



General Line Catalog | 2022

*Proud to be your trusted business partner since 1970*

# Security Communication Solutions

## Modern Intercoms for Any Industry



Check out the latest IXG Commercial Series  
IP Video Intercom with Mobile App → p. 10

**IP Intercoms | Emergency Towers | Multi-Tenant Systems | Mobile Apps**

# Aiphone Solution Showcases

Featuring Out-of-the-Box Ideas to Help Solve Your Customers' Most Challenging Requests

## THE APPLICATION

With a wide selection of Solution Showcases to check out, we are sure to have an application for your customers.

## THE SCENARIO

Each showcase outlines a real-world scenario of different challenges and unique situations that end-users faced.

## THE SOLUTION

For every scenario, there was a reliable security communication solution, either installed or serviced, to meet the various needs.

## THE BENEFITS

Highlighting the project's key points helps you to quickly understand how each end-user benefited from an Aiphone solution.

## THE CONFIGURATION

An example layout of how each system was configured provides a snapshot of how easy it is to install and operate our intercoms.

Learn what others have done with our reliable security intercoms and discover the added value you get when working with our trustworthy brand.

Explore unique possibilities on our Solution Showcase page.

**AIPHONE SOLUTION SHOWCASE**

### Adding Security and Communication to a Health Clinic

**THE SCENARIO**  
A small health clinic with ten exam rooms needed an intercom. They wanted patients, nurses, and doctors in any of the exam rooms to have the ability to call for assistance. A handset for private calls was also required. Each exam room station and the receptionist station simultaneously.

The clinic has a primary entrance used by staff, patients, and for deliveries. This door is locked to control the number of patients in the waiting area. When a patient or anyone else would arrive, they needed a way to call the receptionist for entry. Management also knew, in order to have a more secure facility, their receptionist needed a way to verify patient appointments and determine if visitors could enter the waiting area.

Beyond communication and entry security, the clinic was concerned with germ transference whenever the intercom was touched. They needed something that could initiate a call to the interior stations without having to touch a button. It also had to be durable enough to withstand regular cleaning and daily use while maintaining clear, dependable communication.

**THE SOLUTION**  
Calling and communication was easily accomplished by installing a paging speaker, a handset intercom, and a touchless call sensor into each exam room. Interior master stations at the nurse and reception desks allowed staff at either location to answer calls, as well as communicate between the two areas.

A video door station with a built-in sensor was installed at the primary entrance. It allowed anyone to call for access without having to touch the intercom. Staff could then clearly identify visitors and unlock the door directly from the interior stations.

By selecting touchless sensors, calls were activated while avoiding contact. They did not need frequent sanitizing, which increased the life of the equipment.

Clinic management selected an IP video intercom with touchless sensors to help reduce the spread of germs.

**AIPHONE SOLUTION SHOWCASE**

### Calls could safely be activated while avoiding contact with the intercom in high-touch areas.

**THE BENEFITS**

- Touchless call sensor helped prevent the spread of germs
- Not having to touch the intercom minimized cleaning requirements and extended the system's life
- System allowed open communication using the overhead speaker or private communication with the handset
- Video intercom provided crystal clear audio and video to determine if a patient should be allowed inside
- The nurses and receptionist could communicate more efficiently, improving patient and visitor management
- All-in-one system allowed for easy expansion in the future

**System Configuration Example**

IP Video Intercom System (Configuration shown with 10 Stations)

- IP Video Entrance Station with Touchless Call Sensor x 1
- IP Audio Room Station x 10
- Touchless Call Sensor x 10
- Indoor Speakers x 10
- IP Video Master Station x 2

Entrance, Reception Desk, Nurse Desk, Exam Room

The built-in sensor reduced germs at the high-touch entrance.

Each exam room had a clear, efficient method to call and communicate with staff.

[aiphone.com/glc\\_showcases](http://aiphone.com/glc_showcases)

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Many products can be specified using Aiphone's online system design tool. Plus, it's FREE to sign up.



[quikspec.com](http://quikspec.com)

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# Missing the IS Series? We have you covered.

If your customers are looking for the same features the IS Series had, they will be impressed with our **IX Series Peer-to-Peer IP Video Intercom system.**



IS Series



IX Series

Infinite capacity with unlimited expansion		✓
Hardware and PC software master stations	✓	✓
Cloud-based mobile app		✓
PoE stations	✓	✓
SIP compliant		✓
Bell scheduling	✓	✓
ADA emergency stations	✓	✓
Compatible with wall boxes and towers	✓	✓
ONVIF Profile S integration		✓
UL Listed stations		✓
Paging integration	✓	✓
Scan monitoring	✓	✓
Large touchscreen		✓
Analog components	✓	

# IP Intercoms

## IX Series

Peer-to-Peer IP Video Intercom

→ p. 6



## IX Emergency Series

Peer-to-Peer IP Video Intercom

→ p. 8



## IXG Commercial Series

IP Video Intercom with Mobile App

→ p. 10



## IXG Series

IP Multi-Tenant Video Intercom

→ p. 12



IS Series Components	IX Series Components
IS-CCU	N/A
IS-DV	IX-DV
IS-DVF	IX-DVF
IS-DVF-2RA	IX-DVF-2RA
IS-DVF-2RA-FR	IX-DVF-2RA-FR
IS-DVF-HID	IX-DVF-P
IS-DVF-RP10	IX-DVF-P
IS-IPC	N/A
IS-IPDV	IX-DV
IS-IPDVF	IX-DVF
IS-IPDVF-HID	IX-DVF-P
IS-IPDVF-RP10	IX-DVF-P
IS-IPMV	IX-MV7-B, IX-MV7-HB, IX-MV7-HW-JP, IX-MV7-W
IS-MB	IX-MB
IS-MV	IX-MV7-B, IX-MV7-HB, IX-MV7-HW-JP, IX-MV7-W
IS-PU-UL	N/A (PoE)
IS-RACK	N/A
IS-RCU	N/A
IS-RS	IX-RS-B, IX-RS-W
IS-SCU	N/A
IS-SOFT	IX-SOFT
IS-SS	IX-SSA
IS-SS-2G	IX-SS-2G
IS-SS-2RA-R	IX-SSA-2RA
IS-SS-RA-R	IX-SSA-RA

*If you have an existing equipment list for an upcoming project with the discontinued IS Series, refer to this chart on the left to easily convert the system over to the IX Series.*

Learn more at [aiphone.com/glc\\_ix](http://aiphone.com/glc_ix)



**Box Set** (an unlimited number of stations can be added)



### IXS-HBDV

Box Set with IX-DV, IX-MV7-HB, PoE Switch, and USB Drive

- Preprogrammed equipment is ready to install
- PoE switch allows for easy expansion
- USB drive includes back-up programming files and how-to videos for future growth

**START with a BOX SET**



### IX-DVF-P

Card Access IP Video Door Station

- HID® multiCLASS SE® Proximity Card Reader (requires a third-party host and additional wire to power card reader)
- Fixed camera
- Stainless steel panel
- Vandal resistant
- Flush mount (back box included)

**IP Door Stations: mix and match unlimited** (can call up to 20 master stations at one time)



**IX-EA**  
IP Video Door Station

- Fixed camera
- Plastic chassis
- Surface mount



**IX-DVM**  
Mullion-Mount IP Video Door Station

- Fixed WDR camera
- Built-in touchless call sensor
- Aluminum die cast cover
- Vandal resistant
- Surface mount



**IX-DV**  
IP Video Door Station

- (included with IXS-HBDV box set—available soon)
- Fixed camera
  - Aluminum die cast cover
  - Vandal resistant
  - Surface mount



**IX-DVF**  
IP Video Door Station

- Fixed camera
- Stainless steel panel
- Vandal resistant
- Flush mount (back box included)



**IX-DVF-L**  
IP Video Door Station

- with T-Coil Compatibility
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount (back box included)



**IX-DVF-HW**  
IP Video Door Station with Hand Wave Call Sensor and Surface Mount Box

- Fixed camera
- Stainless steel panel
- Vandal resistant
- Surface mount



**IX-SS-2G**  
IP Audio Door Station

- Stainless steel panel
- Vandal resistant
- Flush mount (fits 2-gang box)



**IX-SSA**  
IP Audio Door Station

- Stainless steel panel
- Vandal resistant
- Flush mount (back box included)

#### Shared Features

- PoE
  - SIP compliant
  - On-board recording with a microSD™ card
  - Weather resistant
- p. 66 to 67



**For more details and compatible door stations, see p. 66–67**



**For emergency stations, wall boxes, and modular towers, see p. 8**

2 wires

Door Strike and Power

## System Features

- Can register to a compatible IP PBX for enhanced SIP features, like call forwarding and dialing out
- Device supervision allows for scheduled or manual system checks to ensure all stations are operating as expected
- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Backward and forward compatible—easily upgrade IX Series systems, now and in the future
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, and IX-SSA stations can power additional device (requires PoE+)
- Peer-to-peer design saves on costly licensing fees and additional servers
- Scalable system is easy to expand—mix and match an infinite (∞) number of door stations, emergency stations, master stations, and sub stations
- Support Tool programming allows for batch configurations
- ONVIF® Profile S video streaming
- Interfaces with Lenel® OnGuard® (7.3 through 7.6 releases) and Software House® CCure 9000 (2.50 through 2.80 releases)
- All Call or group paging
- Priority call queueing
- Prerecorded message paging
- Bell scheduling
- Standard door release wiring to door/emergency station or to IXW-MA for added security

## Calling Capacities

The IX Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, master stations, and sub stations can be part of the same system. However, there is a **calling capacity for each station** (refer to the chart below). Each door station, emergency station, or sub station can call up to 20 master stations or sub stations at one time.

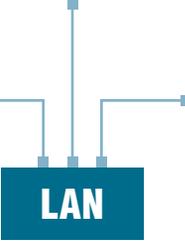
Chart illustrates calling capacities for each station.

	Master Stations	Door Stations, Emergency Stations, or Sub Stations
Address Book	 9,999 stations and 20 recent calls	N/A
Calling	 1 station <b>OR</b> 1 group of up to 50 masters/apps	1 group of up to 20 masters/apps <small>NOTE: An additional group can be called with the optional input or via CGI (does not apply to 2-wire door/sub station adaptors).</small>
Paging	 All stations (All Page) <b>OR</b> groups up to 50 stations	Receive only

**IP Master Stations: mix and match unlimited**  
(can call up to 500 door stations, emergency stations, or master stations)



- Shared Features**
- PoE
  - SIP compliant
  - 7" LCD touchscreen
  - Eight speed dial buttons
  - Camera for two-way video calls
  - On-board recording with a microSD™ card
  - Hands-free communication
  - Wall or desk mount (stand included)
- p. 64



**Sub Stations: mix and match unlimited**



- Shared Features**
- PoE
  - SIP compliant
  - Internal communication with other sub stations, hands-free or handset for privacy
  - 2W external speaker output for communication or paging
  - Wall mount
- p. 64

**Accessories**

**NEW**

**IXW-HWCBP**  
Hand Wave Call Sensor and Surface Mount Box  
→ p. 67

**SBX-2G/A**  
Surface Mount Box for IX-SS-2G  
→ p. 90

**SBX-IXDV30**  
30° Angle Box for IX-DV  
→ p. 91

**IX-MB**  
Mullion Mounting Bracket for IX-DV  
→ p. 91

**SBX-IDVFRA**  
Surface Mount Box for IX-DVF-4 or IX-DVF-P  
→ p. 90

**SBX-IDVFB**  
Surface Mount Box for IX-DVF or IX-SSA  
→ p. 90

**TW-SPL**  
Tower Mounting Plate for IX-DVF or IX-SSA (adapts standard door station to an Aiphone tower or wall box)  
→ p. 71

**IXW-MA**  
IP Relay Adaptor  
→ p. 65

**IPW-1VC**  
2-Wire Network Adaptor  
→ p. 65

**IXW-PBX**  
IP PBX for IX Series  
→ p. 65

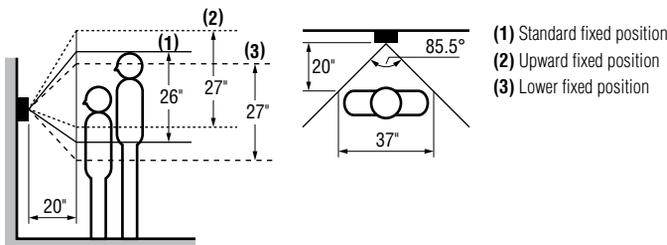
**IPW-VPN**  
VPN Router  
→ p. 65

**Dimensions**

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>IX-DV</b>	8-1/16"	4-1/2"	2-1/16"	205.5	115	52.5
<b>IX-DVF, IX-SSA</b>	10-7/16"	5-7/8"	*	265	150	*
<b>IX-DVF-L, IX-DVF-P</b>	11-11/16"	7"	*	297	178	*
<b>IX-DVF-HW</b>	11-3/4"	7-3/16"	3-3/16"	299	181.9	80.3
<b>IX-DVM</b>	6-7/8"	1-7/8"	1-3/8"	175	48	34
<b>IX-EA</b>	6-5/16"	3-15/16"	1-11/16"	160	100	43.5
<b>IX-SS-2G</b>	4-3/4"	4-3/4"	*	120	120	*
<b>IX-MV7-B, IX-MV7-W</b>	6-3/4"	8-11/16"	1-1/4"	172	220	31.5
<b>IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP</b>	8-1/16"	11"	2-3/16"	204	280	55.5
<b>IX-RS-B, IX-RS-W</b>	7-9/16"	3-9/16"	2-5/8"	192	90	67

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

**Camera View Area**



**Specifications**

- Power Source** PoE (802.3af)
- IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-SSA:** PoE (802.3af) PoE+ (802.3at), or 24V DC—use PS-2420UL
- Network Interface** Hardwired Stations: 10 BASE-T/100 BASE-TX Ethernet (RJ-45)
- Network Protocols** IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS
- Bandwidth Usage** Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring  
Video (H.264): 32Kbps—2,048Kbps
- Video Streaming** ONVIF® Profile S or RTSP
- Communication** Hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex)
- Door Release** IXW-MA: ten programmable dry contacts (four Form C, six Form A), 24V AC/DC, 500mA  
IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-MV7-B, IX-MV7-W, IX-MV7-HB, IX-MV7-HW-JP, IX-SSA: two Form C dry contacts, 24V AC/DC, 1A  
IX-DVM, IX-EA, IX-RS-B, IX-RS-W, IX-SS-2G: Form C dry contact, 24V AC/DC, 1A
- Wire Type** Cat-5e or Cat-6
- Distance** Door Station, Emergency Station, Sub Station, Master Station, or Network Adaptor to Network Node: 330'



# IX Emergency Series Peer-to-Peer IP Video Intercom

## Emergency Wall Boxes, Modular Towers, & Solar Tower Sets (optional)



**WB-CE\*** (cage)

**WB-HE\*** (hood)

ADA Compliant Wall Box

- Beacon/strobe light
  - EMERGENCY lettering
  - UL Listed electrical box
  - Stainless steel enclosure with slim, 4" depth
  - Wall mount
- p. 69

**WB-CA\*** (cage) **WB-HA\*** (hood)

ADA Compliant Wall Box

- Beacon/strobe light
  - ASSISTANCE lettering
  - UL Listed electrical box
  - Stainless steel enclosure with slim, 4" depth
  - Wall mount
- p. 69

### TWS-Z4

Zone 4 Solar Tower Set

- Includes WB-HE wall box with Sun Surveillance's solar panel and mounting components
- Wireless solar solution powers wall box beacon/strobe and emergency call station
- Equipped with one solar panel for zones rated 4.0+

### TWS-Z2 (not shown)

Zone 2 Solar Tower Set

- Same as TWS-Z4, but equipped with two solar panels for zones rated 2.0-3.9

### TWS-Z1 (not shown)

Zone 1 Solar Tower Set

- Same as TWS-Z4, but equipped with three solar panels for zones rated 1.0-1.9
  - Direct-burial mounting
- p. 69

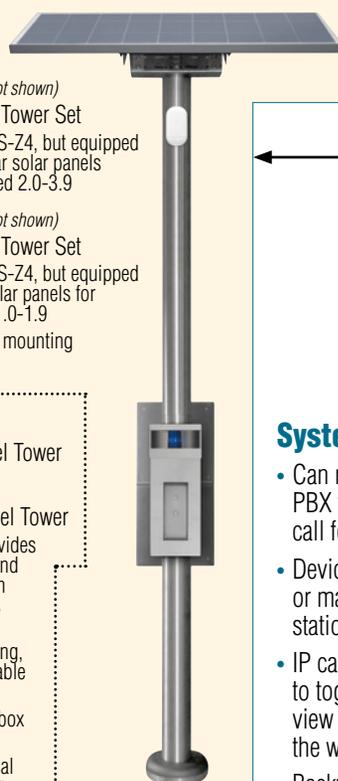
**TW-20B/A\***

2-Module Mid-Level Tower

**TW-23B/A\***

3-Module High-Level Tower

- Modular design provides lower freight costs and easier assembly than non-modular towers
  - Two sizes available with choice of lettering, custom colors available upon request
  - UL Listed electrical box
  - CCTV camera arm module with universal pipe threading (1.50" NPT threading x 1" long)
  - Includes accessory mounting hardware with external threads (male: M3 x .05, 1-gang spacing pattern)
  - Large access panel on each module
  - Zinc-treated steel with powder coating
- p. 70



**PS-POE**  
PoE Splitter  
→ p. 68

PoE+  
(required)  
Network  
Switch

\*Power is required for the beacon/strobe light on wall boxes and towers – use PS-POE splitter to draw power from an IX Series station's PoE passthrough

## IP Emergency Stations: mix and match unlimited

(can call up to 20 sub stations or master stations at one time)



### IX-DVF-2RA

ADA Compliant IP Video Emergency Station with Two Call Buttons

### IX-DVF-RA

ADA Compliant IP Video Emergency Station

### IX-SSA-2RA

ADA Compliant IP Video Emergency Station with Two Call Buttons

### IX-SSA-RA

ADA Compliant IP Audio Emergency Station

#### Shared Features:

- PoE (with passthrough port) or 24V DC
  - SIP compliant
  - On-board recording with microSD™ card
  - Lettering and braille signage
  - LED call status indicator
  - Two Form C relay outputs
  - Stainless steel panel
  - Weather and vandal resistant
  - Flush mount (back box included)
- p. 68

Stations are also available with French labels:

### IX-DVF-2RA-FR

→ p. 68

### IX-SSA-2RA-FR

→ p. 68

### IX-DVF-RA-FR

→ p. 68

### IX-SSA-RA-FR

→ p. 68

## System Features

- Can register to a compatible IP PBX for enhanced SIP features, like call forwarding and dialing out
- Device supervision allows for scheduled or manual system checks to ensure all stations are operating as expected
- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Backward and forward compatible—easily upgrade IX Series systems, now and in the future
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, and IX-SSA-RA stations can power additional device (requires PoE+)
- Peer-to-peer design saves on costly licensing fees and additional servers
- Scalable system is easy to expand—mix and match an infinite (∞) number of door stations, emergency stations, master stations, and sub stations
- Support Tool programming allows for batch configurations
- ONVIF® Profile S video streaming
- Interfaces with Lenel® OnGuard® (7.3 through 7.6 releases) and Software House® CCure 9000 (2.50 through 2.80 releases)
- All Call or group paging
- Priority call queueing
- Prerecorded message paging
- Bell scheduling
- Standard door release wiring to door/emergency station or to IXW-MA for added security

**IP Master Stations: mix and match unlimited**  
(can call up to 500 door stations, emergency stations, or master stations)



- Shared Features**
- PoE
  - SIP compliant
  - 7" LCD touchscreen
  - Eight speed dial buttons
  - Camera for two-way video calls
  - On-board recording with a microSD™ card
  - Hands-free communication
  - Wall or desk mount (stand included)
- p. 64

**IX-SOFT**  
PC Master Station Software  
(also available in bundles of 3, 5, and 10 USB dongles)  
→ p. 64

**Sub Stations: mix and match unlimited**



- Shared Features**
- PoE
  - SIP compliant
  - Internal communication with other sub stations, hands-free or handset for privacy
  - 2W external speaker output for communication or paging
  - Wall mount
- p. 64



**Accessories**



**IXW-HWCBP**  
Hand Wave Call Sensor and Surface Mount Box  
→ p. 67



**MB-RF1**  
Retrofit Mounting Bracket for IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA (adapts emergency station to an existing Code Blue® or Talk-A-Phone® tower or wall box)  
→ p. 92



**SBX-IDVFA**  
Surface Mount Box for IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA  
→ p. 90



**TW-MKL**  
L-Bolt Mounting Kit for Modular Towers (an L-bolt mounting kit is required for tower installation – TW-MKL is recommended)  
→ p. 71



**IXW-MA**  
IP Relay Adaptor  
→ p. 65



**IPW-1VC**  
2-Wire Network Adaptor  
→ p. 65



**IXW-PBX**  
IP PBX for IX Series  
→ p. 65



**IPW-VPN**  
VPN Router  
→ p. 65

**Dimensions**

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
WB-CA, WB-CE	26"	10-9/16"	4"	660	203	102
WB-HA, WB-HE	27"	10-13/16"	4"	686	203	102
IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, IX-SSA-RA	11-11/16"	7"	*	297	178	*
IX-MV7-B, IX-MV7-W	6-3/4"	8-11/16"	1-1/4"	172	220	31.5
IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP	8-1/16"	11"	2-3/16"	204	280	55.5
IX-RS-B, IX-RS-W	7-9/16"	3-9/16"	2-5/8"	192	90	67
TW-20B/A	67-1/4"	10"	8"	1708	254	203
TW-23B/A	100-1/4"	10"	8"	2546	254	203

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

**Calling Capacities**

The IX Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, master stations, and sub stations can be part of the same system. However, there is a **calling capacity for each station** (refer to the chart on page 6). Each door station, emergency station, or sub station can call up to 20 master stations or sub stations at one time.

**Specifications**

**Power Source** PoE (802.3af)

IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, IX-SSA-RA: PoE (802.3af), PoE+ (802.3at), or 24V DC—use PS-2420UL

**Network Interface** Hardwired Stations: 10 BASE-T/100 BASE-TX Ethernet (RJ-45)

**Network Protocols** IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS

**Bandwidth Usage** Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring

Video (H.264): 32Kbps—2,048Kbps

**Video Streaming** ONVIF® Profile S or RSTP

**Communication** Hands-free (full-duplex, half-duplex with IX Series stations), push-to-talk (simplex), or handset (full-duplex)

**Door Release** IXW-MA: ten programmable dry contacts (four Form C, six Form A), 24V AC/DC, 500mA

IX-DVF-2RA, IX-DVF-RA, IX-MV7-B, IX-MV7-W, IX-MV7-HB, IX-MV7-HW-JP, IX-SSA-2RA, IX-SSA-RA: two Form C dry contacts, 24V AC/DC, 1A

IX-RS-B, IX-RS-W: Form C dry contact, 24V AC/DC, 1A

**Wire Type** Cat-5e or Cat-6

**Distance** Door Station, Emergency Station, Sub Station, Master Station, or Network Adaptor to Network Node: 330'

## IP Door Stations: mix and match unlimited (can call up to 20 master stations at one time)



- IX-EA**  
IP Video Door Station
- Fixed camera
  - Plastic chassis
  - Surface mount



- IX-DVM**  
Mullion-Mount IP Video Door Station
- Fixed WDR camera
  - Built-in touchless call sensor
  - Aluminum die cast cover
  - Vandal resistant
  - Surface mount



- IX-DV**  
IP Video Door Station
- Fixed camera
  - Aluminum die cast cover
  - Vandal resistant
  - Surface mount



- IX-DVF**  
IP Video Door Station
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount (back box included)



- IX-DVF-L**  
IP Video Door Station with T-Coil Compatibility
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount (back box included)



- IX-DVF-HW**  
IP Video Door Station with Hand Wave Call Sensor and Surface Mount Box
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Surface mount



- IX-DVF-P**  
Card Access IP Video Door Station
- HID® multiCLASS SE® Proximity Card Reader (requires a third-party host and additional wire to power card reader)
  - Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount (back box included)



- IX-SS-2G**  
IP Audio Door Station
- Stainless steel panel
  - Vandal resistant
  - Flush mount (fits 2-gang box)



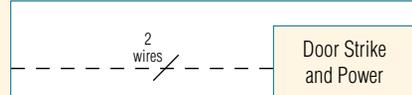
- IX-SSA**  
IP Audio Door Station
- Stainless steel panel
  - Vandal resistant
  - Flush mount (back box included)

**Shared Features**

- PoE
  - On-board recording with a microSD™ card
  - Weather resistant
- p. 66 to 67



**For more details and compatible door stations, see p. 66–67**



## System Features

- Device supervision allows for scheduled or manual system checks to ensure all stations are operating as expected
- IP camera integration makes it easy to toggle between the close-up view of the video door station and the wide view of an IP camera
- Transfer calls between multiple stations based on a schedule or time delay
- PoE passthrough on IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, and IX-SSA stations can power additional device (requires PoE+)
- Peer-to-peer design saves on costly licensing fees and additional servers
- Scalable system is easy to expand—mix and match an infinite (∞) number of door stations, emergency stations, master stations, and sub stations
- Support Tool programming allows for batch configurations
- ONVIF® Profile S video streaming
- All Call or group paging
- Priority call queueing
- Standard door release wiring to door/emergency station or to IXW-MA for added security

## Calling Capacities

The IX Series has an unlimited station capacity, where an infinite number of door stations, emergency stations, master stations, and sub stations can be part of the same system. However, there is a **calling capacity for each station** (refer to the chart below). Each door station, emergency station, or sub station can call up to 20 master stations or sub stations at one time.

*Chart illustrates calling capacities for each station.*

	Master Stations	Door Stations, Emergency Stations, or Sub Stations
Address Book	9,999 stations and 20 recent calls	N/A
Calling	1 station <b>OR</b> 1 group of up to 50 masters/apps	1 group of up to 20 masters/apps <i>NOTE: An additional group can be called with the optional input or via CGI (does not apply to 2-wire door/sub station adaptors).</i>
Paging	All stations (All Page) <b>OR</b> groups up to 50 stations	Receive only

**IP Master Stations: mix and match unlimited**  
(can call up to 500 door stations, emergency stations, or master stations)



**IX-MV7-HB-L**  
IP Video Master Station with T-Coil Supported Handset

**IX-MV7-HW-JP**  
IP Video Master Station (TAA-compliant)

**IX-MV7-B**  
IP Video Master Station

**IX-MV7-W**  
IP Video Master Station

**Mobile App Gateway: mix and match unlimited**



**IXGW-GW**  
IXG Series Mobile App Gateway Adaptor (required for AIPHONE IXG App—service fee will apply)  
• PoE  
• iOS® or Android®  
• Up to eight mobile apps per tenant  
→ p. 73

- Visitor screening
- Two-way communication
- Audio/Video recording
- Remote door release



**IX-MV7-HB**  
IP Video Master Station

- Shared Features
- PoE
  - 7" LCD touchscreen
  - Eight speed dial buttons
  - Camera for two-way video calls
  - On-board recording with a microSD™ card
  - Hands-free communication
  - Wall or desk mount (stand included)  
→ p. 64

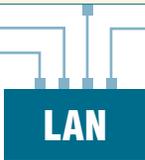
**Sub Stations: mix and match unlimited**



**IX-RS-B**  
Audio Room Sub Station

**IX-RS-W**  
Audio Room Sub Station

- Shared Features
- PoE
  - Internal communication with other sub stations, hands-free or handset for privacy
  - 2W external speaker output for communication or paging
  - Wall mount  
→ p. 64



**Accessories**



**IXW-HWCBP**  
Hand Wave Call Sensor and Surface Mount Box  
→ p. 67



**SBX-2G/A**  
Surface Mount Box for IX-SS-2G  
→ p. 90



**SBX-IXDVB30**  
30° Angle Box for IX-DV  
→ p. 91



**IX-MB**  
Mullion Mounting Bracket for IX-DV  
→ p. 91



**SBX-IDVFRA**  
Surface Mount Box for IX-DVF-4 or IX-DVF-P  
→ p. 90



**SBX-IDVF**  
Surface Mount Box for IX-DVF or IX-SSA  
→ p. 90



**TW-SPL**  
Tower Mounting Plate for IX-DVF or IX-SSA (adapts standard door station to an Aiphone tower or wall box)  
→ p. 71



**IXW-MA**  
IP Relay Adaptor  
→ p. 65



**IPW-1VC**  
2-Wire Network Adaptor  
→ p. 65

**Dimensions**

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>IX-DV</b>	8-1/16"	4-1/2"	2-1/16"	205.5	115	52.5
<b>IX-DVF, IX-SSA</b>	10-7/16"	5-7/8"	*	265	150	*
<b>IX-DVF-L, IX-DVF-P</b>	11-11/16"	7"	*	297	178	*
<b>IX-DVF-HW</b>	11-3/4"	7-3/16"	3-3/16"	299	181.9	80.3
<b>IX-DVM</b>	6-7/8"	1-7/8"	1-3/8"	175	48	34
<b>IX-EA</b>	6-5/16"	3-15/16"	1-11/16"	160	100	43.5
<b>IX-SS-2G</b>	4-3/4"	4-3/4"	*	120	120	*
<b>IX-MV7-B, IX-MV7-W</b>	6-3/4"	8-11/16"	1-1/4"	172	220	31.5
<b>IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP</b>	8-1/16"	11"	2-3/16"	204	280	55.5
<b>IX-RS-B, IX-RS-W</b>	7-9/16"	3-9/16"	2-5/8"	192	90	67

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

**Specifications**

**Power Source** PoE (802.3af)

IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-SSA: PoE (802.3af)  
PoE+ (802.3at), or 24V DC—use PS-2420UL

**Network Interface** 10 BASE-T/100 BASE-TX Ethernet (RJ-45)

Mobile App: WiFi, 3G/4G/5G

**Network Protocols** IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS

**Bandwidth Usage** Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring

Video (H.264): 32Kbps—2,048Kbps

**Video Streaming** ONVIF® Profile S or RTSP

**Communication** Hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex)

**Door Release** IXW-MA: ten programmable dry contacts (four Form C, six Form A), 24V AC/DC, 500mA

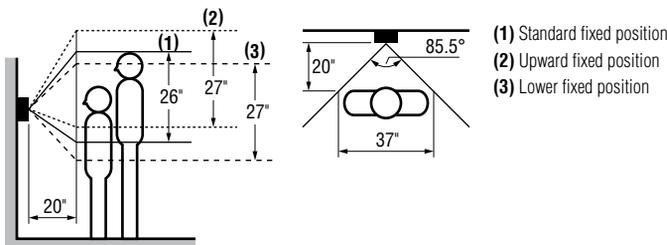
IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P, IX-MV7-B, IX-MV7-W, IX-MV7-HB, IX-MV7-HW-JP, IX-SSA: two Form C dry contacts, 24V AC/DC, 1A

IX-DVM, IX-EA, IX-RS-B, IX-RS-W, IX-SS-2G: Form C dry contact, 24V AC/DC, 1A

**Wire Type** Cat-5e or Cat-6

**Distance** Door Station, Emergency Station, Sub Station, Master Station, or Network Adaptor to Network Node: 330'

**Camera View Area**



## Entrance Station: mix and match up to 9,999



### IXG-DM7-HID

IP Video Entrance Station

- Modern and simple user touchscreen interface
- PoE
- Programmable inputs and outputs
- On-board recording with a microSD™ card
- Rugged IP65 and IK08 ratings
- HD camera
- Stainless steel panel
- Flush mount (*back box sold separately*) → p. 72

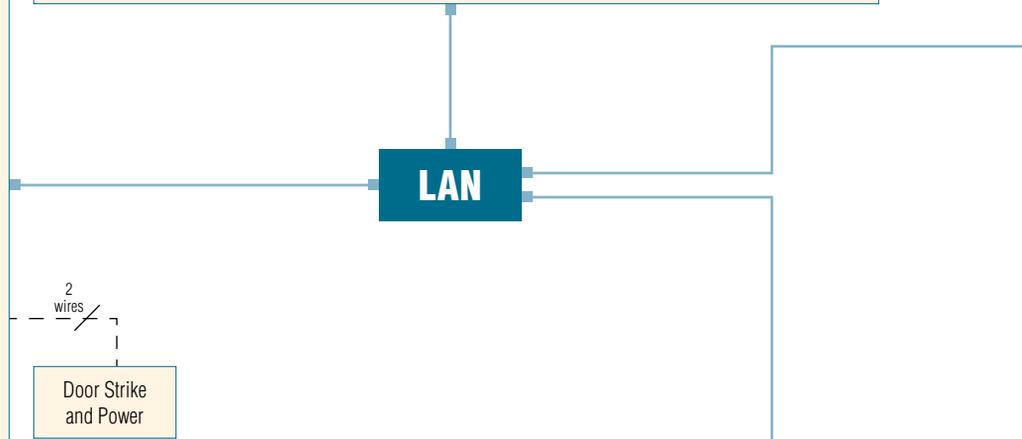
## Guard Station: mix and match up to 9,999



### IXG-MK

IP Video Guard Station

- 7" touchscreen
- PoE
- Programmable inputs and outputs
- On-board recording with a microSD™ card
- Video communication with other guard stations
- Wall or desk mount (*stand included*) → p. 72



## System Features

- Cloud-based app (service fee will apply)
- All stations are PoE
- Touchscreen entrance panel
- Updates can be programmed remotely
- Physical video guard station
- Compatible with select IX Series stations

## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>IXG-2C7</b>	5-13/16"	8-15/16"	1"	148	227	25.3
<b>IXG-DM7-BOX</b>	12-1/2"	6-1/8"	2-3/8"	317	156	60
<b>IXG-DM7-HID</b>	13-11/16"	7-3/16"	*	347	182	*
<b>IXG-FMK-2C7</b>	7-13/16"	11-7/16"	1-7/8"	199	290	47
<b>IXG-MK</b>	8-1/16"	11"	2-3/16"	204	280	55.5
<b>IXGW-GW</b>	4-1/4"	8-1/4"	2-3/8"	108.5	210	61
<b>IXGW-LC</b>	4-1/4"	8-1/4"	2-3/8"	108.5	210	61
<b>SBX-IXGDM7</b>	13-3/4"	7-5/16"	3-1/16"	349	185.9	78

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

## Tenant Station: mix and match up to 9,999



**IXG-2C7-L**  
IP Video Tenant Station  
with T-Coil Compatibility

**NEW**



**IXG-2C7**  
IP Video Tenant Station

### Shared Features

- 7" touchscreen
  - PoE
  - Programmable inputs and outputs
  - On-board recording with a microSD™ card
  - Up to eight stations within an apartment or suite
  - Wall mount
- p. 73

## Accessories



**IXG-DM7-BOX**  
Flush Mount Back Box  
for IXG-DM7-HID  
→ p. 72



**SBX-IXGDM7**  
Surface Mount Back  
Box for IXG-DM7-HID  
→ p. 72



**IXGW-LC-RY20**  
Elevator Lift Control  
and Relay Adaptor  
→ p. 73



**IXGW-LC**  
Elevator Lift  
Control Adaptor  
→ p. 73



**MCW-S/B**  
Desk Stand for IXG-2C7  
or IXG-2C7-L  
(mounting hardware included)  
→ p. 72



**IXG-FMK-2C7**  
Flush Mount Kit for  
IXG-2C7 or IXG-2C7-L  
→ p. 73



**GT-RY**  
External  
Signaling  
Relay for  
IXG-2C7  
→ p. 60

## Mobile App Gateway: mix and match up to 9,999



**IXGW-GW**  
IXG Series Mobile App Gateway Adaptor  
(required for AIPHONE IXC App – service fee will apply)

- PoE
  - iOS® or Android®
  - Up to eight mobile apps per tenant
- p. 73



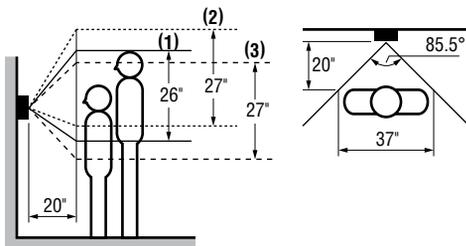
- Visitor screening
- Two-way communication
- Audio/Video recording
- Remote door release

## Compatible with IX Series Systems



See p. 6–9

## Camera View Area



- (1) Standard fixed position  
(2) Upward fixed position  
(3) Lower fixed position

## Specifications

- Power Source** PoE (802.3af)
- Network Interface** 10 BASE-T/100 BASE-TX Ethernet (RJ-45)  
Mobile App: WiFi, 3G/4G
- Network Protocols** IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS
- Bandwidth Usage** Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring  
Video (H.264): 32Kbps–2,048Kbps
- Video Streaming** ONVIF® Profile S or RTSP
- Communication** Hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex)
- Door Release** IXG-DM7-HID: two programmable Form C dry contacts (Relay 1: 24V AC/DC, 3A Relay 2: 24V AC/DC, 500mA)  
IXG-MK: two programmable Form C dry contacts, 24V AC/DC, 1A  
IXGW-LC, IXGW-LC-RY20: 20 programmable Form C dry contacts, 24V AC/DC, 500mA
- Wire Type** Cat-5e or Cat-6
- Distance** Entrance Station, Tenant Station, or Guard Station to Network Node: 330'

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# Video Intercoms

## JP Series

Hands-Free/Handset Video Intercom with 7" Touchscreen

→ p. 16



## JO Series

Hands-Free Video Intercom with 7" Screen

→ p. 18



## AX Series

Hands-Free Video Intercom with Integration

→ p. 20



## KB Series

Handset Video Intercom with Tilt

→ p. 22



**Box Sets: select 1** (up to 3 door stations and 7 sub master stations can be added)



**JPS-4AED**  
Box Set with JP-DA, JP-4MED, and PS-2420UL

**JPS-4AEDV**  
Box Set with JP-DV, JP-4MED, and PS-2420UL

**JPS-4AEDF**  
Box Set with JP-DVF, JP-4MED, and PS-2420UL

**START with a BOX SET**

**Master Station**

**Removable media storage!**  
SD\* or SDHC\* card can store up to 1,000 calls!



\*Not included



**JP-4MED**  
Video Master Station  
(included with all JPS box sets)

- 7" LCD touchscreen
- Picture Memory
- Removable media storage (memory card not included)
- Hands-free communication with handset for privacy

→ p. 76

Cat-5e/6 wire  
N/A from Aiphone  
(max. 650' between master and adaptor)

**Door Stations: mix and match up to 4** (only up to 3 if a box set is selected)



**JP-DA**  
Video Door Station  
(included with JPS-4AED box set)

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 77



**JP-DV**  
Video Door Station  
(included with JPS-4AEDV box set)

- Zinc die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 77



**JP-DVF**  
Video Door Station  
(included with JPS-4AEDF box set)

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

→ p. 77



**JP-DVF-HID**  
Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

→ p. 77



**JP-DVF-RP10**  
Card Access Video Door Station

- HID® multiCLASS SE® Proximity Card Reader
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

→ p. 77



**GT-D**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 58

2 wires  
Aiphone #871802  
(max. 330')

2 wires

2 wires  
Aiphone #871802  
(max. 33')

Door Strike and Power

**PS-2420UL**  
(included with all JPS box sets)  
24V DC, 2A  
Power Supply  
→ p. 95

## Door Station Features

- Digital PanTilt and Zoom camera eliminates blind spots with 170° wide angle lens (video door stations)
- Card access door stations available

## Master Station Features

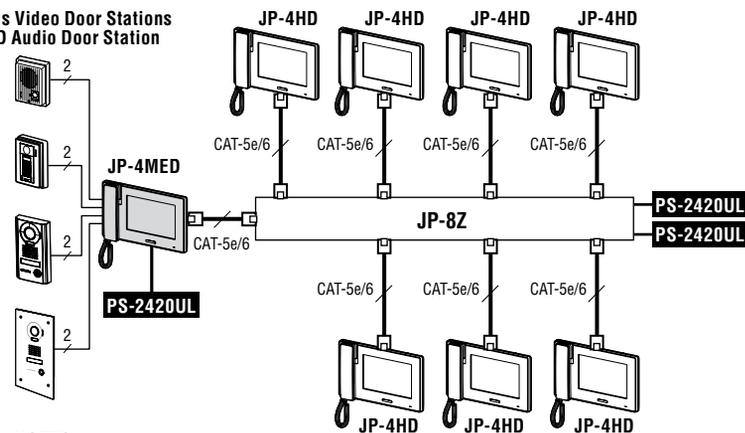
- 7" LCD touchscreen
- Hands-free or handset communication
- Camera position and zoom can be set for call-in
- Includes two N/O or N/C door release contacts (add RY-3DL for three or four doors)
- Camera can be adjusted to compensate for bright illumination
- Picture memory records up to 20 calls to internal memory and max. 1,000 calls to removable SD/SDHC card (not included)
- Entry can be monitored via the master and sub master stations
- One output to control a secondary device like a light, gate, or additional door
- Video out to DVR via supplied connector

## System Features

- Convenient box sets are complete with a master station, each with a different door station, and a power supply (up to three more door stations and seven sub master stations can be added for a full 4x8 system)
- Homerun or daisy chain wiring options (see installation manual for details)

## Wiring

JP Series Video Door Stations or GT-D Audio Door Station



### NOTES:

1. Total cumulative wiring distance between master and sub master stations is 980' (300m)
2. Master station (JP-4MED) requires one power supply
3. Up to four sub master stations (JP-4HD) can use one power supply (use two power supplies for additional sub master stations)

### Distribution Adaptor (required for homerun wiring method)



**JP-8Z**  
Distribution Adaptor  
for Video Sub  
Master Stations  
→ p. 76

2 wires  
Aiphone #871802  
(max. 33')



**PS-2420UL**  
24V DC, 2A  
Power Supply  
→ p. 95

2 wires  
Aiphone #871802  
(max. 33')



**PS-2420UL**  
24V DC, 2A  
Power Supply  
→ p. 95

Cat-5e/6 wire  
N/A from  
Aiphone  
(max. 165'  
between adaptor  
and sub masters)

### Sub Master Station: select up to 7 (optional)



**JP-4HD**  
Video Sub Master Station  
• 7" LCD touchscreen  
• Hands-free communication  
with handset for privacy  
→ p. 76



**JP-4HD** → p. 76



**JP-4HD** → p. 76



**JP-4HD** → p. 76



**JP-4HD** → p. 76

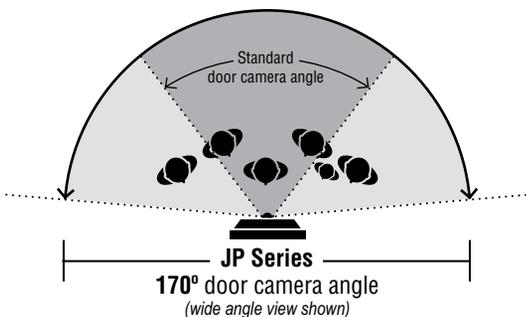


**JP-4HD** → p. 76



**JP-4HD** → p. 76

### Camera View Area



### Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>GT-D</b>	5-1/8"	3-7/8"	1-1/8"	130	98	28.5
<b>JP-4MED, JP-4HD</b>	5-11/16"	10-1/16"	1-7/8"	145	255	48
<b>JP-8Z</b>	4-5/16"	4-13/16"	2-3/8"	109	123	61
<b>JP-DA</b>	5-1/16"	3-13/16"	1-3/16"	129	97	30.5
<b>JP-DV</b>	6-13/16"	3-7/8"	1-1/16"	173	98	27
<b>JP-DVF</b>	8-1/4"	5-5/16"	*	209	135	*
<b>JP-DVF-HID, JP-DVF-RP10</b>	11-11/16"	7"	*	297	178	*

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

### Accessories



**AC-10S**  
Stand-Alone Access  
Control Keypad  
(body style  
matches JP-DV)  
→ p. 89



**KAW-D**  
30° Angle Box  
for JP-DA  
→ p. 91



**MKW-P**  
1-Gang Mounting  
Plate for JP-DV  
→ p. 92



**KMB-45**  
45° Mullion  
Mounting Bracket  
for GT-D or JP-DA  
→ p. 91



**JK-MB**  
Mullion Mounting  
Bracket for JP-DV  
→ p. 91



**SBX-DV30**  
30° Angle Box  
for JP-DV  
→ p. 91



**SBX-DVF**  
Surface Mount  
Box for JP-DVF  
→ p. 90



**SBX-IDVFRA**  
Surface Mount Box  
for JP-DVF-HID  
or JP-DVF-RP10  
→ p. 90



**SBX-ACE**  
Surface Mount Box for  
GT-D or JP-DA and one  
Access Control Device  
→ p. 90



**JPW-BA**  
Long Distance/  
CCTV Adaptor  
for Door Stations  
→ p. 76



**EL-12S**  
Electric Door  
Strike for  
Wood Frames  
(requires  
PT-1210NA)  
→ p. 89



**RY-1824L**  
Form C Door  
Release Relay  
(one per door –  
max. two per system)  
→ p. 89



**RY-3DL**  
Selective Door  
Release Adaptor  
(for three or  
four doors –  
four doors require  
one RY-3DL and  
one RY-1824L)  
→ p. 89



**IER-2**  
Call  
Extension  
Speaker  
→ p. 89



**RY-ES**  
External  
Signaling  
Relay  
→ p. 94



**MCW-S/B**  
Desk Stand for  
JP-4MED or JP-4HD  
(mounting hardware included)  
→ p. 92

### Specifications

**Power Source** 24V DC—use PS-2420UL

**Communication** Hands-free (VOX) or handset (full-duplex)

**Door Release** Two N/O or N/C dry contacts, 24V AC/DC, 500mA (use RY-1824L or RY-3DL for larger contact rating)

**Wire Type** Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Master Station to Adaptor: Cat-5e or Cat-6

Adaptor to Sub Master Station: Cat-5e or Cat-6

**Distance** Door Station to Master Station: 330'

Master Station to Distribution Adaptor: 650'

Distribution Adaptor to Sub Master Station: 165'

Door Station to Long Distance/CCTV Adaptor: 650'

Long Distance/CCTV Adaptor to Master Station: 330'

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

Power Supply to Distribution Adaptor: 16' (22 AWG) 33' (18 AWG)

Total Cumulative Between Inside Stations: 980'

**Box Sets: select 1** (a JO-DV and a JO-1FD can be added to any box set – up to 8 apps can be added to the app-compatible sets)

**Box Sets with App-Compatible Master Station**



- JOS-1AW** Box Set with JO-DA, JO-1MDW, and PS-1820UL
- JOS-1VW** Box Set with JO-DV, JO-1MDW, and PS-1820UL
- JOS-1FW** Box Set with JO-DVF, JO-1MDW, and PS-1820UL

**Box Sets (no app capability)**



- JOS-1A** Box Set with JO-DA, JO-1MD, and PS-1820UL
- JOS-1V** Box Set with JO-DV, JO-1MD, and PS-1820UL
- JOS-1F** Box Set with JO-DVF, JO-1MD, and PS-1820UL

**START with a BOX SET**

**Door Stations: select a box set (see left) and a single JO-DV for the second door station option**



- JO-DA** Video Door Station (included with JOS-1A and JOS-1AW box sets – not sold separately)
  - Plastic chassis
  - Weather resistant
  - Surface mount
 → p. 75
- JO-DV** Video Door Station (included with JOS-1V and JOS-1VW box sets – also sold separately)
  - Zinc die cast cover
  - Weather and vandal resistant
  - Surface mount
 → p. 75
- JO-DVF** Video Door Station (included with JOS-1F and JOS-1FW box sets – not sold separately)
  - Stainless steel panel
  - Weather and vandal resistant
  - Flush mount (back box included)
 → p. 75

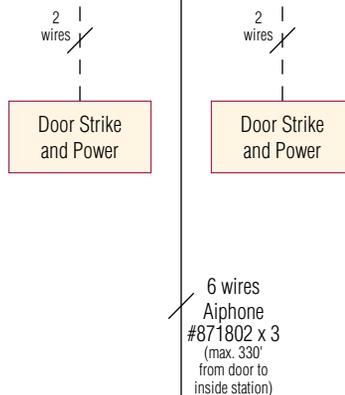
2 wires from each station/adaptor  
Aiphone #871802

**2-Door Station Adaptor** (required for 2 door stations)



**JO-2D** Two-Door Station Adaptor → p. 75

**NOTE:** Use JO-DV for the second door station, which is sold separately.



**PS-1820UL** (included with all JOS box sets)  
18V DC, 2A Power Supply  
→ p. 95

**Expansion Station (optional)**



**JO-1FD** Video Expansion Station

- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication

 → p. 74

**IMPORTANT WIRING NOTICE:** When the optional JO-1FD is part of the system, it must be wired in between the door station and master station (as shown in the wiring example **WITH** JO-1FD).

**Door Station Features**

- Fixed camera provides clear visitor identification

**Master Station Features**

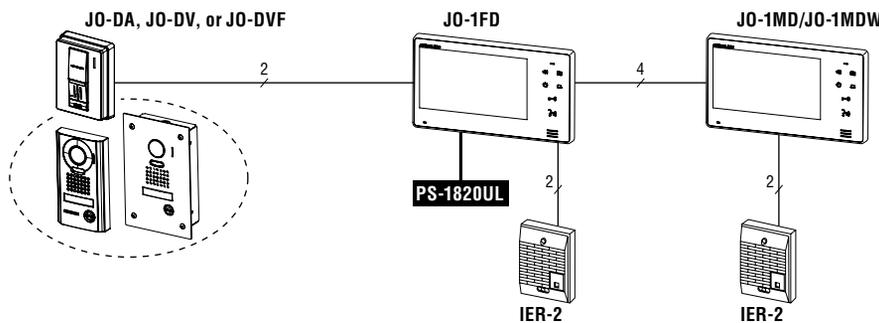
- Compact, attractive design complements most interiors
- Hands-free or push-to-talk communication
- N/O door release contact
- Screen brightness control
- Video monitoring
- 1 output to control a secondary device like a light or gate

**System Features**

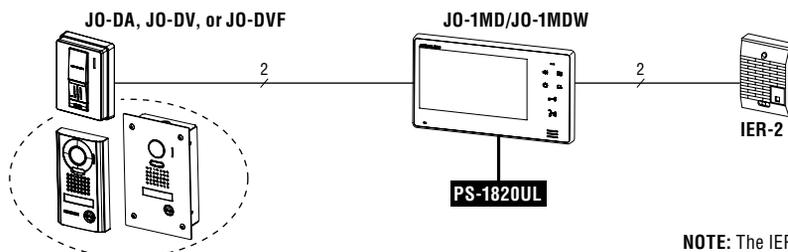
- Up to 8 mobile apps can be connected (requires JO-1MDW and 2.4Ghz WiFi connection)
- Convenient box sets are complete with a master station, each with a different door station, and a power supply (1 expansion master station can be added for a full 1x2 system)
- Simple daisy chain wiring

**Wiring**

**Example WITH JO-1FD**



**Example WITHOUT JO-1FD**



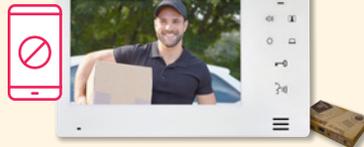
**NOTE:** The IER-2 is optional.

**Master Station: select 1** (none if a box set is selected)

**JO-1MDW**

App-Compatible Video Master Station  
(included with JOS-1AW, JOS-1VW, and JOS-1FW box sets – also sold separately)

- Connect up to eight free mobile apps
- 7" LCD touchscreen
- Built-in expandable memory for recording calls
- Hands-free or push-to-talk communication → p. 74


**JO-1MD**

Video Master Station  
(included with JOS-1A, JOS-1V, and JOS-1F box sets – not sold separately and not app-compatible)

- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication → p. 74

**IMPORTANT WIRING NOTICE:**

When the optional JO-1FD is not part of the system, the door station, power supply, and door strike all wire directly to the JO-1MD or JO-1MDW (as shown in the wiring example **WITHOUT** JO-1FD).

4 wires  
Aiphone  
#871804  
(max. 330')

2 wires\*  
Aiphone  
#871802  
(max. 330')

\*Two additional wires are required for door release

**Virtual Expansion Station Mobile App**

**Intercom App Type B**  
Virtual Expansion Station Mobile App for Smartphones and Tablets  
(requires JO-1MDW)

- Up to eight free mobile apps per system
- Calls can be answered and doors can be unlocked while on-the-go

- Hands-free or push-to-talk communication
- Available on Google Play™ (Google Play is a trademark of Google LLC.)
- Available on the App Store™ (App Store is a service mark of Apple Inc.) → p. 74

**Accessories**


**AC-10S**  
Stand-Alone Access Control Keypad  
(body style matches JO-DV)  
→ p. 89



**KAW-D**  
30° Angle Box for JO-DA  
→ p. 91



**MKW-P**  
1-Gang Mounting Plate for JO-DV  
→ p. 92



**KMB-45**  
45° Mullion Mounting Bracket for JO-DA  
→ p. 91



**JK-MB**  
Mullion Mounting Bracket for JO-DV  
→ p. 91



**SBX-DV30**  
30° Angle Box for JO-DV  
→ p. 91



**SBX-DVF**  
Surface Mount Box for JO-DVF  
→ p. 90



**SBX-ACE**  
Surface Mount Box for JO-DA and one Access Control Device  
→ p. 90



**EL-12S**  
Electric Door Strike for Wood Frames  
(requires PT-1210NA)  
→ p. 89



**RY-1824L**  
Form C Door Release Relay  
→ p. 89



**IER-2**  
Call Extension Speaker  
→ p. 89



**RY-ES**  
External Signaling Relay  
→ p. 94

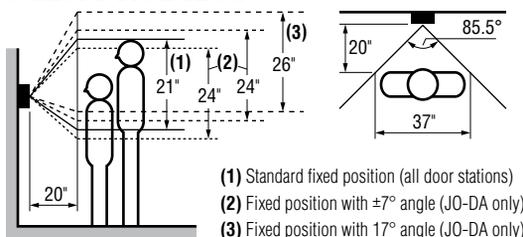


**MCW-S/B**  
Desk Stand for JO-1MD, JO-1MDW, or JO-1FD (mounting hardware included)  
→ p. 92

**Dimensions**

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>JO-1MD, JO-1FD</b>	5-1/8"	9-1/16"	13/16"	130	230	21
<b>JO-1MDW</b>	6-1/8"	8-1/4"	1-1/16"	155	210	27
<b>JO-DA</b>	5-1/16"	3-13/16"	1-3/8"	129	97	35.5
<b>JO-DV</b>	6-13/16"	3-7/8"	1-1/16"	173	98	26.8
<b>JO-DVF</b>	8-1/4"	5-5/16"	*	209	135	*

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

**Camera View Area**

**Specifications**

**Power Source** 18V DC—use PS-1820UL

**Communication** Hands-free (VOX) or push-to-talk (simplex)

**Door Release** JO-1MDW: N/O dry contact, 24V AC/ DC, 1A

JO-1MD, JO-1FD: N/O dry contact, 24V AC/DC, 500mA  
(use RY-1824L for larger contact rating)

**Wire Type** Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804

Expansion Station to Master Station (with door release): 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802

**Distance** Door Station to Master Station: 165' (22 AWG) 330' (18 AWG)

Door Station to Expansion Station:  
165' (22 AWG) 330' (18 AWG)

Expansion Station to Master Station:  
165' (22 AWG) 330' (18 AWG)

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

# AX Series Hands-Free Video Intercom with Integration

Video Intercoms

### Door Stations & Indoor Sub Stations: mix and match up to 120



**AX-DV**  
Video Door Station

- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 53



**AX-DVF**  
Video Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

→ p. 53



**AX-DV-P**  
Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount

→ p. 53



**AX-DVF-P**  
Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

→ p. 53



**AX-DM**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 53



**IF-DA**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 62



**IE-JA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 62



**IE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 62



**IE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 62



**AX-A**  
Audio Sub Station

- Surface mount

→ p. 54



**AX-AN**  
Privacy Audio Sub Station

- Privacy button
- Surface mount

→ p. 54



**AX-B**  
Audio Sub Station

- Semi-flush mount

→ p. 54



**AX-BN**  
Privacy Audio Sub Station

- Privacy button
- Semi-flush mount

→ p. 54

### Central Exchange Units: select 1



**AX-084C**  
Central Exchange Unit

- Supports up to 4 master stations and 8 door/sub stations

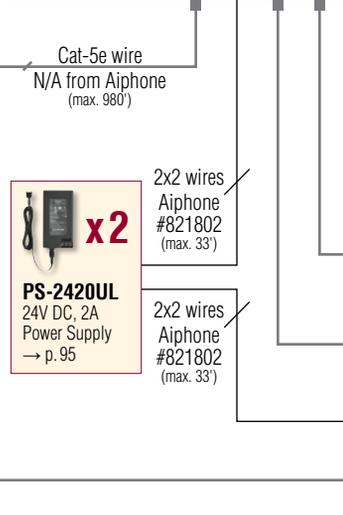
→ p. 53



**AX-248C**  
Central Exchange Unit

- Supports up to 8 master stations and 24 door/sub stations

→ p. 53



## Door Station Features

- Fixed camera provides clear visitor identification (video door stations)
- Card access door stations available

## Master Station Features

- 3-1/2" LCD screen (AX-8MV, AX-8MV-W)
- Hands-free or push-to-talk communication
- Two talk channels
- Composite video output from CEU/video masters
- All Call or Group Call to master stations
- Scan monitoring

## System Features

- Cat-5e wiring homerun from each station
- Selective calling between masters, and from masters to door/sub stations
- Normal or priority call levels
- Data output on CEU provides custom integration capability with CCTV and access control systems\*
- PC programmable with a large variety of settings
- Transfer calls to an outside POTS line (requires Viking Model K-1900-5 programmable dialer)
- Optional features: headset, footswitch, call transfer to telephone, and PC remote control\*

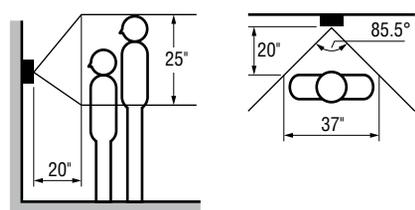
\*Interface requires custom software (not supplied by Aiphone)

## Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Recessed	Height	Width	Depth	Recessed
<b>AX-084C, AX-248C, AX-320C</b>	3-7/16"	16-9/16"	13-3/16"	-	88	420	335	-
<b>AX-8MV, AX-8M, AX-8MV-W</b>	6-7/8"	7-5/8"	2-9/16"	-	175	194	65	-
<b>AX-A, AX-AN</b>	7-1/16"	5-5/8"	2-1/8"	-	180	143	53.5	-
<b>AX-B, AX-BN</b>	8-3/16"	6"	2"	9/16"	208	153	50.5	15
<b>AX-DM</b>	6-5/16"	1-11/16"	7/8"	-	160	43	22.5	-
<b>AX-DV</b>	7-11/16"	3-15/16"	1"	-	195	100	25	-
<b>AX-DVF</b>	9-11/16"	5-3/4"	*	-	246	146	*	-
<b>AX-DVF-P</b>	11-5/8"	5-3/4"	*	-	295	146	*	-
<b>AX-DV-P</b>	9-5/8"	3-15/16"	1"	-	245	100	25	-
<b>IE-JA</b>	4-1/2"	4-9/16"	*	-	115	116	*	-
<b>IE-SS/A, IE-SSR</b>	4-3/4"	4-3/4"	*	-	121	121	*	-
<b>IF-DA</b>	5-1/8"	3-7/8"	1-1/8"	-	130	98	28.5	-

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

## Camera View Area



## Master Stations: mix and match up to 8



**AX-8MV**  
Video Master Station

- 3-1/2" LCD screen
- Wall or desk mount

→ p. 52



**AX-8MV-W**  
Video Master Station  
*(recommended for an 8 x 8 system only)*

- 3-1/2" LCD screen
- White finish
- Wall or desk mount

→ p. 52

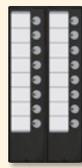


**AX-8M**  
Audio Master Station

- Wall or desk mount

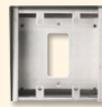
→ p. 52

## Accessories



**AX-16SW**  
16-Call Add-On Selector  
for AX-8MV or AX-8M  
*(max. seven per master)*

→ p. 52



**SBX-2G/A**  
Surface Mount Box for  
IE-JA, IE-SS/A, or IE-SSR

p. 90



**KMB-45**  
45° Mullion Mounting  
Bracket for IF-DA

→ p. 91



**SBX-AXDV30**  
30° Angle Box  
for AX-DV

→ p. 91



**SBX-AXDVF**  
Surface Mount  
Box for AX-DVF

→ p. 90



**SBX-DVF-P**  
Surface Mount  
Box for AX-DVF-P

→ p. 90



**AXW-AZ**  
CCTV Input Module

→ p. 54



**AXW-AVT**  
Audio/Video Transmitter

→ p. 54



**AXW-AVR**  
Audio/Video Receiver

→ p. 54



**EL-12S**  
Electric Door  
Strike for  
Wood Frames  
*(requires  
PT-1210NA)*

→ p. 89



**RY-1824L**  
Form C Door  
Release Relay  
*(one per door)*

→ p. 89



**AXW-PA1**  
Paging Adaptor

→ p. 54



**RY-ES**  
External  
Signaling Relay

→ p. 94



**IER-2**  
Call Extension  
Speaker

→ p. 89



**MCW-S/B**  
Desk Stand  
for AX-8MV,  
AX-8MV-W,  
or AX-8M  
*(mounting  
hardware included)*

→ p. 92

## Add-On Central Exchange Unit: select up to 3 (optional)



**AX-320C**  
Add-On Central Exchange Unit

- Supports up to 32 door/sub stations

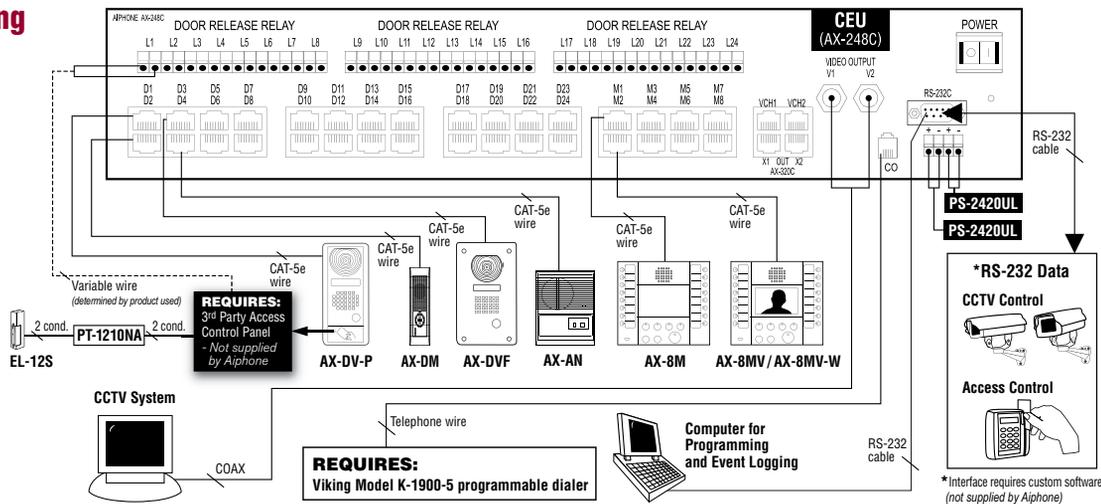
→ p. 53

Cat-5e wire  
N/A from Aiphone  
*(max. 980')*

Cat-5e wire  
N/A from Aiphone  
*(max. 16')*

Cat-5e wire  
N/A from Aiphone  
*(max. 980')*

## Wiring



## Specifications

- Power Source** 24V DC—use two PS-2420ULs
- Communication** Hands-free (VOX) or push-to-talk (simplex)
- Door Release** Programmable dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)

**Wire Type** Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e

Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield—use Aiphone 821802

**Distance** Door/Sub Station to Central Exchange Unit and Add-On Central Exchange Unit: 980'

Central Exchange Unit to Master Station: 980'

Central Exchange Unit to Add-On Central Exchange Unit: 16'

Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 16' (22 AWG) 33' (18 AWG)

# KB Series Handset Video Intercom with Tilt

Video Intercoms

## Door Stations: mix and match up to 3 (max. 1 audio door station per system)

## Master Station



**KB-DAR**  
Video Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 78



**KB-DAR-M**  
Video Door Station

- Motion detector contact input
- Plastic chassis
- Weather resistant
- Surface mount

→ p. 78



**AX-DM**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 53



**IF-DA**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 62



**IE-JA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 62



**IE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 62



**IE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

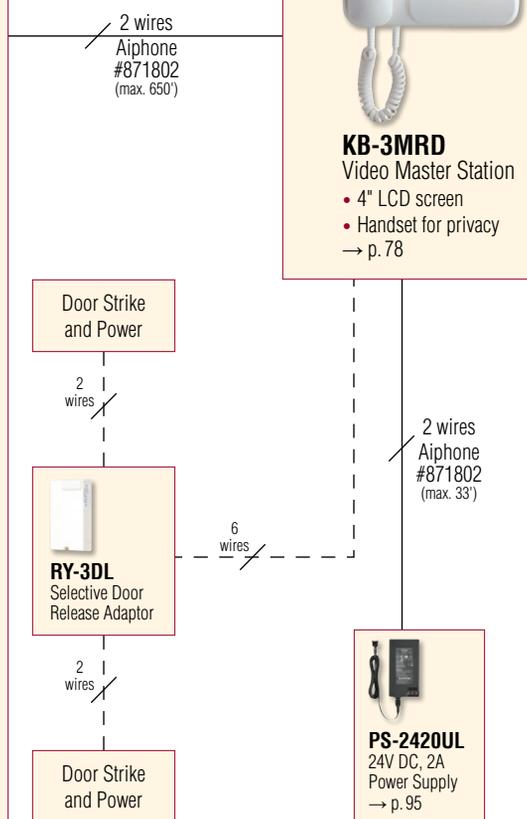
→ p. 62



**KB-3MRD**  
Video Master Station

- 4" LCD screen
- Handset for privacy

→ p. 78



## Door Station Features

- Tilt camera provides larger viewing range (video door stations)

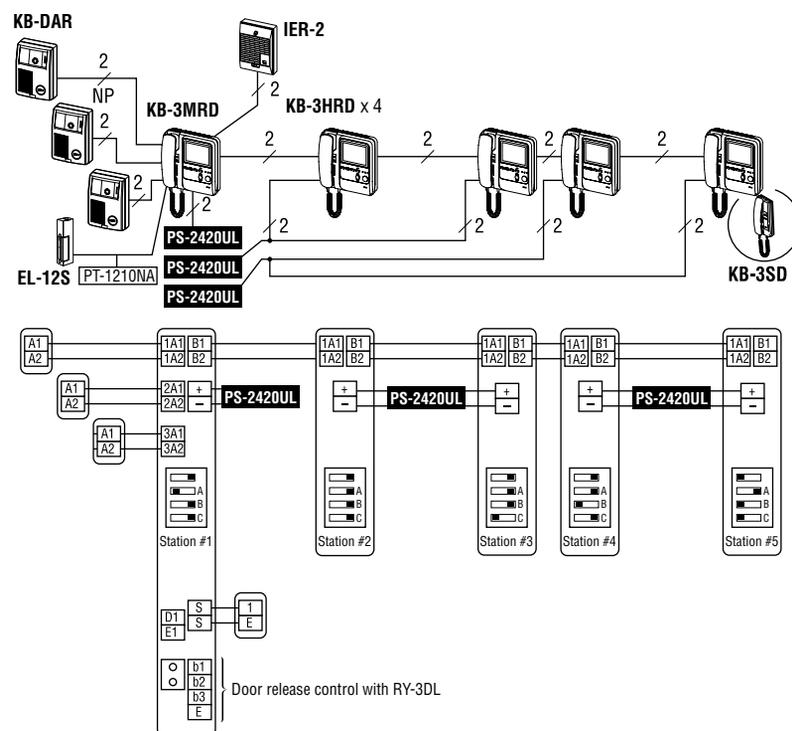
## Master Station Features

- 4" LCD screen
- Instant voice call-in with image
- Selective Call or All Call
- Chime or receiver volume control
- Selective door release with RY-3DL
- Video out to DVR via supplied connector

## System Features

- 330' total distance looped between monitors

## Wiring



**NOTES:** 1. D1 and E1 for IE Series door stations (audio only) instead of third KB-DAR  
2. Run audio/video wires in a separate jacketed cable from door release wires

## Sub Master Stations: mix and match up to 4

(optional – max. 2 audio sub master stations per system)



**KB-3HRD**  
Video Sub Master Station

- 4" LCD screen
- Handset for privacy

→ p. 78



**KB-3SD**  
Audio Sub Master Station

(max. two per system)

- Handset for privacy

→ p. 78

2 wires  
Aiphone #871802  
(max. 330' between master and farthest sub master)

2 wires  
Aiphone #871802  
(max. 33')

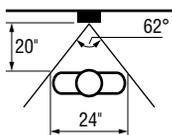
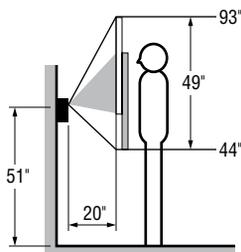
**PS-2420UL**  
24V DC, 2A  
Power Supply  
(required for every two KB-3HRDs)  
→ p. 95

### Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>AX-DM</b>	6-5/16"	1-11/16"	7/8"	160	43	22.5
<b>IE-JA</b>	4-1/2"	4-9/16"	*	115	116	*
<b>IE-SS/A, IE-SSR</b>	4-3/4"	4-3/4"	*	121	121	*
<b>IF-DA</b>	5-1/8"	3-7/8"	1-1/8"	130	98	28.5
<b>KB-3MRD, KB-3HRD</b>	7-11/16"	7-5/16"	3-5/16"	195	185	84
<b>KB-3SD</b>	8-1/4"	3-15/16"	2-7/8"	210	100	73.5
<b>KB-DAR, KB-DAR-M</b>	5-1/2"	4-1/8"	1-3/4"	140	105	44

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

### Camera View Area



## Accessories



**SBX-2G/A**  
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR  
→ p. 90



**SBX-ACE**  
Surface Mount Box for AX-DM, IF-DA, KB-DAR, or KB-DAR-M and one Access Control Device  
→ p. 90



**KMB-45**  
Mullion Mounting Bracket for IF-DA, KB-DAR, or KB-DAR-M  
→ p. 91



**KAW-D**  
30° Angle Box for IF-DA, KB-DAR, or KB-DAR-M  
→ p. 91



**KA-DGR**  
Surface Mount Housing Panel for KB-DAR or KB-DAR-M  
(door station not included)  
→ p. 78



**IER-2**  
Call Extension Speaker  
→ p. 89



**EL-12S**  
Electric Door Strike for Wood Frames  
(requires PT-1210NA)  
→ p. 89



**RY-1824L**  
Form C Door Release Relay  
(for one door)  
→ p. 89



**RY-3DL**  
Selective Door Release Adaptor  
(for two or three doors)  
→ p. 89



**RY-ES**  
External Signaling Relay  
→ p. 94



**MAW-B**  
Auxiliary Light Control Relay  
→ p. 78



**MCW-S/B**  
Desk Stand for KB-3MRD or KB-3HRD  
(mounting hardware included)  
→ p. 92

## Specifications

**Power Source** 24V DC—use PS-2420UL

**Communication** Handset (full-duplex)

**Door Release** N/O dry contact, 12V AC, 400mA (use RY-1824L for larger contact rating or RY-3DL for two or three doors)

**Wire Type** 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

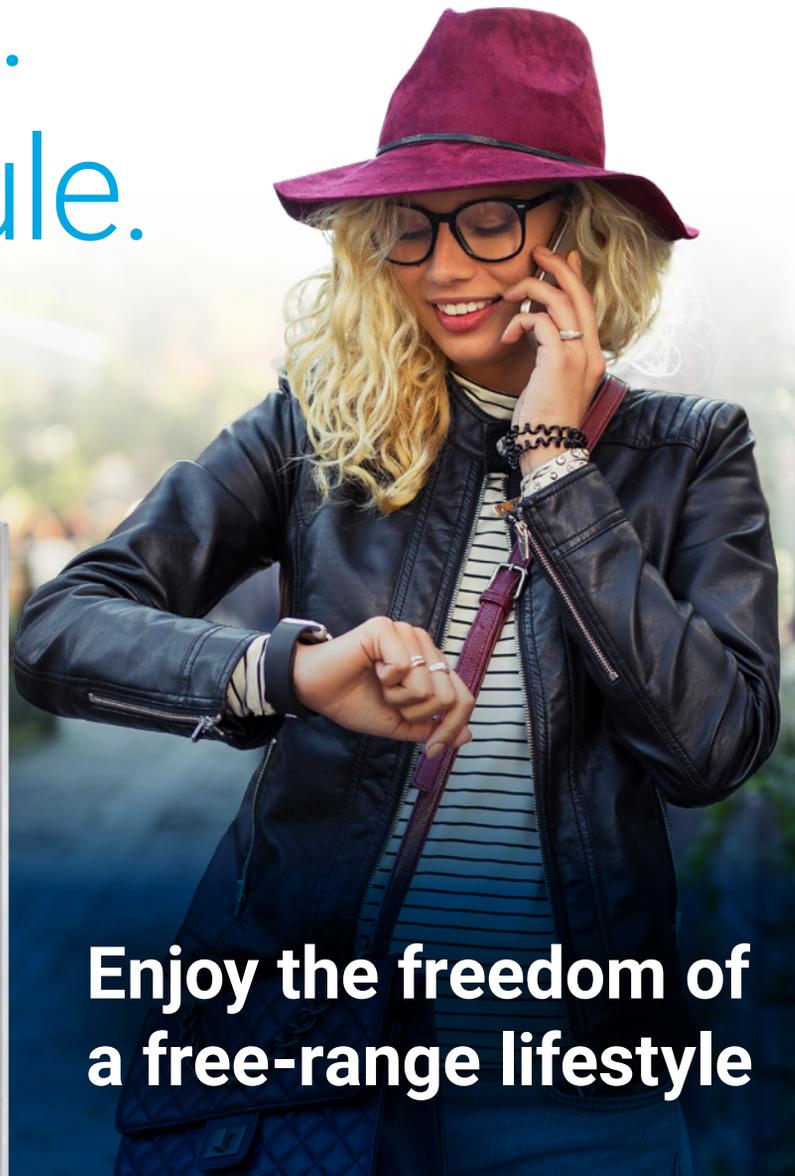
**Distance** Master Station to Door Station: 330' (22 AWG) 650' (18 AWG)

Master Station to farthest Sub Master Station:  
165' (22 AWG) 330' (18 AWG)

Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

Power Supply to Sub Master Station: 16' (22 AWG) 33' (18 AWG)

# Schedule. Schmedule.



## Enjoy the freedom of a free-range lifestyle



Featuring IXG Series IP Multi-Tenant Video Intercom for apartment buildings, commercial high-rises, and campuses. See page 12.

- Safely identify visitors with clear video
- Communicate to determine their intent
- Unlock the door with the in-app slider

**...all while on-the-go with our mobile app!**

Learn more at [aiphone.com/glc\\_ixg](http://aiphone.com/glc_ixg)

# Multi-Tenant Intercoms

## IXG Series

IP Multi-Tenant Video Intercom

→ **p. 12**



## GT Series

Standard Multi-Tenant Video Intercom

→ **p. 26**



## GT Series

Expanded Multi-Tenant Video Intercom

→ **p. 28**



## GT Series

Enterprise-Level Multi-Tenant Video Intercom

→ **p. 30**



## DA Series

Single & Multi-Tenant Handset Intercom

→ **p. 31**



## DB Series

Single & Multi-Tenant Hands-Free Intercom

→ **p. 32**



## Entrance Stations: mix and match up to 5

### Ready-to-Install Single Panel



#### GT-DMB-N

3-in-1 Video Entrance Station

- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image

- Voice announcement
  - Stainless steel panel
  - Weather and vandal resistant
- p. 57



#### GT-DMBN-SSP

3-in-1 Video Entrance Station

- Same features as GT-DMB-N, plus:
  - Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304
- p. 57

Pedestal Pro Model #64TOW-AIP-001-304 (available at [www.pedestalpro.com](http://www.pedestalpro.com))



#### GTV-DES104B

Modular Video Entrance Station Kit (includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GT-4B+GT-4F, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57



#### GTV-DES202B

Modular Video Entrance Station Kit (includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-2B+GF-2F x2, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57



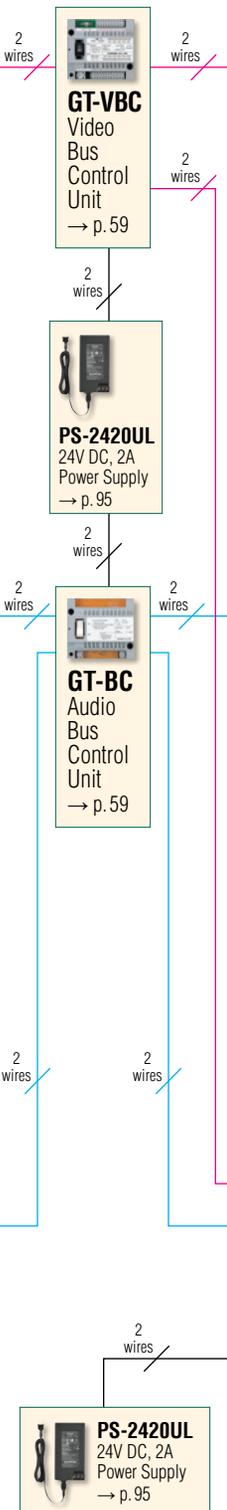
#### GTA-DESB

Modular Audio Entrance Station Kit (includes GT-DB+GT-DBP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-3B+GF-3F, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57

**NOTE:** To build custom entrance stations, see modular components and mounting accessories p. 60–61

- VIDEO Wire Aiphone #871802
- AUDIO Wire Aiphone #872002
- POWER Wire Aiphone #871802



## Tenant Stations: mix and match up to 48\*

### Tenant Master Stations & Sub Master Stations with Internal Communication, Picture Memory, and Suite Security



1 GT-2C + 3 GT-2Hs per tenant (max. 48 GT-2Cs)



#### GT-2C

Video Tenant Master Station (requires PS-2420UL or GT-4ZP)

- 3-1/2" LCD screen
  - Hands-free or push-to-talk communication
  - Picture Memory
  - Compatible with the GT-D audio tenant door station
- p. 58



#### GT-2H

Video Tenant Sub Master Station

- 3-1/2" LCD screen
  - Hands-free or push-to-talk communication
- p. 58

\*Tenant Stations—Up to 4 stations per tenant with these parameters: 1 GT-1C7/W + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR** 4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)



#### GT-1C7W

App-Compatible Video Tenant Station (requires PS-2420UL or GT-4ZP)

- Connect up to eight free mobile apps
  - 7" LCD touchscreen
  - Hands-free or push-to-talk communication
- p. 59



#### GT-1C7

Video Tenant Station

- 7" LCD screen
  - Hands-free or push-to-talk communication
- p. 59



#### GT-1M3

Video Tenant Station

- 3-1/2" LCD screen
  - Hands-free or push-to-talk communication
- p. 59



#### GT-1A

Audio Tenant Station

- Hands-free or push-to-talk communication
- p. 59

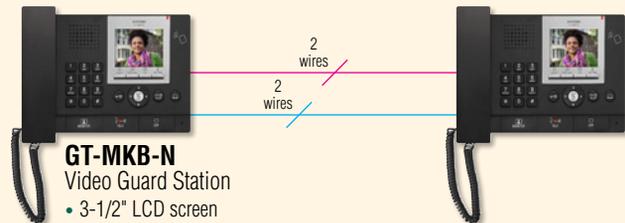


#### GT-1D

Audio Tenant Station

- Handset for privacy
- p. 59

## Video Guard Station: select up to 2



#### GT-MKB-N

Video Guard Station

- 3-1/2" LCD screen
  - Tenant directory programming with NFC
  - Hands-free communication with handset for privacy
  - Includes desk stand
  - Compatible with JO-DV for single-door video entry
- p. 58

**NOTE:** Maximum cumulative audio wire distance = 8,200 ft. If exceeded, contact Technical Support for system configuration assistance.

**Specifications**  
See p. 57–61

**Camera View Area**  
See p. 60

## Tenant Stations: mix and match up to 48\*

### Tenant Master Stations & Sub Master Stations with Internal Communication, Picture Memory, and Suite Security

1 GT-2C + 3 GT-2Hs per tenant (max. 48 GT-2Cs)



**GT-2C**  
→ p. 58

1 + 3



**GT-2H**  
→ p. 58

**\*Tenant Stations** – Up to 4 stations per tenant with these parameters:  
1 GT-1C7/W + 3 audio stations **OR** 2 GT-1M3s + 2 audio stations **OR**  
4 audio stations (max. 48 stations or max. 100 stations if only using GT-1Ds)



**GT-1C7W**  
App-Compatible Video Tenant Station  
(requires PS-2420UL or GT-4ZP)  
• Connect up to eight free mobile apps  
• 7" LCD touchscreen  
• Hands-free or push-to-talk communication  
→ p. 59



**GT-1C7**  
Video Tenant Station  
• 7" LCD screen  
• Hands-free or push-to-talk communication  
→ p. 59



**GT-1M3**  
Video Tenant Station  
• 3-1/2" LCD screen  
• Hands-free or push-to-talk communication  
→ p. 59



**GT-1D**  
Audio Tenant Station  
• Handset for privacy  
→ p. 59



**GT-1A**  
Audio Tenant Station  
• Hands-free or push-to-talk communication  
→ p. 59

2 wires

2 wires

## Accessories

**NFC-CARD**  
Access Card for GT-DB-VN and GT-DMB-N  
(image not available)  
→ p. 57



**GT-102H**  
2-Module Rain Hood  
(GT-103H, GT-104H, GT-202H, and GT-203H are also available)  
→ p. 61



**GT-102HB**  
2-Module Hooded Surface Mount Box  
(GT-103HB, GT-104HB, GT-202HB, GT-203HB, and GT-303HB are also available)  
→ p. 61

**NFC-FOB**  
Access Fob for GT-DB-VN and GT-DMB-N  
(image not available)  
→ p. 57

**SBX-GTDMB**  
Surface Mount Box for GT-DMB-N  
→ p. 61



**GT-HSA**  
Optional Add-On Handset for GT-2C or GT-2H  
→ p. 58



**MCW-S/B**  
Desk Stand for GT-2C, GT-2H, GT-1C7, GT-1M3, or GT-1A  
(mounting hardware included)  
→ p. 92



**GFK-PS**  
Urgent Call Pull Cord  
→ p. 60



**GT-RY**  
External Signaling Relay  
→ p. 60



**GTW-VOA**  
Video Output Adaptor  
→ p. 59



**GT-MCX**  
Network Adaptor  
(includes mounting rail)  
→ p. 59



**GTW-DP**  
Distribution Point Adaptor  
(includes mounting rail)  
→ p. 59



**GT-1Z**  
1-Way Video Distribution Adaptor  
→ p. 59



**GT-4ZP**  
4-Way Video/Power Distribution Adaptor for GT-1C7W  
→ p. 59



**GT-4Z**  
4-Way Video Distribution Adaptor  
→ p. 59



**W-DIN11**  
DIN Mounting Rail for Control Units  
→ p. 61

## Entrance Station Features

- CCTV camera input provides additional surveillance of entry area (GT-DMB-N, GT-VB)
- Both video and audio entrance panels can be combined in the same system
- LEDs at door allow use in low light conditions (video system)

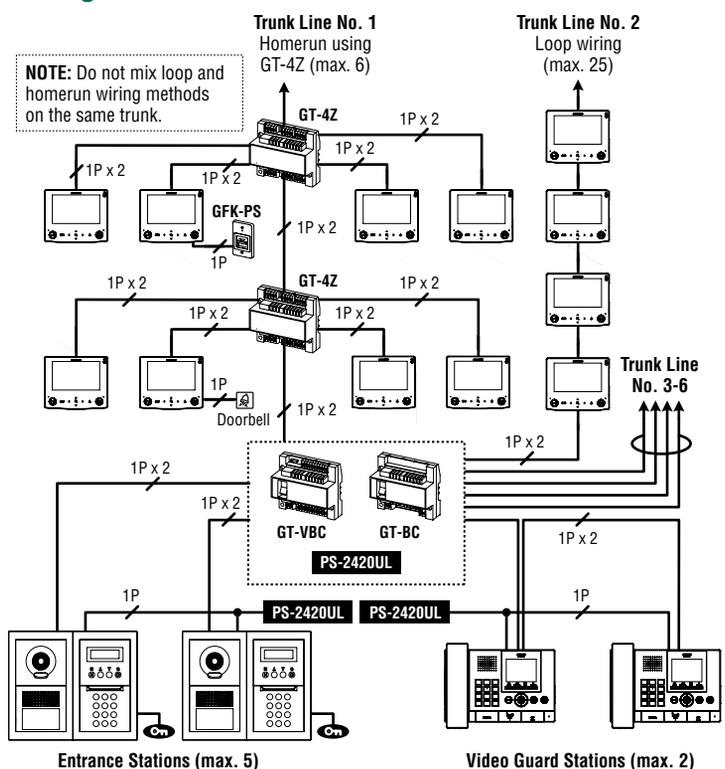
## Tenant Station Features

- Mobile app can be used as a sub tenant station (requires GT-1C7W)
- Unlock entrance from tenant station
- Optional individual doorbell to ring tenant stations
- Panic call switch for emergency calling to guard or concierge
- Tenant can monitor the entryway (video system)
- Option button

## System Features

- Tenant directory can quickly be updated with NFC-compatible stations (GT-DB-VN, GT-DMB-N, GT-MKB-N, GT-BCXB-N)
- Link data allows easy programming of multiple entrance and video guard stations
- Setting via dip switch for digital systems provides faster and easier installation (GT-2C, GT-1C7, GT-1C7W, GT-1M3)
- Simple wiring with only two common wires for audio and only two additional wires for video
- Video guard station(s) can be included to provide communication between office/lobby and tenants
- Security guard can screen calls from visitors (Reception Mode)

## Wiring GT Standard Configuration Sample



## Entrance Stations: mix and match up to 16

### Ready-to-Install Single Panel



#### GT-DMB-N

3-in-1 Video Entrance Station

- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad
- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image

- Voice announcement
  - Stainless steel panel
  - Weather and vandal resistant
- p. 57



#### GT-DMBN-SSP

3-in-1 Video Entrance Station

- Same features as GT-DMB-N, plus:
  - Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304
- p. 57

Pedestal Pro Model  
#64TOW-AIP-001-304  
(available at [www.pedestalpro.com](http://www.pedestalpro.com))



#### GTV-DES104B

Modular Video Entrance Station Kit

(includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GT-4B+GT-4F, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57



#### GTV-DES202B

Modular Video Entrance Station Kit

(includes GT-DB+GT-DBP, GT-VB+GT-VP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-2B+GF-2F x2, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57



#### GTA-DESB

Modular Audio Entrance Station Kit

(includes GT-DB+GT-DBP, GT-NSB+GT-NSP-L, GT-10K+GF-10KP, GF-3B+GF-3F, and GT Operation Plate)

- Modular components
  - Configuration can be customized
  - Digital scroll buttons
- p. 57

**NOTE:** To build custom entrance stations, see modular components and mounting accessories p. 60–61



## Video Guard Station: select up to 2

— VIDEO Wire  
Aiphone #871802

— AUDIO Wire  
Aiphone #872002

— POWER Wire  
Aiphone #871802



#### GT-MKB-N

Video Guard Station

- 3-1/2" LCD screen
- Tenant directory programming with NFC

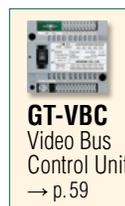
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry → p. 58



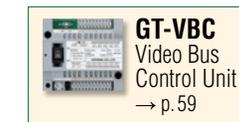
GT-BC  
Audio Bus Control Unit  
→ p. 59



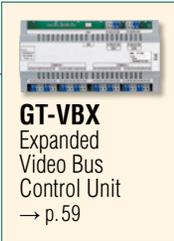
PS-2420UL  
24V DC, 2A Power Supply  
→ p. 95



GT-VBC  
Video Bus Control Unit  
→ p. 59



GT-VBC  
Video Bus Control Unit  
→ p. 59

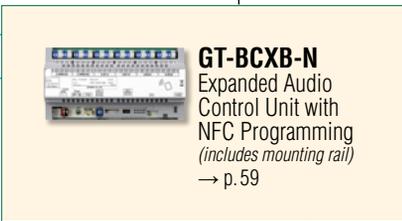


GT-VBX  
Expanded Video Bus Control Unit  
→ p. 59

Connected with 16" cable supplied by GT-VBX



GT-BC  
Audio Bus Control Unit  
→ p. 59



GT-BCXB-N  
Expanded Audio Control Unit with NFC Programming  
(includes mounting rail)  
→ p. 59



PS-2420UL  
24V DC, 2A Power Supply  
→ p. 95



PS-2420UL  
24V DC, 2A Power Supply  
→ p. 95

## Video Guard Station: select up to 2



#### GT-MKB-N

Video Guard Station

- 3-1/2" LCD screen
- Tenant directory programming with NFC

- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry → p. 58



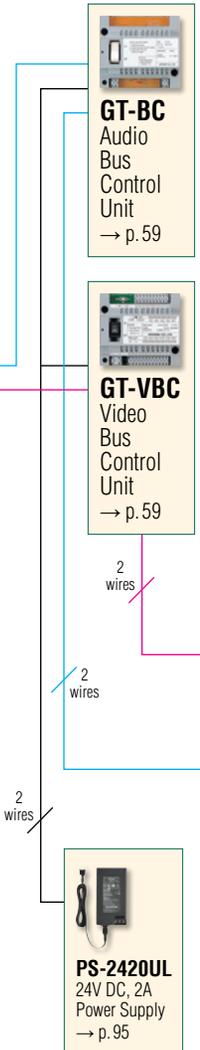
PS-2420UL  
24V DC, 2A Power Supply  
→ p. 95

## Specifications

See p. 57–61

## Camera View Area

See p. 60



### Tenant Stations: mix and match up to 125 (Sub Trunk 1a)

**GT-2C**  
Video Tenant Master Station  
*(requires PS-2420UL or GT-4ZP)*

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication
- Compatible with the GT-D audio tenant door station

→ p. 58

**GT-2H**  
Video Tenant Sub Master Station

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication

→ p. 58

**GT-1C7W**  
App-Compatible Video Tenant Station  
*(requires PS-2420UL or GT-4ZP)*

- Connect up to eight free mobile apps
- 7" LCD touchscreen
- Hands-free or push-to-talk communication

→ p. 59

**GT-1C7**  
Video Tenant Station

- 7" LCD screen
- Hands-free or push-to-talk communication

→ p. 59

**GT-1M3**  
Video Tenant Station

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication

→ p. 59

**GT-1A**  
Audio Tenant Station

- Hands-free or push-to-talk communication

→ p. 59

**GT-1D**  
Audio Tenant Station

- Handset for privacy

→ p. 59

### Accessories

**NFC-CARD**  
Access Card for GT-DB-VN and GT-DMB-N  
*(image not available)*

→ p. 57

**GT-102H**  
2-Module Rain Hood  
*(GT-103H, GT-104H, GT-202H, and GT-203H are also available)*

→ p. 61

**GT-102HB**  
2-Module Hooded Surface Mount Box  
*(GT-102HB, GT-103HB, GT-104HB, GT-202HB, GT-203HB, and GT-303HB are also available)*

→ p. 61

**SBX-GTDMB**  
Surface Mount Box for GT-DMB-N

→ p. 61

**NFC-FOB**  
Access Fob for GT-DB-VN and GT-DMB-N  
*(image not available)*

→ p. 57

**MCW-S/B**  
Desk Stand for GT-2C, GT-2H, GT-1C7, GT-1M3, or GT-1A  
*(mounting hardware included)*

→ p. 92

**GFK-PS**  
Urgent Call Pull Cord

→ p. 60

**GT-RY**  
External Signaling Relay

→ p. 60

**GT-HSA**  
Optional Add-On Handset for GT-2C or GT-2H

→ p. 58

**GT-MCX**  
Network Adaptor  
*(includes mounting rail)*

→ p. 59

**GTW-LC**  
Multi-Relay Control Unit  
*(for use with Expanded System only - requires GT-BCXB-N)*

→ p. 59

**GTW-DP**  
Distribution Point Adaptor  
*(includes mounting rail)*

→ p. 59

**GTW-VOA**  
Video Output Adaptor

→ p. 59

**GT-4ZP**  
4-Way Video/Power Distribution Adaptor for GT-1C7W

→ p. 59

**GT-1Z**  
1-Way Video Distribution Adaptor

→ p. 59

**GT-4Z**  
4-Way Video Distribution Adaptor

→ p. 59

**W-DIN11**  
DIN Mounting Rail for Control Units

→ p. 61

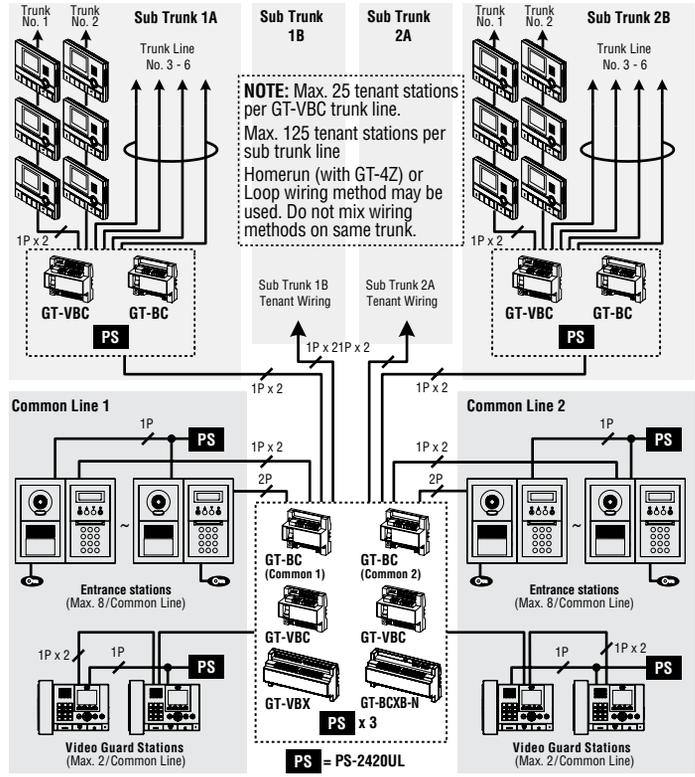
See Sub Trunk 1a above for details



### Features—same as Standard System, plus:

- Up to 16 entrance panels, 4 video guard stations, and 500 tenant stations

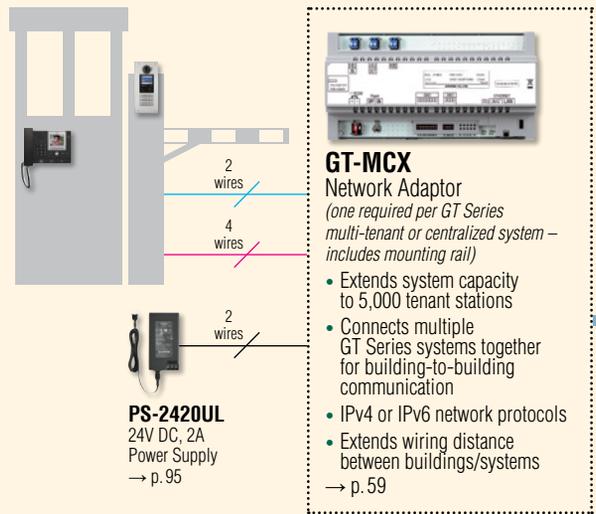
### Wiring GT Expanded Configuration Sample



Multi-Tenant Intercoms

## GT Series Centralized System: mix and match up to 8

**Main Entrance, Gate, or Security Center** (can communicate between stations within the same system, as well as all networked multi-tenant and centralized systems)



**GT-MCX**  
Network Adaptor  
(one required per GT Series multi-tenant or centralized system – includes mounting rail)

- Extends system capacity to 5,000 tenant stations
- Connects multiple GT Series systems together for building-to-building communication
- IPv4 or IPv6 network protocols
- Extends wiring distance between buildings/systems

→ p. 59

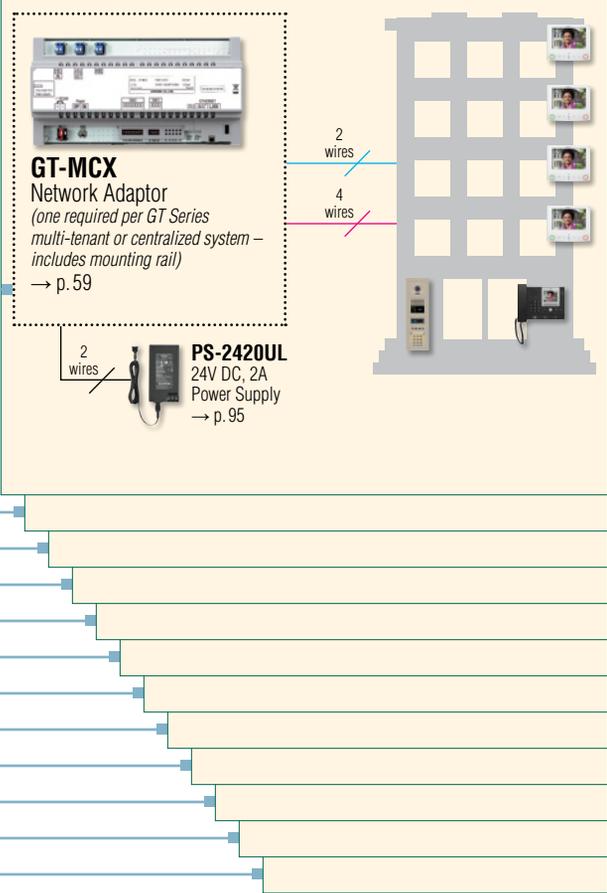
**PS-2420UL**  
24V DC, 2A  
Power Supply  
→ p. 95

- VIDEO Wire Aiphone #871802
- AUDIO Wire Aiphone #872002
- POWER Wire Aiphone #871802
- LAN Cat-5e or Cat-6



## GT Series Standard or Expanded Multi-Tenant Video Intercom System (→ p.26, 28): mix and match up to 24

**Multi-Tenant Building 1** (can communicate between stations within the same system, as well as all networked centralized systems)



**GT-MCX**  
Network Adaptor  
(one required per GT Series multi-tenant or centralized system – includes mounting rail)

→ p. 59

**PS-2420UL**  
24V DC, 2A  
Power Supply  
→ p. 95

## Connect up to 8 Centralized Systems

## Connect up to 24 Standard or Enhanced Multi-Tenant Video Intercom Systems

**NOTE:** Each building in a networked system can have up to 500 tenant stations max., even if the capacity of 5,000 tenant stations has not been reached.

### Features—same as Standard System, plus:

- Network adaptor (GT-MCX) connects multiple GT Series systems together for building-to-building communication
- Up to 480 entrance panels, 96 video guard stations, and 5,000 tenant stations

### Specifications

See p. 57–61

### Camera View Area

See p. 60

### Wiring

There are many different wiring configurations possible with the GT Series.

For additional help, contact Aiphone's Technical Support.

**800.692.0200**



# DA Series Single & Multi-Tenant Handset Intercom

**Box Set:** select if DA-1DS is the desired entrance station (for 1x1 applications only)



**DA-1AS:**  
Box Set with DA-1DS, DA-1MD, and PT-1211CA

**Entrance Stations:** select 1 (for a la carte applications)



**DA-1DS**  
1-Call Audio Entrance Station  
(included with DA-1AS box set – also sold separately)  
• Direct select button  
• Backlit directory  
• Weather resistant  
→ p. 56



**DA-2DS**  
2-Call Audio Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant  
→ p. 56

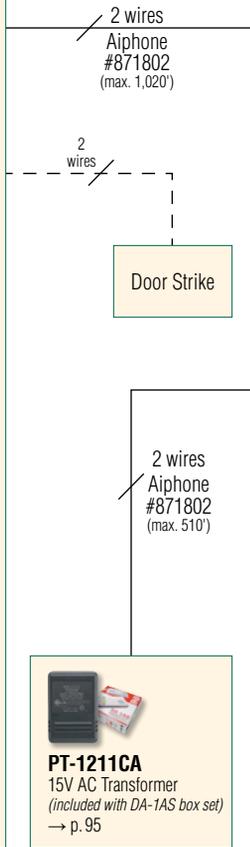


**DA-4DS**  
4-Call Audio Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant  
→ p. 56

**Tenant Station:** select up to 4



**DA-1MD**  
(included with DA-1AS box set)  
Audio Tenant Station  
• Handset for privacy  
→ p. 56



**Accessories**



**EL-12S**  
Electric Door Strike for Wood Frames  
→ p. 89

## Entrance Station Features

- Door strike (EL-12S) powered by door station without the need of an additional transformer or wiring
- Backlit directory

## Tenant Station Features

- Option button to control an external device
- Call tone volume control with mute indicator

## System Features

- Convenient box set complete with a tenant station, a 1-call entrance station, and a power supply available for 1x1 applications
- 2-wire system is quick and easy to install

## Specifications

- Power Source** 15V AC—use PT-1211CA
- Communication** Handset (full-duplex)
- Door Release** 9.5–20V AC, 70Ω or higher resistance—use EL-12S

**Wire Type** Entrance Station to Tenant Station: 2-cond., overall shield—use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802

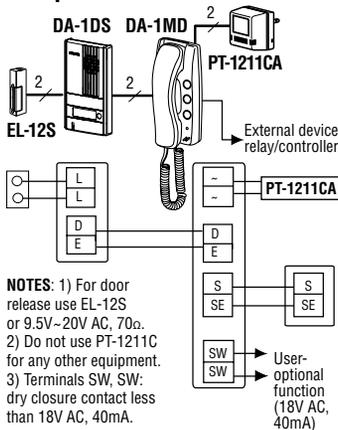
**Power Supply to Tenant Station:** 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802

**Distance** Power Supply to Entrance Station or Door Strike (cumulative): 360' (22 AWG) 1,020' (18 AWG)

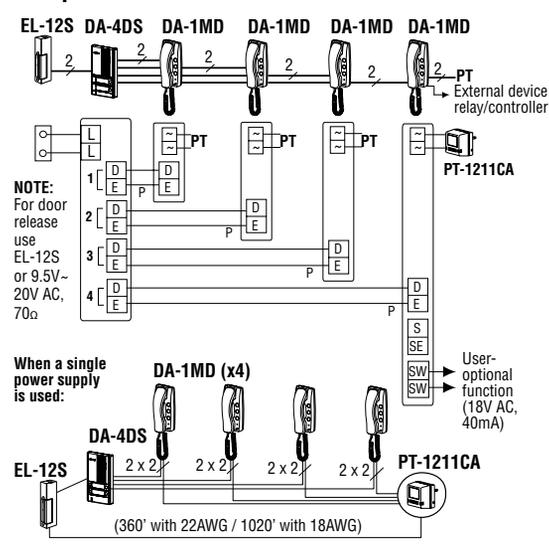
**Power Supply to Tenant Station:** 180' (22 AWG) 510' (18 AWG)

## Wiring

**Example with DA-1DS**



**Example with DA-4DS**



## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
DA-1DS, DA-2DS, DA-4DS	6-7/8"	3-15/16"	7/8"	175	100	22
DA-1MD	7-7/8"	3-1/2"	2-1/2"	200	89	63

**Box Set:** select if DA-1DS is the desired entrance station (for 1x1 applications)



**DBS-1A**  
Box Set with DA-1DS, DB-1MD, and PT-1211CA

**START with a BOX SET**

**Entrance Stations:** select 1 (for a la carte applications)



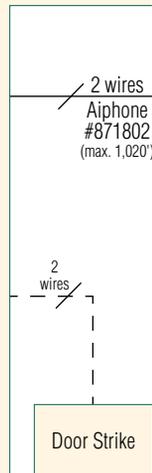
**DA-1DS**  
1-Call Audio Entrance Station  
(included with DBS-1A box set)  
• Direct select button  
• Backlit directory  
• Weather resistant  
→ p. 56



**DA-2DS**  
2-Call Audio Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant  
→ p. 56



**DA-4DS**  
4-Call Audio Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant  
→ p. 56



## Entrance Station Features

- Door release powered by door station without the need of an additional transformer or wiring
- Backlit directory

## Tenant Station Features

- All Call between stations within same tenant residence or office
- Option button to control an external device
- Call tone volume control with mute indicator

## System Features

- Convenient box set is complete with a tenant master station, a 1-call entrance station, and a power supply available for 1x1 applications
- Optional call extension speaker

## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>DA-1DS, DA-2DS, DA-4DS</b>	6-7/8"	3-15/16"	7/8"	175	100	22
<b>DB-1MD, DB-1SD</b>	7-5/16"	3-1/8"	1-1/16"	185	80	27

## Specifications

- Power Source** 15V AC—use PT-1211CA (requires one per tenant master station and one per two tenant sub stations)
- Communication** Hands-free (VOX) or push-to-talk (simplex)
- Door Release** 9.5–20V AC, 70Ω or higher resistance—use EL-12S
- Wire Type** Entrance Station to Tenant Master Station: 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802  
 Tenant Master Station to Tenant Sub Station: 4-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871804  
 Between Tenant Sub Stations: 4-cond. + 2-cond. when sharing power—use Aiphone #822206 or #871804  
 Power Supply to Tenant Station: 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802
- Distance** Power Supply to Entrance Station or Door Strike (cumulative): 360' (22 AWG) 1,020' (18 AWG)  
 Power Supply to Tenant Master Station: 180' (22AWG) 510' (18AWG)  
 Tenant Master Station to farthest Tenant Sub Station: 330'

**Tenant Master Station: select up to 4**



**DB-1MD**  
Audio Hands-Free  
Tenant Master Station  
(included with DBS-1A box set)  
→ p. 56

**Tenant Sub Station: select up to 4 per tenant master station (optional)**



**DB-1SD**  
Audio Hands-Free  
Tenant Sub Station  
→ p. 56

**Accessories**



**EL-12S**  
Electric Door Strike  
for Wood Frames  
→ p. 89



**RY-ES**  
External  
Signaling Relay  
→ p. 94



**IER-2**  
Call Extension  
Speaker  
→ p. 89



**MCW-S/B**  
Desk Stand for  
DB-1MD or DB-1SD  
(mounting hardware included)  
→ p. 92

2 wires  
Aiphone  
#871802  
(max. 510')

4 wires  
Aiphone #871804  
(max. 330' between  
master and farthest sub)

2 wires  
Aiphone  
#871802  
(max. 510')



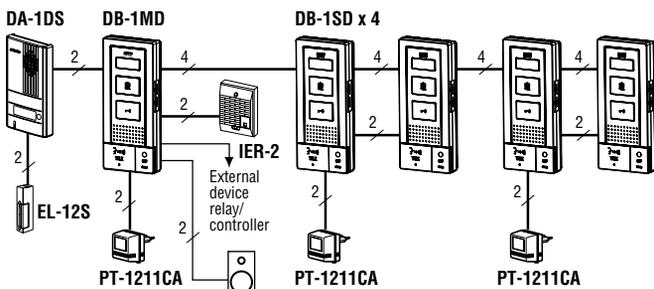
**PT-1211CA**  
15V AC  
Transformer  
(included with  
DBS-1A box set)  
→ p. 95



**PT-1211CA**  
15V AC  
Transformer  
(one PT-1211CA  
per two DB-1SDs)  
→ p. 95

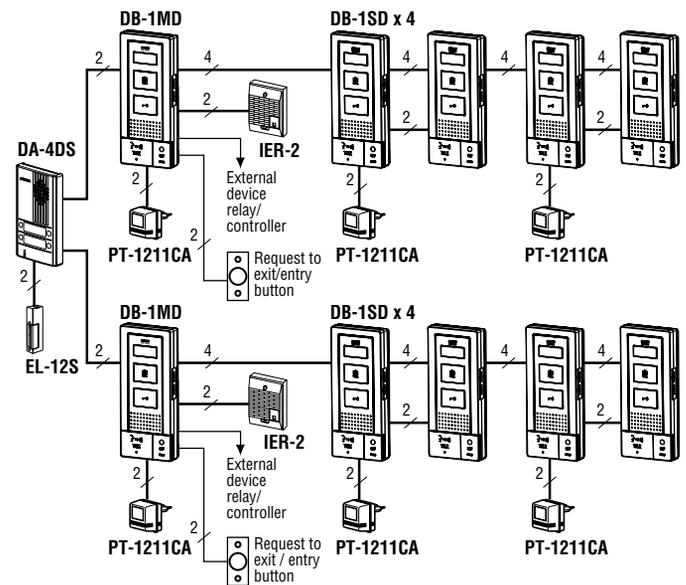
**Wiring**

**Example with DA-1DS**



**NOTE:** For door release use EL-12S or 9.5V~20V AC, 70Ω

**Example with DA-4DS**



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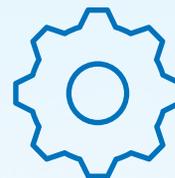
QuikTech is highly searchable, well organized, and includes answers to the questions we hear the most.

It is written in your language, with the goal to quickly resolve any on-site challenges while reducing installation time.

The knowledge base is constantly reviewed and updated too. Articles cover both current and legacy systems, which are available online to help you 24/7/365.



Common Issues



Programming



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Application Notes



Specifications



Tips

Search articles at [aiphone.com/glc\\_quiktech](http://aiphone.com/glc_quiktech)

# Audio Intercoms

## LEF Series

Selective Call &  
All Call Intercom

→ p. 36



## LEM Series

Open Voice Intercom

→ p. 38



## LEM-1DL Series

Access Sentry Intercom

→ p. 39



## C-123L/A & C-123LW Sets

ChimeCom

→ p. 40



## CCS-1A Set

ChimeCom2

→ p. 41



## IE-8 Series

Chime Tone Intercom

→ p. 42



## AT-406 Series

Handset to Handset Intercom

→ p. 43



## MC Series

MarketCom

→ p. 44



## TD-H Series

Selective Call Intercom

→ p. 45



## IM Series

Security Window Intercom

→ p. 46



## NHX Series

Nurse Call Intercom (UL 1069 Listed)

→ p. 47



## NIM Series

Nurse Call Intercom

→ p. 48



# LEF Series Selective Call & All Call Intercom

Door Stations, Sub Stations, Speakers, & Paging Adaptor: mix and match up to 10 (requires 1 master station)



**LE-D**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 80



**LE-SS-1G**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 1-gang box)

→ p. 80



**LE-DA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 80



**LE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80



**LE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80



**LS-NVP/C**  
Audio Door Station

- Powder-coated steel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)

→ p. 80



**LE-A**  
Audio Sub Station

- Surface mount

→ p. 79



**LE-AN**  
Privacy Audio Sub Station

- Surface mount
- Privacy button

→ p. 79



**LE-B**  
Audio Sub Station

- Semi-flush mount

→ p. 79



**LE-BN**  
Privacy Audio Sub Station

- Semi-flush mount
- Privacy button

→ p. 79



**LEF-1C**  
Audio Sub Master Station (requires BG-10C)

- All Call button
- Semi-flush mount

→ p. 79



**SP-20N/A**  
Ceiling Speaker Sub Station (requires NP-25V)

- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

→ p. 93



**BA-1**  
Paging Adaptor

→ p. 93

## Master/Sub Station Features

- Monitoring and Selective Call
- 3, 5, and 10-call master stations
- Push-to-talk at master, hands-free reply at called station
- Call tone and LED annunciation at master
- Selective door release (with 1 RY-PA per door) on LEF-3L, LEF-5, LEF-5C, LEF-10, LEF-10S, and LEF-10C master stations
- All Call with LEF-10S and all LEF-C masters (requires BG-10C)

## System Features

- Intermix doors, masters, subs, speakers, and paging adaptors to create desired communication (up to 11 total components)
- Wide variety of master and sub stations available

## Specifications

**Power Source** 12V DC—use PS-1208UL (use PS-1225UL if installing BG-10C)

**Communication** Push-to-talk (simplex)

**Door Release** N/O dry contact, 24V DC, 1A (one RY-PA required per door strike)

**Wire Type** Variable wire types – see table on page 36

**Distance** Door Station or Sub Station to farthest Master Station:  
650' (22AWG) 1,600' (18AWG)

LEF Series Wire Types	Wire #	Gauge	Conductor
▼ LEF Standard Wiring			
LEF-3	822210	22 AWG	10-conductor, overall shield
LEF-5	822212	22 AWG	12-conductor, overall shield
LEF-10, LEF-10S	822220	22 AWG	20-conductor, overall shield
▼ LEF-C Wiring			
LEF-1C homerun to BG-10C	822212	22 AWG	12-conductor, overall shield
LEF-1C looped (max. 9 stations)	822220	22 AWG	20-conductor, overall shield
LEF-3C	822212	22 AWG	12-conductor, overall shield
LEF-5C	822215	22 AWG	15-conductor, overall shield
LEF-10C	822220	22 AWG	20-conductor, overall shield
BG-10C to Master Station	822220	22 AWG	20-conductor, overall shield
▼ Sub/Door Station Wiring			
Homerun (22AWG)	822203	22 AWG	3-conductor, overall shield
Homerun (18AWG)	821803	18 AWG	3-conductor, overall shield
Looped (max. 4 stations)	822206	22 AWG	6-conductor, overall shield
Looped (max. 8 stations)	822210	22 AWG	10-conductor, overall shield
▼ LEF + Door Release Wiring			
LEF-3L	822212	22 AWG	12-conductor, overall shield
LEF-5, LEF-5C	822220	22 AWG	20-conductor, overall shield
LEF-10, LEF-10S, LEF-10C	822220 + 822210	22 AWG	20-conductor, overall shield + 10-conductor, overall shield

# Mix and match up to 11 LEF components

## Master Stations: mix and match up to 11



**LEF-3**  
3-Call Audio Master Station  
• Surface mount  
→ p. 79



**LEF-3L**  
3-Call Audio Master Station  
• Selective door release  
• Surface mount  
→ p. 79



**LEF-3C**  
3-Call Audio Master Station  
• All Call button (requires BG-10C)  
• Semi-flush mount  
→ p. 79



**LEF-5**  
5-Call Audio Master Station  
• Selective door release  
• Surface mount  
→ p. 79



**LEF-5C**  
5-Call Audio Master Station  
• All Call button (requires BG-10C)  
• Selective door release  
• Semi-flush mount  
→ p. 79



**LEF-10**  
10-Call Audio Master Station  
• Selective door release  
• Surface mount  
→ p. 79



**LEF-10S**  
10-Call Audio Master Station  
• All Call button (requires BG-10C)  
• Selective door release  
• Surface mount  
→ p. 79



**LEF-10C**  
10-Call Audio Master Station  
• All Call button (requires BG-10C)  
• Selective door release  
• Semi-flush mount  
→ p. 79

**IMPORTANT VOLTAGE NOTICE:**  
Use 12V DC voltage only!  
Connecting AC voltage to an LEF master station can damage the component.



**PS-1225UL**  
12V DC, 2.5A Power Supply  
(required if using BG-10C, otherwise use PS-1208UL)  
→ p. 95



**PS-1208UL**  
12V DC, 800mA Power Supply  
→ p. 95

## Accessories



**KMB-45**  
45° Mullion Mounting Bracket for LE-D  
→ p. 91



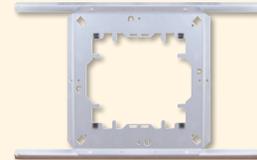
**SBX-1G**  
Surface Mount Box for LE-SS-1G  
→ p. 90



**SBX-2G/A**  
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR  
→ p. 90



**SBX-NVP/A**  
Surface Mount Box for LS-NVP/C  
→ p. 90



**SSB-2**  
Ceiling Support Bracket for SP-20N/A  
→ p. 93



**EL-12S**  
Electric Door Strike for Wood Frames (requires PT-1210NA)  
→ p. 89



**RY-PA**  
Door Release Relay  
→ p. 80



**LT-1**  
20Ω-to-8Ω Matching Transformer  
→ p. 80



**LEW-5, LEW-10, LEW-10S**  
Terminal Box  
→ p. 80



**BG-10C**  
All Call, Chime, and Music Adaptor (requires PS-1225UL)  
→ p. 80



**NP-25V**  
33μF, 25V Non-Polarized Capacitor  
→ p. 93



**RY-AC/A**  
External Signaling Relay  
→ p. 94

## Dimensions

	INCHES					MILLIMETERS				
	Height	Width	Depth	Recessed	Diameter	Height	Width	Depth	Recessed	Diameter
BA-1	4-1/8"	2-1/2"	1-1/2"	-	-	105	64	38	-	-
LE-A, LE-AN	6-5/16"	5-3/16"	2"	-	-	160	131	51	-	-
LEF-3, LEF-3L	7-1/16"	5-5/8"	2-1/8"	-	-	180	143	53.5	-	-
LE-B, LE-BN, LEF-1C, LEF-3C	8-3/16"	6"	2"	9/16"	-	208	153	50.5	15	-
LE-D	4-3/4"	3-7/16"	1-1/8"	-	-	120	88	29	-	-
LE-DA	4-1/2"	4-9/16"	*	-	-	115	116	*	-	-
LEF-5, LEF-10, LEF-10S	8-1/8"	7-1/2"	2-3/16"	-	-	206	190	55	-	-
LE-5C, LEF-10C	9-3/8"	7-7/8"	3"	1-9/16"	-	238	200	75.5	40	-
LE-SS/A, LE-SSR	4-3/4"	4-3/4"	*	-	-	119.89	119.89	*	-	-
LE-SS-1G	4-1/2"	2-3/4"	*	-	-	114.3	69.85	*	-	-
LS-NVP/C	7-1/2"	5-1/2"	*	-	-	191	140	*	-	-
SP-20N/A	-	-	**	-	12-7/8"	-	-	**	-	327

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

\*\*SP-20N/A has a 3/8" depth projection from the surface.

## Wiring

There are many different wiring configurations possible with the LEF Series.

For additional help, contact Aiphone's Technical Support.

**800.692.0200**



## Door Stations, Sub Stations, Speakers, & Paging Adaptor: mix and match up to 3

**LE-D**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 80

**LE-SS-1G**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 1-gang box)

→ p. 80

**LE-DA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LS-NVP/C**  
Audio Door Station

- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)

→ p. 80

**LE-A**  
Audio Sub Station

- Surface mount

→ p. 79

**LE-B**  
Audio Sub Station

- Semi-flush mount

→ p. 79

**LE-AN** (not shown)  
Privacy Audio Sub Station

- Surface mount
- Privacy button

→ p. 79

**LE-BN** (not shown)  
Privacy Audio Sub Station

- Semi-flush mount
- Privacy button

→ p. 79

**SP-20N/A**  
Ceiling Speaker Sub Station (requires NP-25V)

- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

→ p. 93

**BA-1**  
Paging Adaptor

→ p. 93

## Master Stations: select 1

**LEM-1**  
1-Call Audio Master Station  
(for applications using one door/sub station)

- Surface mount

→ p. 81

**LEM-3**  
3-Call Audio Master Station  
(for applications using two or three door/sub stations)

- Surface mount

→ p. 81

2 wires Aiphone #822202 (max. 650' between master and farthest sub)

2 wires (max. 66')

**SKK-620C**  
6V DC, 200mA Power Supply

→ p. 95

## Accessories

**KMB-45**  
45° Mullion Mounting Bracket for LE-D

→ p. 91

**SBX-1G**  
Surface Mount Box for LE-SS-1G

→ p. 90

**SBX-2G/A**  
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR

→ p. 90

**SSB-2**  
Ceiling Support Bracket for SP-20N/A

→ p. 93

**SBX-NVP/A**  
Surface Mount Box for LS-NVP/C

→ p. 90

**NP-25V**  
33μF, 25V Non-Polarized Capacitor

→ p. 93

**LT-1**  
20Ω-to-8Ω Matching Transformer

→ p. 80

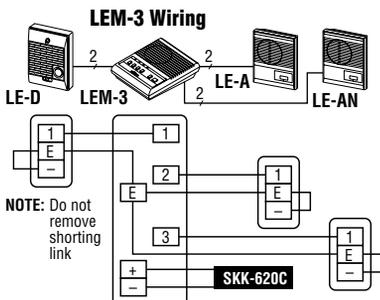
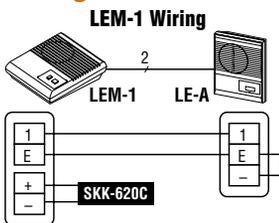
## Master Station Features

- Voice volume control

## System Features

- Push-to-talk at master and hands-free at remote

## Wiring



## Dimensions

	INCHES					MILLIMETERS				
	Height	Width	Depth	Recessed	Diameter	Height	Width	Depth	Recessed	Diameter
<b>BA-1</b>	4-1/8"	2-1/2"	1-1/2"	-	-	105	64	38	-	-
<b>LE-A, LE-AN, LEM-1</b>	6-5/16"	5-3/16"	2"	-	-	160	131	51	-	-
<b>LEM-3</b>	7-1/16"	5-5/8"	2-1/8"	-	-	180	143	53.5	-	-
<b>LE-B, LE-BN</b>	8-3/16"	6"	2"	9/16"	-	208	153	50.5	15	-
<b>LE-D</b>	4-3/4"	3-7/16"	1-1/8"	-	-	120	88	29	-	-
<b>LE-DA</b>	4-1/2"	4-9/16"	*	-	-	115	116	*	-	-
<b>LE-SS/A, LE-SSR</b>	4-3/4"	4-3/4"	*	-	-	119.89	119.89	*	-	-
<b>LE-SS-1G</b>	4-1/2"	2-3/4"	*	-	-	114.3	69.85	*	-	-
<b>LS-NVP/C</b>	7-1/2"	5-1/2"	*	-	-	191	140	*	-	-
<b>SP-20N/A</b>	-	-	**	-	12-7/8"	-	-	**	-	327

\* Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.  
 \*\* SP-20N/A has a 3/8" depth projection from the surface.

## Specifications

- Power Source** 6V DC—use SKK-620C
- Communication** Push-to-talk (simplex)
- Door Release** N/A
- Wire Type** Door Station or Sub Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance** Door Station or Sub Station to Master Station: 650' (22 AWG) 1,570' (18 AWG)

### Door Stations: select 1

**LE-D**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 80

**LE-SS-1G**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 1-gang box)

→ p. 80

**LE-DA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 80

**LS-NVP/C**  
Audio Door Station

- Powder-coated steel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)

→ p. 80

### Master Stations: select 1

**LEM-1DL**  
Audio Master Station

- Door release button

→ p. 81

**LEM-1DLC**  
Audio Master Station

- Multi-master (max. four)
- Door release button
- Occupied LED

→ p. 81

**LEM-1DL**  
2 + 2 wires  
Aiphone #822202  
(max. 650' between door and farthest master)

**LEM-1DLC**  
3 + 2 wires  
Aiphone #822203 and #822202  
(max. 650' between door and farthest master)

**PT-1210NA**  
12V AC Transformer  
(one required per master station)

→ p. 95

### Master Stations: select 1 (optional)

**LEM-1DL**  
Audio Master Station

(requires one DAK-2S per every two LEM-1DL master stations in the system)

- Door release button

→ p. 81

**LEM-1DLC**  
Audio Master Station

- Multi-master (max. four)
- Door release button
- Occupied LED

→ p. 81

### Accessories

**KMB-45**  
45° Mullion Mounting Bracket for LE-D

→ p. 91

**SBX-1G**  
Surface Mount Box for LE-SS-1G

→ p. 90

**SBX-2G/A**  
Surface Mount Box for LE-DA, LE-SS/A, or LE-SSR

→ p. 90

**SBX-NVP/A**  
Surface Mount Box for LS-NVP/C

→ p. 90

**EL-12S**  
Electric Door Strike  
(requires PT-1210NA)

→ p. 89

**DAK-2S**  
Dual Master Adaptor Kit  
(required per two LEM-1DL master stations—not required for LEM-1DLC master stations)

→ p. 94

**RY-AC/A**  
External Signaling Relay  
(requires shared PS-1208UL with LEM-1DL and DAK-2S or shared PS-1208UL with LEM-1DLC)

→ p. 94

### Box Set

**LEM-1DLS:**  
LEM-1DL, LE-D, and PT-1210NA

## Master Station Features

- Door release (N/O contact)
- Calling and two-way communication with door station
- Call tone and voice volume control

## System Features

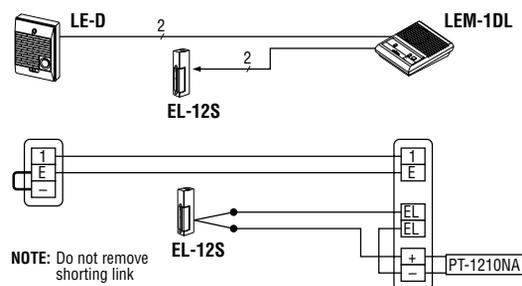
- 12–16V AC or 12–24V DC powered
- Any LE or LS Series door station is compatible

## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
LE-D	4-3/4"	3-7/16"	1-1/8"	120	88	29
LE-DA	4-1/2"	4-9/16"	*	115	116	*
LEM-1DL, LEM-1DLC	7-1/16"	5-5/8"	2-1/8"	180	143	53.5
LE-SS/A, LE-SSR	4-3/4"	4-3/4"	*	119.89	119.89	*
LE-SS-1G	4-1/2"	2-3/4"	*	114.3	69.85	*
LS-NVP/C	7-1/2"	5-1/2"	*	191	140	*

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

## Wiring



## Specifications

- Power Source** 12–16V AC—use PT-1210NA or 12–24V DC—use PS-1208UL
- Communication** Push-to-talk (simplex)
- Door Release** N/O dry contact, 30V AC/DC, 1A
- Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802  
Between LEM-1DLCs: 3-cond., overall shield—use Aiphone #822203 or #821803
- Distance** Door Station to farthest Master Station: 650' (22 AWG) 1,570' (18 AWG)

**Box Sets: select 1** (door station not sold separately—choose C-123L/A for a 1 x 1 system or C-123LW for a 1 x 2 system)



**C-123L/A**  
Single Master Station  
Box Set with C-D  
and C-ML/A



**C-123LW**  
Dual Master Station  
Box Set with C-D, 2  
C-ML/As, and DAK-2S

available only as  
**BOX SETS**

## Door Station

(select a box set)



**C-D**  
Audio Door  
Station  
(included with both  
C-123L/A and  
C-123LW box sets—  
not sold separately)  
• Plastic chassis  
• Weather resistant  
• Surface mount  
→ p. 55

## Master Station (one included with C-123L/A box set and two included with C-123LW box set)

**C-ML/A**  
Audio Master  
Station  
(includes DAK-2S  
dual master  
adaptor kit)  
• Surface mount  
→ p. 55



2 x 2 wires  
Aiphone #822202  
(max. 245' between door  
and farthest master)

**C-ML/A**  
Audio Master  
Station  
(includes DAK-2S  
dual master  
adaptor kit)  
• Surface mount  
→ p. 55



2 wires  
Aiphone #822202  
(max. 245' between door  
and farthest master)

2 wires

Door Strike  
and Power

2 wires  
Aiphone  
#822202

2 wires  
Aiphone  
#822202

**SKK-620C**  
6V DC, 200mA Power Supply  
→ p. 95  
or four C batteries

**SKK-620C**  
6V DC, 200mA Power Supply  
→ p. 95  
or four C batteries

## Accessories



**KMB-45**  
45° Mullion  
Mounting Bracket  
for C-D  
→ p. 91



**EL-12S**  
Electric Door Strike  
for Wood Frames  
(requires PT-1210NA)  
→ p. 89

## Door Station Features

- Any LE or LS Series door station can replace C-D
- LE-D is physically identical to C-D

## Master Station Features

- Adjustable communication volume
- Batteries or 6V DC power supply (one per master)
- Automatically turns off in 20 seconds

## System Features

- Single master station box set includes a door station and master station (power sold separately)
- Dual master station box set includes a door station, two master stations, and a dual master adaptor kit (power sold separately)
- Push-to-talk door answering with door release

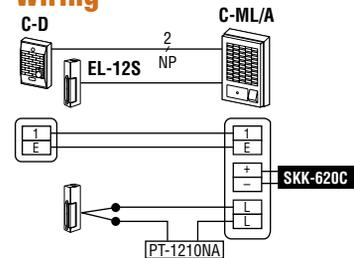
## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>C-D</b>	4-3/4"	3-7/16"	1-1/8"	120	88	29
<b>C-ML/A</b>	7-1/2"	5-1/8"	1-3/4"	190	130	43

## Specifications

- Power Source:** 6V DC—use SKK-620C or four C batteries
- Communication:** Push-to-talk (simplex)
- Door Release:** N/O dry contact, 50V AC, 1A
- Wire Type:** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance:** Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

## Wiring



Are your customers looking for a solution similar to our C-123L/A or C-123LW Sets, but need video with the door release feature?

Check out the JS Series Economy Video Doorbell | [aiphone.com/glc\\_js-series](http://aiphone.com/glc_js-series)



## Box Set



**CCS-1A**  
Box Set with  
CC-DA and CC-1M

available only as  
a **BOX SET**

### Door Station (select the box set)



**CC-DA**  
Audio Door Station  
(included with  
CCS-1A box set –  
not sold separately)

- Plastic chassis
- Weather resistant
- Surface mount  
→ p. 55

### Master Station (select the box set)



**CC-1M**  
Audio Master Station  
(included with CCS-1A  
box set – not sold separately)

- Chime and voice  
volume controls  
→ p. 55

2 wires  
Aiphone #822202  
(max. 245' between door and master)

PT-1210NA  
12V AC  
Transformer  
→ p. 95

2 wires  
Aiphone  
#822202

### Door Station Features

- Backlit call button

### Master Station Features

- Chime and voice volume controls

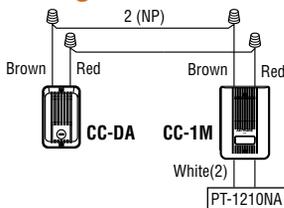
### System Features

- Box set includes a door station and master station (power sold separately)
- Push-to-talk door answering with automatic shut-off
- Powered by AC transformer PT-1210NA

### Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
CC-1M	7-1/16"	4-13/16"	1-5/16"	180	123	33
CC-DA	4-1/2"	2-3/4"	1-3/16"	114	70	30

### Wiring



### Specifications

- Power Source** 12 – 16V AC (with no-load voltage rating, 20V or less)—use PT-1210NA
- Communication** Push-to-talk (simplex)
- Door Release** N/A
- Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance** Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

Are your customers looking for a solution similar to our CCS-1A Set, but need video too?

Check out the WL-11 Wireless Video Intercom | [aiphone.com/glc\\_WL-11](http://aiphone.com/glc_WL-11)



## Door Stations: mix and match up to 2



**AX-DM**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount

→ p. 53



**IF-DA**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount

→ p. 62



**IE-JA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)

→ p. 62



**IE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

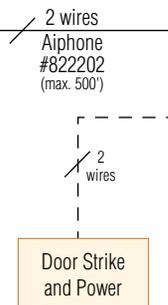
→ p. 62



**IE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

→ p. 62



## Master Station



**IE-8MD**  
6-Call Audio Master Station

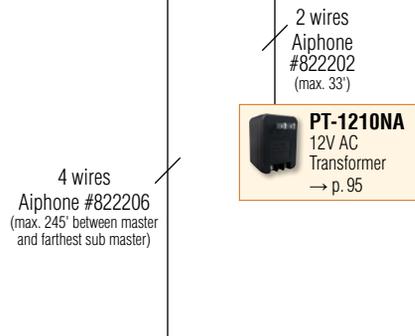
- Handset for privacy

→ p. 62



**PT-1210NA**  
12V AC Transformer

→ p. 95



## Sub Master Station: select up to 5 (optional)



**IE-8HD**  
6-Call Audio Sub Master Station

- Handset for privacy

→ p. 62

## Accessories



**SBX-2G/A**  
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR

→ p. 90



**EL-12S**  
Electric Door Strike for Wood Frames (requires PT-1210NA)

→ p. 89



**RY-AC/A**  
External Signaling Relay

→ p. 94

## Door Station Features

- Two wires to door stations, same as doorbell

## Master Station Features

- Selective Call or All Call between handsets
- Simple 4-conductor wiring between handsets

## System Features

- Two doors with Selective Door Release
- External doorbell can be added
- 12–16V AC or 12–18V DC powered

## Specifications

**Power Source** 12–16V AC—use PT-1210NA or 12–18V DC—use PS-1225UL

**Communication** Handset (full-duplex)

**Door Release** N/O dry contact, 24V AC/DC, 350mA

**Wire Type** Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202

Master Station to Sub Stations: 4-cond., overall shield—use Aiphone #822206

**Distance** Door Station to Master Station: 500' (22AWG) 1,180' (18AWG)

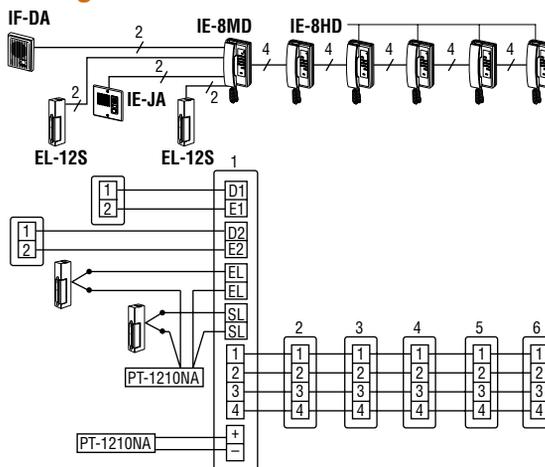
Master Station to farthest Sub Master Station: 245' (22AWG) 580' (18AWG)

## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
<b>AX-DM</b>	6-5/16"	1-11/16"	7/8"	160	43	22.5
<b>IE-8MD, IE-8HD</b>	8-1/4"	4-5/16"	3-1/8"	210	110	79
<b>IE-JA</b>	4-1/2"	4-9/16"	*	115	116	*
<b>IE-SS/A, IE-SSR</b>	4-3/4"	4-3/4"	*	121	121	*
<b>IF-DA</b>	5-1/8"	3-7/8"	1-1/8"	130	98	28.5

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

## Wiring



# AT-406 Series Handset to Handset Intercom

**Master Station**



**AT-206**  
White Audio Master Station  
*(not sold separately)*

- Handset for privacy → p. 52

2 wires  
Aiphone #822202  
(max. 2,300')

2 wires  
(max. 12')



**SKK-620C**  
6V DC, 200mA Power Supply  
→ p. 95  
or four AA batteries

**Sub Station: select up to 3**



**AT-306**  
White Audio Sub Station

- Handset for privacy → p. 52

**Box Sets**



**AT-406 (white):**  
AT-206 and AT-306

OR

**Master Station**



**AT-206B**  
Charcoal Gray Audio Master Station  
*(not sold separately)*

- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles → p. 52

2 wires  
Aiphone #822202  
(max. 2,300')

2 wires  
(max. 12')



**SKK-620C**  
6V DC, 200mA Power Supply  
→ p. 95  
or four AA batteries

**Sub Station**



**AT-306B**  
Charcoal Gray Audio Sub Station  
*(not sold separately)*

- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles → p. 52

**Box Sets**



**AT-406B/A (charcoal gray):**  
AT-206B and AT-306B with 4' coil cord

## Master/Sub Station Features

- Call button on master rings all the subs
- Power supply or battery powered
- Sub(s) ring master only

## System Features

- Up to two additional subs can be added (AT-306)

## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
AT-206, AT-206B, AT-306, AT-306B	8-1/4"	3-1/8"	2-1/16"	210	80	52

## Specifications

**Power Source** 6V DC—use SKK-620C or four AA batteries

**Communication** Handset (full-duplex)

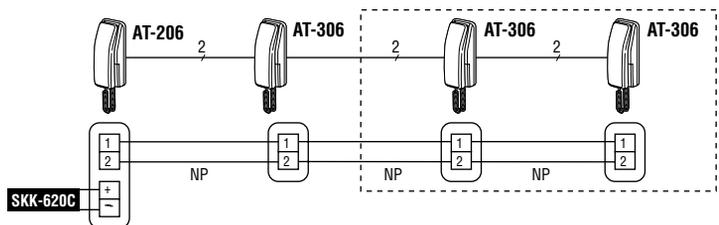
**Door Release** N/A

**Wire Type** Master Station to Sub Station: 2-cond., overall shield—use Aiphone #822202

**Distance** Two-Station Set: 2,300' (22 AWG) 5,250' (18 AWG)

Master Station to third Sub Station:  
1,350' (22 AWG) 3,100' (18 AWG)

## Wiring



## Master Station: select up to 60



**MC-60/4A**  
Audio MarketCom Master Station

- Four communication channels with LED indicators
- Easy access page button
- Handset for privacy → p. 82

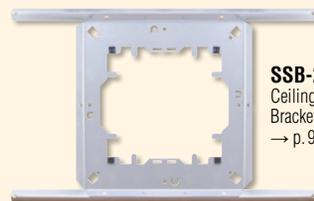
7 wires  
Aiphone #852207  
(see wire distance in specifications below)



**MC-60/4A**  
Audio MarketCom Master Station

- Four communication channels with LED indicators
- Easy access page button
- Handset for privacy → p. 82

## Accessories



**SSB-2**  
Ceiling Support Bracket for SP-2570N  
→ p. 93

## Paging Amplifiers (1 required for system paging)



**MD35M**  
35W Paging Amplifier  
→ p. 93



**MD60M**  
60W Paging Amplifier  
→ p. 93



**MD120M**  
120W Paging Amplifier  
→ p. 93

7 wires  
Aiphone #852207  
(see wire distance in specifications below)

## Paging Adaptor (1 required for system paging)



**MC-A/A**  
Paging Adaptor  
→ p. 82



**PS-2420UL**  
24V DC, 2A Power Supply  
→ p. 95

2 wires  
Aiphone #822202  
(max. 16')

2 wires  
Aiphone #822202  
(max. 50')

2 wires  
Aiphone #821802

## Paging Speaker: install number of speakers needed (based on amplifier wattage)



**MH-15W**  
Multi-Tap Horn Speaker

- 8Ω direct tap
- Built-in transformer for 25/70/100V systems
- Lightweight aluminum
- Weatherproof and waterproof
- Indoor and outdoor use
- Universal mounting bracket → p. 92



**SP-2570N**  
Ceiling Speaker

- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount → p. 93

## System Features

- Maximum 60 station paging and communication system
- Selective four talk channels with in-use LED's
- Conference call among three stations
- Music goes mute while paging
- Reinforced modular coil cord on MC-60/4A

## Dimensions

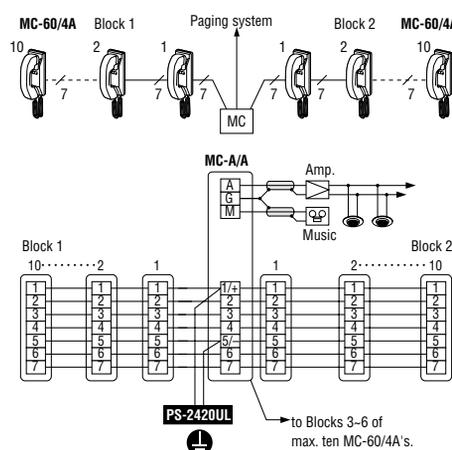
	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
<b>MC-60/4A</b>	9-3/16"	3-9/16"	3-11/16"	-	234	90	94	-
<b>MC-A/A</b>	2"	3-9/16"	5-5/8"	-	51.5	91	143	-
<b>MD35M, MD60M, MD120M</b>	1-3/4"	8-1/2"	12-1/2"	-	44.5	215.9	317.5	-
<b>MH-15W</b>	9"	9"	9-1/2"	-	229	229	241	-
<b>SP-2570N</b>	-	-	**	12-7/8"	-	-	**	327

\*\*SP-2570N has a 3/8" depth projection from the surface.

## Specifications

- Power Source** 24V DC—use PS-2420UL
- Communication** Handset (full-duplex)
- Door Release** N/A
- Wire Type** 7-cond., non-twisted, low capacitance, PE insulation—use Aiphone #852207
- Distance** Paging Adaptor to farthest Master Station on block: 1,700' (22 AWG) 4,000' (18 AWG)  
Total cumulative wiring between Paging Adaptor and Master Stations: 5,000' (22 AWG)

## Wiring



# TD-H Series Selective Call Intercom

## Door Stations: mix and match up to 2 (counts toward total capacity of 25 stations)



**AX-DM**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount → p. 53



**IF-DA**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount → p. 62



**IE-JA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box) → p. 62



**IE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box) → p. 62



**IE-SSR**  
Audio Door Station

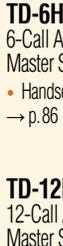
- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box) → p. 62

## Master Stations: mix and match up to 25 (mix and match up to 23 if using the maximum of 2 door stations or mix and match up to 11 if using the maximum of 2 door stations and 12 paging adaptors)



**TD-1H/B**  
1-Call Audio Master Station  
*(cannot be used for door answering)*

- Handset for privacy → p. 86



**TD-6H/B** (not shown)  
6-Call Audio Master Station

- Handset for privacy → p. 86



**TD-24H/B**  
24-Call Audio Master Station

- Handset for privacy → p. 86



**TD-3H/B** (not shown)  
3-Call Audio Master Station

- Handset for privacy → p. 86



**TD-12H/B** (not shown)  
12-Call Audio Master Station

- Handset for privacy → p. 86

## Accessories



**SBX-2G/A**  
Surface Mount Box for IE-JA, IE-SS/A, or IE-SSR → p. 90



**SSB-2**  
Ceiling Support Bracket for SP-2570N → p. 93



**TDW-nA**  
Terminal Box for TD-nH/B (n=1, 3, 6, 12 or 24) → p. 87



**RY-AC/A**  
External Signaling Relay → p. 94

## Paging Adaptors: mix and match up to 12 (counts toward total capacity of 25 stations and requires 1 paging amplifier per paging adaptor)



**PD-1**  
Zone Paging Adaptor → p. 87



**PD-2**  
Zone Paging / Talkback Adaptor → p. 87

## Paging Speaker: install number of speakers needed (based on amplifier wattage)



**MH-15W**  
Multi-Tap Horn Speaker

- 8Ω direct tap
- Built-in transformer for 25/70/100V systems
- Lightweight aluminum
- Weatherproof and waterproof
- Indoor and outdoor use
- Universal mounting bracket → p. 92



**SP-2570N**  
Ceiling Speaker

- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount → p. 93

## Paging Amplifiers (1 required per paging adaptor)



**MD35M** (not shown)  
35W Paging Amplifier → p. 93



**MD60M** (not shown)  
60W Paging Amplifier → p. 93



**MD120M**  
120W Paging Amplifier → p. 93

## System Features

- Up to 2 door stations and 23 master stations can be installed
- 1, 3, 6, 12, and 24-call handset audio master stations available
- Paging zone(s) with optional talkback
- External signaling device when calling a handset (requires RY-AC/A)

## Wiring

There are many different wiring configurations possible with the TD-H Series. For additional help, contact Aiphone's Technical Support.

**tech\_dept@aiphone.com | 800.692.0200**

## Specifications

- Power Source** 12V DC—use PS-1225UL
- Communication** Handset (full-duplex)
- Door Release** N/O dry contact, 30V AC/DC, 1A (at DE-UR)
- Wire Type** Door Station to DE-UR: 2-cond., overall shield—use Aiphone #822202
- DE-UR to Master Station: 6-cond., overall shield—use Aiphone #822206
- TD-1H/B: 6-cond., overall shield—use Aiphone #822206
- TD-3H/B, TD-6H/B: 10-cond., overall shield—use Aiphone #822210
- TD-12H/B, TD-24H/B: 16-cond., overall shield—use Aiphone #812216 (two runs of 812216 are required for full functionality of the TD-24H/B)
- Distance** Door Station to Adaptor: 500' (22 AWG) 1,200' (18 AWG)
- Between Master Stations: 2,000' (22 AWG) 4,800' (18 AWG)

## Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
<b>AX-DM</b>	6-5/16"	1-11/16"	7/8"	-	160	43	22.5	-
<b>DE-UR</b>	6-5/16"	5-7/8"	1-3/4"	-	160	150	45	-
<b>IE-JA</b>	4-1/2"	4-9/16"	*	-	115	116	*	-
<b>IE-SS/A, IE-SSR</b>	4-3/4"	4-3/4"	*	-	121	121	*	-
<b>IF-DA</b>	5-1/8"	3-7/8"	1-1/8"	-	130	98	28.5	-
<b>MD35M, MD60M, MD120M</b>	1-3/4"	8-1/2"	12-1/2"	-	44.5	215.9	317.5	-
<b>MH-15W</b>								
<b>PD-1, PD-2</b>	2"	3-9/16"	5-7/16"	-	51.5	90	138	-
<b>SP-2570N</b>	-	-	**	12-7/8"	-	-	**	327
<b>TD-nH/B (n = 1, 3, 6, or 12)</b>	8-1/4"	3-15/16"	2-7/8"	-	210	100	73	-
<b>TD-24H/B</b>	8-1/4"	3-15/16"	3-1/4"	-	210	100	83	-

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.  
\*\*SP-2570N has a 3/8" depth projection from the surface.

# IM Series Security Window Intercom

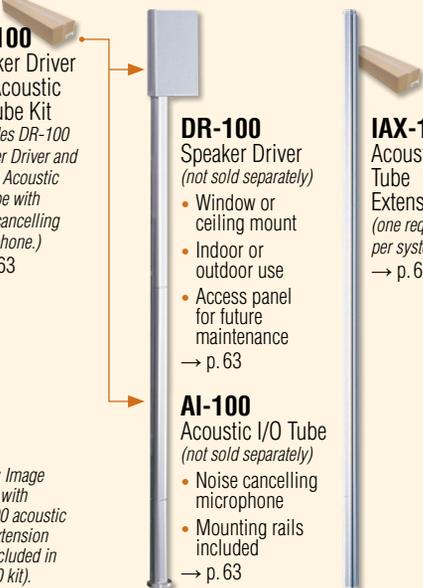
### Box Set



**IM-1**  
Box Set with  
IMU-100, IAI-100,  
IAX-100, IME-100,  
ISE-100, and PS-2420UL

**START with a BOX SET**

### Speaker Driver, Acoustic I/O Tube, & Tube Extension



**IAI-100**  
Speaker Driver and Acoustic I/O Tube Kit  
(includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)  
→ p. 63

**DR-100**  
Speaker Driver  
(not sold separately)

- Window or ceiling mount
- Indoor or outdoor use
- Access panel for future maintenance

→ p. 63

**IAX-100**  
Acoustic Tube Extension  
(one required per system)  
→ p. 63

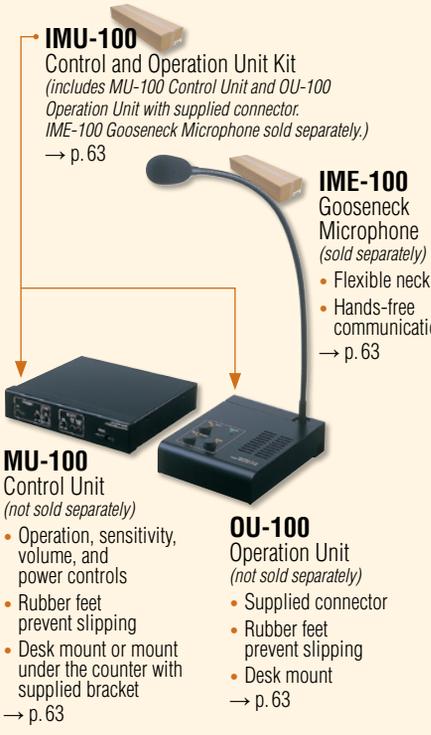
**AI-100**  
Acoustic I/O Tube  
(not sold separately)

- Noise cancelling microphone
- Mounting rails included

→ p. 63

**NOTE:** Image shown with IAX-100 acoustic tube extension (not included in IAI-100 kit).

### Control Unit & Operation Unit



**IMU-100**  
Control and Operation Unit Kit  
(includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector.  
IME-100 Gooseneck Microphone sold separately.)  
→ p. 63

**IME-100**  
Gooseneck Microphone  
(sold separately)

- Flexible neck
- Hands-free communication

→ p. 63

**MU-100**  
Control Unit  
(not sold separately)

- Operation, sensitivity, volume, and power controls
- Rubber feet prevent slipping
- Desk mount or mount under the counter with supplied bracket

→ p. 63

**OU-100**  
Operation Unit  
(not sold separately)

- Supplied connector
- Rubber feet prevent slipping
- Desk mount

→ p. 63

2 wires Aiphone #822202 (max. 66')

2 wires Aiphone #821802 (max. 66')

2 wires Aiphone #821802 (max. 66')

**PS-2420UL**  
24V DC, 2A Power Supply  
→ p. 95

### Accessories



**ISE-100**  
Proximity Sensor  
→ p. 63

**SP-2570N**  
8Ω, 25/70V, 5W Ceiling Speaker  
→ p. 93

**SSB-2**  
Ceiling Support Bracket for SP-2570N  
→ p. 93

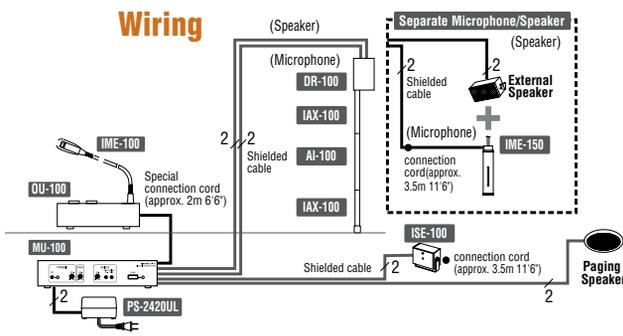
## System Features

- Inconspicuous units do not obscure faces of those approaching a ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- Computer style headset can be used (not supplied by Aiphone)
- Uses voice-actuated communication (VOX) system, requiring no additional operations during conversation
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present

## Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
<b>AI-100</b>	15-1/4"	1-1/16"	15/16"	-	388	27	24	-
<b>DR-100</b>	5-7/8"	3-5/16"	1-7/16"	-	150	84	36	-
<b>IAX-100</b>	39-3/8"	1-1/16"	15/16"	-	1000	27	24	-
<b>IME-100</b>	20-1/16"	-	-	9/16"	510	-	-	14
<b>ISE-100</b>	2-3/8"	2-7/8"	1-3/16"	-	60	72	30	-
<b>MU-100</b>	1-3/4"	8-1/4"	8-1/8"	-	45	210	206	-
<b>OU-100</b>	1-15/16"	5-1/8"	6-5/16"	-	49	130	160	-

## Wiring



## Specifications

- Power Source** 24V DC, 120mA standby, 780mA max.—use PS-2420UL
- Communication** Hands-free (VOX) or push-to-talk (simplex)  
Transmit output: 3W 4Ω  
Receive output: 1.5W 16Ω
- Door Release** N/A
- Wire Type** Speaker Driver to Control Unit: 2 x 2-cond., overall shield—use Aiphone #822202 or #821802  
Power Supply to Control Unit: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance** Power Supply or Speaker Driver to Control Unit: 66' (22 AWG/18 AWG)

## Sub Stations: mix and match up to 10 per trunk with up to 8 trunks



### NH-1SA/A

Single-Jack Bedside Audio Sub Station

- One jack for bedside call button
- Hands-free communication
- Flush mount (fits 2-gang box) → p. 83

### NH-2SA/A (not shown)

Dual-Jack Bedside Audio Sub Station

- Two jacks for bedside call buttons
- Hands-free communication
- Flush mount (fits 2-gang box) → p. 83



### NHR-3TS

Dual Corridor Light Sub Station

- (required for NHR-7A if NH-1SA/A or NH-2SA/A are not used)
- Allows the urgent call pull cord to be used without the need for a bedside station
  - Two lights indicate call location
  - Stainless steel cover
  - Flush mount (fits 2-gang box) → p. 83

One bedside call button is required per sub station jack



### NHR-8C

Bedside Call Button

- Button activates routine call at master
- Cord-out activates urgent call at master → p. 83

### NHR-8A-L (not shown)

Bedside Call Button

- (not UL 1069 Listed)
- Button activates routine call at master
  - Cord-out activates urgent call at master
  - Latching call button
  - Gray color

## Central Control Unit



### NHX-80X

Central Control Unit

- Controls system functions with microprocessor
- Compact, slim design
- Screwless wire connectors → p. 82



### NHR-30K

30-Call Add-On Truck Card

- (required for NHX-30G)
- Installs into NHX-80X
  - Provides additional capacity for NHX-30G Add-On Selector → p. 82

## Master Station



### NHX-50M

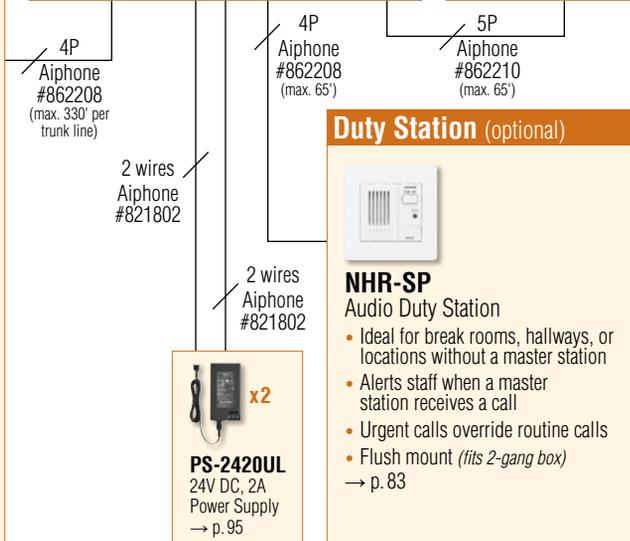
50-Call Audio Master Station

- Priority level LED indicator
- Automatically connects to next call in priority
- Handset or push-to-talk communication
- Desk mount → p. 83

### NHX-30G

30-Call Add-On Selector

- (requires NHR-30K to be installed into NHX-80X)
- Plugs into NHX-50M with supplied connectors
  - Expands NHX-50M to an 80-call master station → p. 83



## Accessories



### NHR-7A

Urgent Call Pull Cord



### NHR-4A/A

LED Corridor Light

(red and amber LEDs) → p. 83

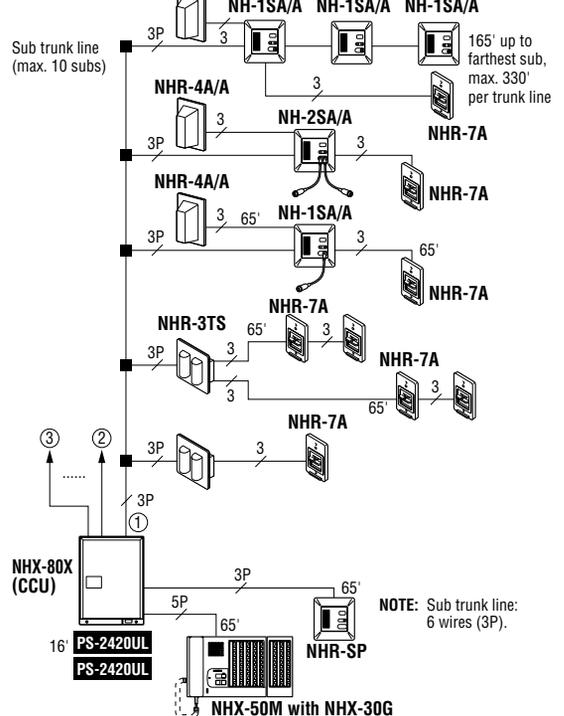
## System Features

- One master, one duty, and up to 80 sub stations
- Single- and dual-jack bedside sub stations
- Multi-station capability per patient room
- Three types of call-ins from sub stations: routine call, bathroom call and cord-out trouble call, identified by tone and blinking LED (with priority according to urgency and time of call)
- NHR-3TS sub station is ideal for common areas
- Duty station for call annunciation in separate area

## Specifications

See p. 82-83

## Wiring



## Dimensions

	INCHES			MILLIMETERS		
	Height	Width	Depth	Height	Width	Depth
NH-1SA/A, NH-2SA/A, NHR-SP	4-3/4"	4-9/16"	1-13/16"	120	116	46
NHR-3TS	4-3/4"	4-9/16"	2-7/8"	120	116	73
NHR-4A/A	4-3/4"	2-3/4"	1-1/16"	120	70	27
NHR-7A	4-1/2"	2-13/16"	1-3/4"	115	71	44
NHX-30G	8-1/4"	3-9/16"	2-5/16"	210	90	58.5
NHX-50M	8-1/4"	11"	3-11/16"	210	280	94
NHX-80X	18-1/8"	13-3/8"	3-7/8"	460	340	98

# NIM Series Lamp Tone Intercom

**Door Station, Sub Station, Ceiling Speaker, & Wall Jacks: mix and match up to 20 or 40 (based on master station selection)**



**NI-JA**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box) → p. 84



**NI-BA**  
Audio Sub Station

- Surface mount → p. 84



**NI-LB**  
Ceiling Speaker  
(use NI-SB or NIR-MB for hands-free reply)

- Call-in LED
- Indoor use
- Flush mount → p. 84



**NIR-HP**  
Wall Jack for NI-RC

- Flush mount (fits 1-gang box) → p. 85



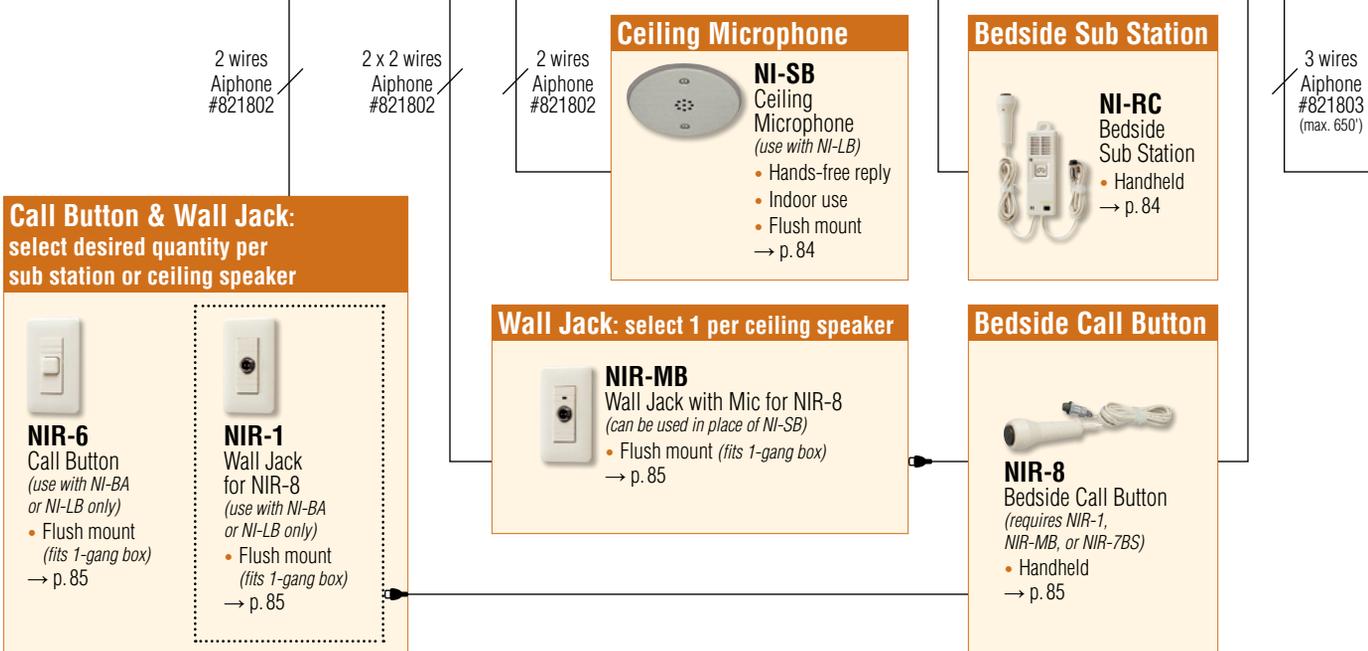
**NIR-HPF**  
Wall Jack for NI-RC

- Includes hook to hang NI-RC
- Flush mount (fits 2-gang box) → p. 85



**NIR-7BS**  
Wall Jack with LED Call Indicator for NIR-8

- Flush mount (fits 1-gang box) → p. 85



**Call Button & Wall Jack: select desired quantity per sub station or ceiling speaker**



**NIR-6**  
Call Button  
(use with NI-BA or NI-LB only)

- Flush mount (fits 1-gang box) → p. 85



**NIR-1**  
Wall Jack for NIR-8 (use with NI-BA or NI-LB only)

- Flush mount (fits 1-gang box) → p. 85

**Ceiling Microphone**



**NI-SB**  
Ceiling Microphone  
(use with NI-LB)

- Hands-free reply
- Indoor use
- Flush mount → p. 84

**Bedside Sub Station**



**NI-RC**  
Bedside Sub Station

- Handheld → p. 84

**Wall Jack: select 1 per ceiling speaker**



**NIR-MB**  
Wall Jack with Mic for NIR-8  
(can be used in place of NI-SB)

- Flush mount (fits 1-gang box) → p. 85

**Bedside Call Button**



**NIR-8**  
Bedside Call Button  
(requires NIR-1, NIR-MB, or NIR-7BS)

- Handheld → p. 85

- ### Master Station Features
- Master in 20 and 40-station sizes
  - Built-in All Call, Selective Call, and Group Call
  - Push-to-talk at master or use handset
  - Group Call up to five subs at a time
  - Incoming calls remain lit until answered (max. 10)
  - Separate transmit and receive volume controls
  - Adjustable ring tone (melody or chime)
  - Automatic ringtone volume level (increases after 90 seconds)

- ### System Features
- Optional software for call event logging (NI-SOFT)

- ### Specifications
- Power Source:** 48V DC—use IS-PU-UL
  - Communication:** Handset (VOX) or push-to-talk (simplex)
  - Door Release:** N/A
  - Wire Type:** Door Station, Sub Station, Ceiling Speaker, or Wall Jack to Master Station: 3-cond. overall shield—use Aiphone #821803  
 Call Button or Corridor Lamp to Sub Station: 2 cond. overall shield—use Aiphone #821802  
 NIR-MB to Ceiling Speaker: 4-cond. overall shield—use two runs of #821802
  - Distance:** Door Station or Sub Station to Master Station: 650' (18 AWG)  
 Power Supply to Master Station: 33' (18 AWG)

**NOTE:** If your application requires product to be UL 1069 Listed for hospital signaling and skilled nursing facilities, please see the NHX Series on p. 47

### Wiring

There are many different wiring configurations possible with the NIM Series.

For additional help, contact Aiphone's Technical Support.

**800.692.0200**



Audio Intercoms

## Master Stations: select 1



### NIM-20B 20-Call Audio Master Station

- Supports up to 20 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy → p. 84



### NIM-40B 40-Call Audio Master Station

- Supports up to 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy → p. 84

2 wires  
Aiphone  
#821802  
(max. 33')



**IS-PU-UL**  
48V DC, 2A  
Power Supply  
→ p. 95

## Accessories



**NIR-2**  
Call Reset  
Button  
→ p. 85



**NIR-4**  
Single Room  
Corridor Call Light  
→ p. 85



**NIR-4S**  
Multi-Room  
Corridor Call Light  
→ p. 85



**NIR-4BZ**  
Corridor Light with  
Tone Indicator  
→ p. 85



**NIR-42**  
Corridor Light with  
Call Reset Button  
→ p. 85



**NIR-31**  
Corridor Light with One  
Magnetic Nameplate  
→ p. 85



**NIR-32**  
Corridor Light with Two  
Magnetic Nameplates  
→ p. 85



**NIR-34**  
Corridor Light with Four  
Magnetic Nameplates  
→ p. 85



**NIR-7W**  
Bathroom  
Call Button  
→ p. 85



**NI-SOFT**  
Call Event Log  
PC Software  
(includes RS-232  
cable, approx. 40")  
→ p. 85



**IER-2**  
Call Extension  
Speaker  
→ p. 89



**NIR-7HW**  
Bathroom  
Call Button  
with Pull Cord  
→ p. 85



**SBX-2G/A**  
Surface Mount  
Box for NI-JA  
→ p. 90



**RY-ES**  
External  
Signaling Relay  
→ p. 94

## Dimensions

	INCHES				MILLIMETERS			
	Height	Width	Depth	Diameter	Height	Width	Depth	Diameter
NI-BA	5-7/8"	5-1/8"	1-5/16"	-	150	130	33	-
NI-JA	4-3/4"	4-3/4"	*	-	120	120	*	-
NI-LB	-	-	**	7-1/16"	-	-	**	180
NIM-20B	9-1/16"	13"	5-1/2"	-	230	330	140	-
NIM-40B	9-1/16"	18-7/8"	5-1/2"	-	230	480	140	-
NIR-1, NIR-2, NIR-4, NIR-4S, NIR-6, NIR-7BS, NIR-7HW, NIR-7W, NIR-HP, NIR-MB	4-3/4"	2-3/4"	*	-	120	70	*	-
NIR-31, NIR-32	5-11/16"	7-1/2"	1-9/16"	-	144	190	40	-
NIR-34	5-11/16"	12-1/16"	1-9/16"	-	144	306	40	-
NIR-42, NIR-4BZ, NIR-HPF	4-3/4"	4-9/16"	*	-	120	116	*	-
NIR-8	3-3/4"	-	-	1-7/16"	95	-	-	36
NI-RC	6-3/4"	2-3/16"	1-1/8"	-	171.5	56	28	-
NI-SB	-	-	**	4-1/8"	-	-	**	105

\*Aiphone recommends a 2-1/2" minimum back box depth for all flush mount stations.

\*\*NI-LB has a 9/16" depth projection from the surface and NI-SB has a 3/16" depth projection from the surface.



# IX Series Stations with UL Certification

Check out the IX Series product line for popular stations that make it easier to meet building code requirements.

## Why is having UL Certification important?

- UL is recognized as the leader in product safety testing
- UL certification is only granted through comprehensive procedures and guidelines
- UL requires that all standards are met prior to granting certification



[aiphone.com/glc\\_ixul](http://aiphone.com/glc_ixul)



# Accommodating Customers with ADA Compliancy

See a variety of simple intercom solutions to help comply with common ADA regulations.



- Door and master stations with t-coil compatibility
- Emergency call stations with lettering, braille, and LED call status indicator
- Compact wall boxes have proper signage and call button mounting height



[aiphone.com/glc\\_ada](http://aiphone.com/glc_ada)

# GSA Products Take Out the Guess Work

- ✓ Automatically meet TAA standards
- ✓ Wide selection of components
- ✓ Renewed contract for five years



*For information on our qualified components, reach out to your local rep or email us.*

[gsa@aiphone.com](mailto:gsa@aiphone.com)

## Select Components Qualify Under the Trade Agreements Act

Contact your local Aiphone representative to help select the right TAA components for your application.



[aiphone.com/glc\\_rep](http://aiphone.com/glc_rep)

# Components

## AT-406 Series Components

### Audio Master & Sub Stations



**AT-206**  
White Audio Master Station  
*(not sold separately)*

- Handset for privacy



**AT-306**  
White Audio Sub Station

- Handset for privacy



**AT-206B**  
Charcoal Gray Audio Master Station  
*(not sold separately)*

- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles



**AT-306B**  
Charcoal Gray Audio Sub Station  
*(not sold separately)*

- Handset for privacy
- 4' coil cord
- Designed for use in limos, RVs, boats, and other recreational vehicles

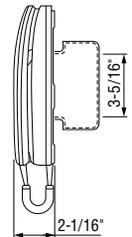
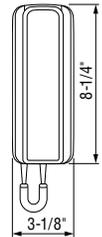
#### Features

- Call button on master rings all the subs
- Power supply or battery powered
- Sub(s) ring master only

#### Specifications

Power Source	6V DC—use SKK-620C or four AA batteries
Communication	Handset (full-duplex)
Wire Type	Master Station to Sub Station: 2-cond., overall shield—use Aiphone #822202
Distance	Two-Station Set: 2,300' (22 AWG) 5,250' (18 AWG) Master Station to third Sub Station: 1,350' (22 AWG) 3,100' (18 AWG)

#### AT-206, AT-206B, AT-306, AT-306B



## AX Series Components

### Master Stations & Add-On Selector



**AX-8MV**  
Video Master Station

- 3-1/2" LCD screen
- Wall or desk mount



**AX-8MV-W**  
Video Master Station  
*(recommended for an 8 x 8 system only)*

- 3-1/2" LCD screen
- White finish
- Wall or desk mount



**AX-8M**  
Audio Master Station

- Wall or desk mount



**AX-16SW**  
16-Call Add-On Selector for AX-8MV or AX-8M  
*(max. 7 per master)*

#### Features

- (AX-8MV, AX-8MV-W, AX-8M)
- Hands-free or push-to-talk communication
  - Two talk channels
  - Composite video output from CEU/video master stations
  - All Call or Group Call to master stations
  - Scan monitoring

#### Features

- (AX-16SW)
- Provides ability to select/call 16 additional door stations
  - Aesthetically matches AX-8M or AX-8MV

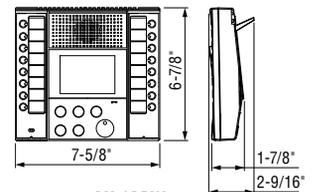
#### Specifications (AX-8MV, AX-8MV-W, AX-8M)

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	AX-8MV, AX-8MV-W: 3-1/2" LCD screen AX-8M: N/A
Door Release	Programmable dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)
Mounting	Surface mount directly to wall or desk mount—use MCW-S/B for an adjustable desk angle
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e
Distance	Central Exchange Unit to Master Station: 980'

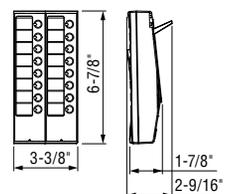
#### Specifications (AX-16SW)

Power Source	Supplied by Master Station
Calling Capacity	16 door/sub stations
Unit Capacity	Max. 7 for up to 112 additional door/sub stations (max. 120 door/sub stations per system)
Mounting	Mounts directly to Master Station or other AX-16SW with supplied brackets
Wire Type	Add-On Selector to Master Station: Ribbon cable (included with AX-16SW)

#### AX-8M, AX-8MV, AX-8MV-W



#### AX-16SW



# AX Series Components (continued)

## Video Door Stations



**AX-DV**  
Video Door Station

- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



**AX-DV-P\***  
Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Aluminum die cast cover
- Weather and vandal resistant
- Surface mount



**AX-DVF**  
Video Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)



**AX-DVF-P\***  
Card Access Video Door Station

- HID® ProxPoint® Plus Proximity Card Reader
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)

\*HID® stations require a third-party host. Power for card reader and door strike require additional wire.



Surface mount boxes available for flush mount stations! See p. 90

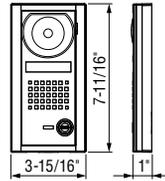
### Features

- Cat-5e wired to central exchange unit (980' max)
- Polycarbonate lens cover
- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions
- Embedded HID® ProxPoint® Plus card reader (AX-DV-P, AX-DVF-P)

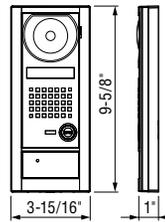
### Specifications

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Camera	Type: 1/4" CCD Area View: 2' 1" vertical x 3' 1" horizontal at 20°
Temp. Rating	14°~140°F (-10°~60°C)
Material	AX-DV, AX-DV-P: aluminum die cast AX-DVF, AX-DVF-P: stainless steel
Mounting	AX-DV, AX-DV-P: surface mount directly to wall AX-DVF: flush mount with included back box or surface mount with SBX-AXDVF AX-DVF-P: flush mount with included back box or surface mount with SBX-DVF-P
Wire Type	Door Station to Central Exchange Unit: Cat-5e
Distance	Door Station to Central Exchange Unit: 980'

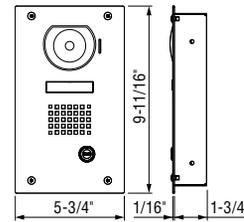
### AX-DV



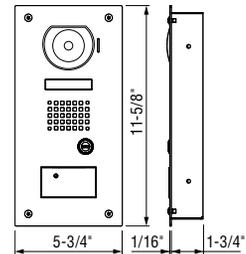
### AX-DV-P



### AX-DVF



### AX-DVF-P



## Audio Door Stations



**AX-DM**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Mullion surface mount



**IF-DA**  
→ p. 62



**IE-JA**  
→ p. 62



**IE-SS/A**  
→ p. 62



**IE-SSR**  
→ p. 62

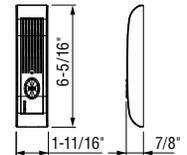
### Features (AX-DM)

- Mullion mounted door station
- Constructed with sturdy ABS plastic
- Weather resistant
- Can be used with AX Series, IE-8 Series, KB Series, or TD-H Series

### Specifications (AX-DM)

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Temp. Rating	14°~140°F (-10°~60°C)
Material	ABS plastic
Mounting	Surface mount directly to wall or mullion
Wire Type	Door Station to Central Exchange Unit: Cat-5e or 2-cond.
Distance	Door Station to Central Exchange Unit: 980'

### AX-DM



**Features (IF-DA, IE-JA, IE-SS/A, IE-SSR)**  
See p. 62

**Specifications (IF-DA, IE-JA, IE-SS/A, IE-SSR)**  
See p. 62

## Central Exchange Units



**AX-084C**  
Central Exchange Unit

- Supports up to 4 master stations and 8 door/sub stations



**AX-248C**  
Central Exchange Unit

- Supports up to 8 master stations and 24 door/subs stations



**AX-320C**  
Add-On Central Exchange Unit

- Supports up to 32 door/sub stations

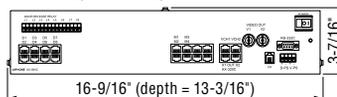
### Features

- Wiring hub for AX system using Cat-5e
- Two 24V DC power supply input terminals
- Rack mountable

### Features (additional for AX-084C, AX-248C)

- Controls all functionality of AX system
- Two BNC composite video outputs and video switching triggers
- CO line transfer (requires Viking K-1900-5 programmable auto-dialer)
- Programmable functionality via supplied software

### AX-084C, AX-248C, AX-320C



### Specifications

Power Source	24V DC—use two PS-2420ULs
Consumption	Video: 0.62A max. Audio: 0.65A max.
CO Line Port	RJ11 for Viking K-1900-5 programmable auto-dialer
Door Release	Programmable dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating)
Mounting	19" EIA rack (2U) or wall mount
Wire Type	Between Door/Sub Station, Master Station, and Central Exchange Unit: Cat-5e
Distance	Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 2-cond., overall shield—use Alphone 821802 Door/Sub Station to Central Exchange Unit and Add-On Central Exchange Unit: 980' Central Exchange Unit to Master: 980' Central Exchange Unit to Add-On Central Exchange Unit: 16' Power Supply to Central Exchange Unit and Add-On Central Exchange Unit: 16' (22 AWG) 33' (18 AWG)

# AX Series Components (continued)

## Audio Sub Stations



**AX-A**  
Audio Sub Station  
• Surface mount



**AX-AN**  
Privacy Audio Sub Station  
• Privacy button  
• Surface mount



**AX-B**  
Audio Sub Station  
• Semi-flush mount



**AX-BN**  
Privacy Audio Sub Station  
• Privacy button  
• Semi-flush mount

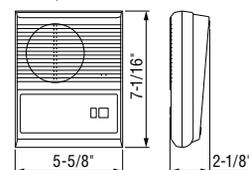
### Features

- Hands-free communication when master answers
- Constructed with sturdy ABS plastic
- Desk or wall mount (AX-A, AX-AN)
- Mounts directly to wall or 1-gang box (AX-A, AX-AN)
- Privacy feature blocks unwanted monitoring from master (AX-AN, AX-BN)

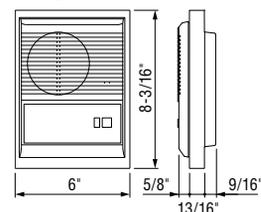
### Specifications

Power Source	Supplied by Central Exchange Unit
Communication	Hands-free
Material	ABS plastic
Mounting	AX-A, AX-AN: surface mount directly to wall AX-B, AX-BN: semi-flush mount
Wire Type	Sub Station to Central Exchange Unit: Cat-5e or 2-cond.
Distance	Sub Station to Central Exchange Unit: 980'

### AX-A, AX-AN



### AX-B, AX-BN



## Transmission & Reception Interface Units



**AXW-AVT**  
Audio/Video Transmitter



**AXW-AVR**  
Audio/Video Receiver

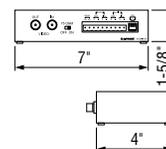
### Features

- Interfaces AX Series video door station with third-party alternate transmission methods for longer distances

### Specifications

Power Source	AXW-AVT: 24V DC, 500mA—use PS-2420UL AXW-AVR: supplied by Central Exchange Unit
Video In & Out	Composite 1Vpp, NTSC
Video Connectors	BNC
Relay	N/O contact output, 30V DC, 1A
Sensor	N/C contact input
Wire Type	Cat-5e, 24AWG UTP-4
Distance	AXW-AVT to Door Station (cumulative): max. 980' using Cat-5e AXW-AVR to Central Exchange Unit (cumulative): max. 980' using Cat-5e AXW-AVT or AXW-AVR to third-party devices: do not exceed 16'

### AXW-AVR, AXW-AVT



For a list of approved devices, visit [www.aiphone.com/ax](http://www.aiphone.com/ax) to download the AXW-AVT(R) instructions or contact Aiphone Technical Support at (800) 692-0200/tech@aiphone.com

## CCTV Input Module



**AXW-AZ**  
CCTV Input Module

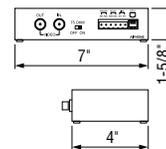
### Features

- Allows CCTV camera to be viewed on Aiphone video master station(s)
- Standard motion detector used to auto-activate camera
- Audio door station can be used for communication to camera location
- Relay output to trigger external device when CCTV camera is activated
- Video output for connection to standard CCTV monitor or recorder for full time video signal
- Sensor input to trigger CCTV automatically
- Video output allows constant viewing of CCTV Camera

### Specifications

Power Source	Supplied by Central Exchange Unit
Video In/Out	75Ω composite video, 1V p-p
Video Connector	BNC
Video Monitoring	30 sec., controlled by Master Station
Camera Activation	N/C sensor input, or by Master Station
Wire Type	Cat-5e
Distance	Input Module to Central Exchange Unit: 980'

### AXW-AZ



## Paging Adaptor



**AXW-PA1**  
Paging Adaptor for AX Series

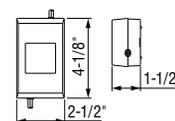
### Features

- Page from an intercom master station out to a PA system to make announcements or to locate a person
- Takes the place of a separate microphone for paging where there is an intercom
- School uses: page hallways, playground areas, cafeteria, etc.
- Medical facilities and/or office uses: page waiting areas, hallways, break rooms, etc.

### Specifications

Power Source	Supplied by Master Station or Central Exchange Unit
Input	Direct Central Exchange Unit connection
Output	600Ω
Output to Adaptor	0dB and -20dB, selectable
Requirements	AUX input (10kΩ) or 100mV for rated output
Wire Type	2-cond., overall shield—use Aiphone #822202

### AXW-PA1



# CCS-1A Set Components

## Audio Master Station



**CC-1M**  
Audio Master Station  
*(not sold separately)*

- Chime and voice volume controls

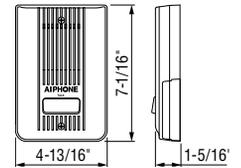
### Features

- Chime and voice volume controls

### Specifications

- Power Source 12–16V AC (with no-load voltage rating, 20V or less)—use PT-1210NA
- Communication Push-to-talk (simplex)
- Door Release N/A
- Mounting Surface mount directly to wall
- Wire Type Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

### CC-1M



## Audio Door Station



**CC-DA**  
Audio Door Station  
*(not sold separately)*

- Plastic chassis
- Weather resistant
- Surface mount

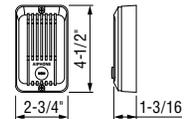
### Features

- Backlit call button

### Specifications

- Power Source Supplied by Master Station
- Communication Push-to-talk (simplex)
- Material Fire resistant ABS plastic
- Mounting Surface mount directly to wall
- Wire Type Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance Door Station to Master Station: 245' (22 AWG) 590' (18 AWG)

### CC-DA



# C-123L/A & C-123LW Sets Components

## Audio Master Station



**C-ML/A**  
Audio Master Station  
*(includes DAK-2S dual master adaptor kit)*

- Surface mount

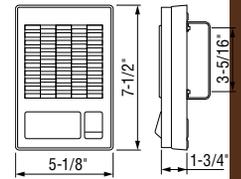
### Features

- Adjustable communication volume
- Batteries or 6V DC power supply (one per master)
- Automatically turns off in 20 seconds

### Specifications

- Power Source 6V DC—use SKK-620C or four C batteries
- Consumption 85mA
- Output 100mW
- Communication Push-to-talk (simplex)
- Door Release N/O dry contact, 50V AC, 1A
- Mounting Surface mount directly to wall
- Wire Type Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

### C-ML/A



## Audio Door Station



**C-D**  
Audio Door Station  
*(not sold separately)*

- Plastic chassis
- Weather resistant
- Surface mount

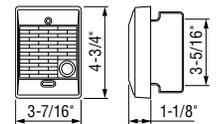
### Features

- Can be replaced with any LE or LS Series door station
- Physically identical to LE-D

### Specifications

- Power Source Supplied by Master Station
- Communication Push-to-talk (simplex)
- Temp. Rating 14°–140°F (-10°–60°C)
- Material Fire resistant ABS plastic
- Mounting Surface mount directly to wall
- Wire Type Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
- Distance Door Station to farthest Master Station: 245' (22 AWG) 590' (18 AWG)

### C-D



## Dual Master Adaptor Kit



**DAK-2S**  
→ p. 94

### Features

See p. 94

### Specifications

See p. 94

# DA Series Components

## Audio Tenant Station



**DA-1MD**  
Audio Tenant Station  
(included with DA-1AS box set)  
• Handset for privacy

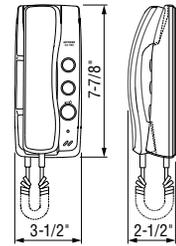
### Features

- Handset for privacy
- Service button to control an external device
- Call tone volume control with mute indicator
- Door release button (powered by door station)

### Specifications

- Power Source 15V AC—use PT-1211CA
- Communication Handset (full-duplex)
- Wire Type Entrance Station to Tenant Station: 2-cond., overall shield—use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802
- Power Supply to Tenant Station: 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802
- Distance Power Supply to Tenant Station: 180' (22 AWG) 510' (18 AWG)
- Entrance Station to Power Supply (cumulative): 360' (22 AWG) 1,020' (18 AWG)

### DA-1MD



## Entrance Stations



**DA-1DS**



**DA-2DS**



**DA-4DS**

### Features

See below

### Specifications

See below

# DB Series Components

## Audio Tenant Stations



**DB-1MD**  
Audio Hands-Free  
Tenant Master Station  
(included with DBS-1A box set)



**DB-1SD**  
Audio Hands-Free  
Tenant Sub Station

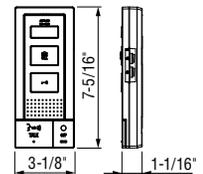
### Features

- All Call between stations in same residence/office
- Option button for external device control (N/O dry contact, AC/DC 24V 1.6A Max)
- Call tone volume control with LED mute indicator
- Receive volume control
- Optional Call Extension Speaker (IER-2)
- Optional external signaling to third-party bell or light using RY-ES (used in lieu of IER-2)
- Door release button (powered by door station)

### Specifications

- Power Source 15V AC—use PT-1211CA (requires one per tenant master station and one per two tenant sub stations)
- Communication Hands-free (VOX) or push-to-talk (simplex)
- Wire Type Entrance Station to Tenant Master Station: 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802
- Tenant Master Station to Tenant Sub Station: 4-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871804
- Between Tenant Sub Stations: 4-cond. + 2-cond. when sharing power - use Aiphone #822206 or #871804
- Distance Power Supply to Tenant Master Station: 180' (22 AWG) 510' (18 AWG)
- Tenant Master Station to farthest Tenant Sub Station: 330'
- Power Supply to Entrance Station (cumulative): 360' (22 AWG) 1,020' (18 AWG)

### DB-1MD



## Entrance Stations



**DA-1DS**  
1-Call Audio  
Entrance Station  
(included with both DA-1AS and DBS-1A box sets)  
• Direct select button  
• Backlit directory  
• Weather resistant



**DA-2DS**  
2-Call Audio  
Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant



**DA-4DS**  
4-Call Audio  
Entrance Station  
• Direct select buttons  
• Backlit directory  
• Weather resistant

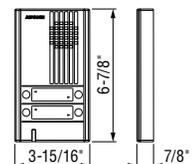
### Features

- Door release powered by door station without the need of an additional transformer or wiring

### Specifications

- Power Source Supplied by Tenant Station
- Communication Hands-free
- Door Release 9.5–20V AC, 70Ω or higher resistance—use EL-12S
- Temp. Rating 14°–140°F (-10°–60°C)
- Material Aluminum cover
- Mounting Surface mount directly to wall
- Wire Type Entrance Station to Tenant Station: 2-cond., overall shield—use Aiphone #822202 or 2-cond., low cap, PE insulation, solid, non-shielded—use Aiphone #871802
- Distance Power Supply to Entrance Station (cumulative): 360' (22 AWG) 1,020' (18 AWG)

### DA-1DS, DA-2DS, DA-4DS



# GT Series Components

## Entrance Stations & Access Card/Fob

### Ready-to-Install Single Panel



**GT-DMB-N**  
3-in-1 Video Entrance Station

- Tenant directory programming with NFC
- PTZ camera with 170° angle view
- Hands-free communication
- Access control and tenant directory scroll keypad

- Motion activated 3-1/2" LCD screen can display a customized greeting, operation instructions, or standby image
- Voice annunciation
- Stainless steel panel
- Weather and vandal resistant



### GT-DMBN-SSP

3-in-1 Video Entrance Station

- Same features as GT-DMB-N, plus:
- Designed to mount into Pedestal Pro Model #64TOW-AIP-001-304 (available at [www.pedestalpro.com](http://www.pedestalpro.com))

### Ready-to-Assemble Modular Kits



**GTV-DES104B**  
Modular Video Entrance Station Kit  
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GT-4B + GT-4F, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons



**GTV-DES202B**  
Modular Video Entrance Station Kit  
(includes GT-DB + GT-DBP, GT-VB + GT-VP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-2B + GF-2F x2, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons

**NOTE:** To build custom entrance stations, see modular components and mounting accessories p. 60–61



**GTA-DESB**  
Modular Audio Entrance Station Kit  
(includes GT-DB + GT-DBP, GT-NSB + GT-NSP-L, GT-10K + GF-10KP, GF-3B + GF-3F, and GT Operation Plate)

- Modular components
- Configuration can be customized
- Digital scroll buttons

**NFC-CARD**  
Access Card for GT-DB-VN and GT-DMB-N (image not available)

**NFC-FOB**  
Access Fob for GT-DB-VN and GT-DMB-N (image not available)

### Features

- Wide angle camera allows user to view up to 170° of the entry area (GT-DMB-N, GTV-DES104B, GTV-DES202B)
- Direct digit dialing, alphabetical scrolling, or "jump" scrolling by letter to select tenant name
- Digital panel stores up to 500 tenant names/number locations and 500 unique access codes to activate door release
- Voice annunciation in English, French, German, Spanish, Dutch, and Italian
- Alpha-numeric room numbers and/or names can be programmed
- Scrolling welcome message, up to 160 characters, adjustable scroll speed
- VFD (vacuum fluorescent display) displays calling unit name and number (GTA-DESB, GTV-DES104B, GTV-DES202B)
- Hands-free communication

### Features

- (additional for GT-DMB-N, GT-DMBN-SSP)
- PC configuration via USB or NFC
  - LCD screen with energy conservation mode activated by built-in motion sensor

For description and technical details of Pedestal Pro Model #64TOW-AIP-001-304, visit [www.pedestalpro.com](http://www.pedestalpro.com)

### Specifications

Power Source 24V DC—use specified number of PS-2420ULs per system configuration

Communication Hands-free (VOX)

Camera Type: 1/4" CMOS (not GTA-DESB)  
View Area: 100° vertical x 170° horizontal (not GTA-DESB)

Door Release Form C dry contact, 24V AC/DC, 4A

Temp. Rating 14°–140°F (-10°–60°C)

Material GT-DMB-N: stainless steel

GTA-DESB, GTV-DES104B, GTV-DES202B: zinc die cast

Mounting GT-DMB-N: flush mount with GF-3B (sold separately) or surface mount with SBX-GTDMB (sold separately)

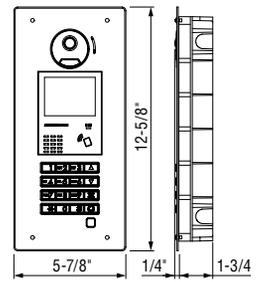
GT-DMBN-SSP: flush mount with Pedestal Pro Model #64TOW-AIP-001-304 (sold separately at [www.pedestalpro.com](http://www.pedestalpro.com))

GTA-DESB, GTV-DES104B, GTV-DES202B: semi-flush mount with GF-3B (included), semi-flush mount with GT-nH (sold separately), or surface mount with GT-nHB (sold separately)

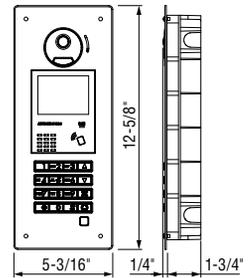
Wire Type 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

Distance Variable wiring distances—see table on p. 59

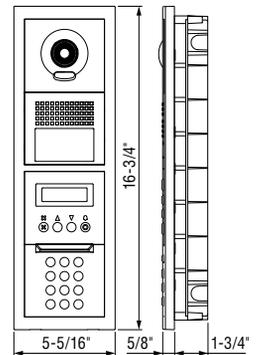
### GT-DMB-N



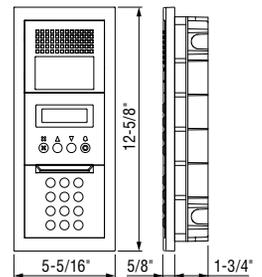
### GT-DMBN-SSP



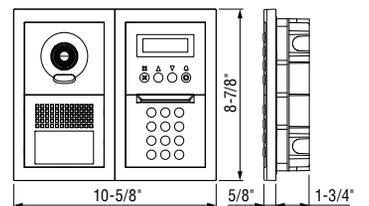
### GTV-DES104B



### GTA-DESB



### GTV-DES202B



## Video Guard Station



### GT-MKB-N

#### Video Guard Station

- 3-1/2" LCD screen
- Tenant directory programming with NFC
- Hands-free communication with handset for privacy
- Includes desk stand
- Compatible with JO-DV for single-door video entry



### JO-DV

#### Video Door Station

(one per GT-MKB-N for single-door video entry)

→ p. 75

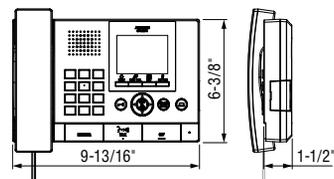
### Features

- For audio or video systems
- Video identification and monitoring
- Calls entrance or tenant stations
- Reception Mode intercepts visitor calls for screening by guard or concierge
- Door release
- PC configuration via USB or NFC

### Specifications

Power Source	24V DC—use PS-2420UL
Communication	Handset
Video Display	3-1/2" LCD screen
Temp. Rating	32°–104°F (0°–40°C)
Mounting	Wall or desk mount (stand included)
Wire Type	2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

### GT-MKB-N



## Audio Tenant Door Station



### GT-D

#### Audio Tenant Door Station

(one per GT-2C for single-door audio entry)

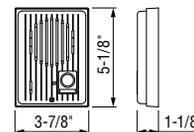
### Features

- Compatible with GT-2C video tenant master station
- Provides additional access control at individual tenant doorways
- Calls tenant's personal master and sub master stations simultaneously
- Hands-free communication

### Specifications

Power Source	Supplied by GT-2C
Communication	Hands-free (VOX)
Temp. Rating	14°–140°F (-10°–60°C)
Material	Plastic
Mounting	Surface mount
Wire Type	2-cond., low cap, PE, solid, non-shielded—use Aiphone #871802
Distance	Variable wiring distances – see table on p. 59

### GT-D



## Video Tenant Master & Sub Master Stations



### GT-2C

#### Video Tenant Master Station

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication
- Picture Memory
- Compatible with the GT-D audio tenant door station



### GT-2H

#### Video Tenant Sub Master Station

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication

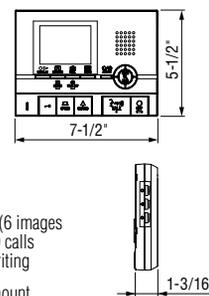
### Features

- Video identification and monitoring with 3-1/2" screen
- Hands-free or push-to-talk communication
- Internal Picture Memory (GT-2C)
- Door release, video guard station call, and optional service buttons
- PTZ, brightness, call tone, and communication volume control
- Simple station programming via dip switch setting
- Security inputs for alerting tenant and guard
- Input for GT-D audio tenant door station
- Internal communication with up to three GT-2H sub master stations
- Missed call from guard notification
- Menu can be displayed in six languages

### Specifications

Power Source	GT-2C: 24V DC—use PS-2420UL GT-2H: supplied by GT-2C
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	3-1/2" LCD screen
Picture Memory	Record max. 40 calls (6 images per call) with up to 10 calls protected from overwriting
Mounting	Wall mount or desk mount with MCW-S/B
Wire Type	2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power
Distance	Variable wiring distances – see table on p. 59

### GT-2C, GT-2H



## Optional Add-On Handset



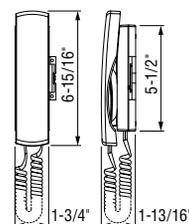
### GT-HSA

#### Optional Add-On Handset for GT-2C or GT-2H

### Features

- Handset for privacy
- Easy to attach and remove
- Compatible with GT-2C or GT-2H

### GT-HSA



# GT Series Components (continued)

## Video & Audio Tenant Stations



**GT-1C7W**  
App-Compatible Video Tenant Station  
(requires PS-2420UL or GT-4ZP)

- Connect up to 8 free mobile apps
- 7" LCD touchscreen
- Hands-free or push-to-talk communication



**GT-1C7**  
Video Tenant Station

- 7" LCD screen
- Hands-free or push-to-talk communication



**GT-1M3**  
Video Tenant Station

- 3-1/2" LCD screen
- Hands-free or push-to-talk communication



**GT-1A**  
Audio Tenant Station

- Hands-free or push-to-talk communication



**GT-1D**  
Audio Tenant Station

- Handset for privacy

**Features** (GT-1C7W, GT-1C7, GT-1M3, GT-1A)

- Hands-free or push-to-talk communication
- Door release, video guard station call, and optional service buttons
- Call tone and communication volume control

**Features** (additional for GT-1M3, GT-1C7, GT-1C7W)

- Simple station programming via dip switch setting

**Features** (additional for GT-1M3)

- Video identification and monitoring with 3-1/2" screen

**Features** (additional for GT-1C7, GT-1C7W)

- Video identification and monitoring with 7" screen
- PTZ and brightness control

**Features** (GT-1D)

- Handset communication for privacy
- Door release and video guard station call buttons
- Call tone volume control

### Specifications

**Power Source** GT-1C7, GT-1M3, GT-1A, GT-1D: 24V DC—supplied by GT-BC or GT-VBC

GT-1C7W: 24V DC—supplied by GT-4ZP or power supply

**Communication** GT-1C7W, GT-1C7, GT-1M3, GT-1A: hands-free (VOX) or push-to-talk (simplex)

GT-1D: handset

**Video Display** GT-1C7, GT-1C7W: 7" LCD screen

GT-1M3: 3-1/2" LCD screen

GT-1A, GT-1D: N/A

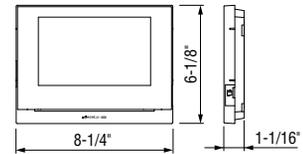
**Mounting** GT-1C7, GT-1M3, GT-1A: wall mount or desk mount with MCW-S/B

GT-1D: wall mount

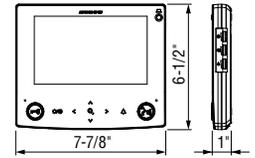
**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video (GT-1A or GT-1D do not need video wire)

**Distance** Variable wiring distances—see table below

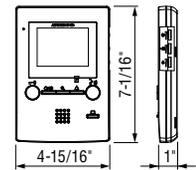
### GT-1C7W



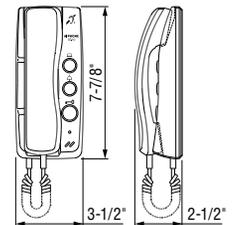
### GT-1C7



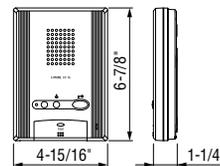
### GT-1M3



### GT-1D



### GT-1A



## Adaptors & Control Units



**GTW-VOA**  
Video Output Adaptor



**GT-MCX**  
Network Adaptor  
(includes mounting rail)



**GT-1Z**  
1-Way Video Distribution Adaptor



**GT-BC**  
Audio Bus Control Unit



**GT-VBC**  
Video Bus Control Unit



**GT-BCXB-N**  
Expanded Bus Control Unit  
(includes mounting rail)



**GT-VBX**  
Expanded Video Bus Control Unit  
(includes mounting rail)



**GT-4Z**  
4-Way Video Distribution Adaptor



**GT-4ZP**  
4-Way Video/Power Distribution Adaptor for GT-1C7W



**GTW-LC**  
Multi-Relay Control Unit  
(for use with GT Series Expanded System only and requires GT-BCXB-N—includes mounting rail)



**GTW-DP**  
Distribution Point Adaptor  
(includes mounting rail)

### Specifications

**Power Source** GT-4ZP, GT-BC, GT-VBC, GT-BCXB-N, GT-MCX: 24V DC—use PS-2420UL

GT-VBX: supplied by GT-BCXB-N

GTW-LC: supplied by GT-BC

GT-1Z, GT-4Z: power not required

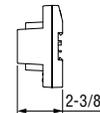
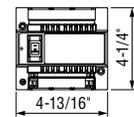
GTW-VOA: supplied by GT-VBC

**Mounting** DIN rail (equipped with large units)—use W-DIN11 for small units

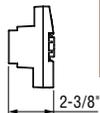
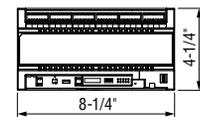
**Wire Type** 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and power

**Distance** Variable wiring distances—see table below

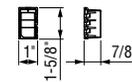
### GT-4Z, GT-4ZP, GT-BC, GT-VBC, GTW-VOA



### GT-BCXB-N, GT-MCX, GT-VBX, GTW-LC



### GT-1Z



GT Wiring Distances	22 AWG	20 AWG	18 AWG
GT-BC to Distribution Point	10'	16'	16'
GTW-DP to Entrance Station	490'	980'	980'
GTW-DP to GT-MKB-N	490'	980'	980'
GTW-DP to farthest Tenant Station	490'	980'	980'
GT-VBC to farthest Tenant Station	330'	490'	490'
GT-VBC (standard) to GT-VBC (expanded)	330'	490'	490'
GT-BC or GT-VBC to Power Supply	10'	16'	16'
GT-NSB or GT-AC to Power Supply	980'	980'	980'
GT-MKB-N to Power Supply	490'	980'	980'
Total cumulative wiring per common line (max. two) and per sub trunk line (max. four)	5,400'	8,200'	8,200'

# GT Series Components (continued)

## External Signaling Relay



**GT-RY**  
External  
Signaling Relay

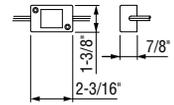
### Features

- N/O contact output
- Provides relay for entrance light control or an additional buzzer at residence

### Specifications

Power Source 24V DC – supplied by station  
Contact Rating 24V AC/DC, 500mA

### GT-RY



## Urgent Call Pull Cord



**GFK-PS**  
Urgent Call  
Pull Cord

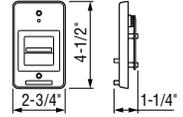
### Features

- Latching call switch
- Suitable for bathrooms and high-moisture areas
- Durable 7' nylon pull cord with pendant
- Easily resets by pushing back up
- Flush mount with standard 1-gang box

### Specifications

Contact Rating N/C 24V DC, 500mA

### GFK-PS



## Modular Components for Custom Entrance Stations

### Audio Module & Panel (required for custom entrance stations)

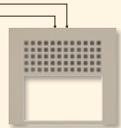


**GT-DB**  
Audio  
Module



**GT-DB-VN**  
Audio Module with  
NFC Programming

- Quickly update tenant directory with NFC-equipped device



**GT-DBP**  
Panel for GT-DB  
or GT-DB-VN

### Video Module & Panel



**GT-VB**  
Video Module  
with PTZ Camera

- 170° horizontal wide angle view



**GT-VP**  
Camera Panel  
for GT-VB

### Specifications

Power Source GT-10K, GT-AD, GT-DB, GT-DB-VN, GT-SW, GT-VB: supplied by system  
GT-AC, GT-NSB: PS-2420UL

Door Release GT-DB, GT-DB-VN: Form C dry contact, 24V AC/DC, 4A

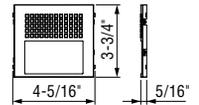
Temp. Rating 14°–140°F (–10°–60°C)

Material Panels: zinc die cast  
Modules: fire resistant ABS plastic

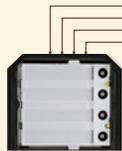
Wire Type 2-cond., solid, non-shielded, PE insulation—use Aiphone #872002 for audio and #871802 for video and for power to GT-AC

Distance Variable wiring distances – see table on p. 59

### All GT & GF Panels



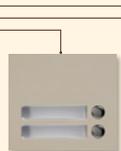
### Direct Select Module & Panels



**GT-SW**  
Call Switch  
Module



**GF-1P**  
1-Call Panel  
for GT-SW



**GF-2P**  
2-Call Panel  
for GT-SW



**GF-3P**  
3-Call Panel  
for GT-SW



**GF-4P**  
4-Call Panel  
for GT-SW

### Digital Scroll Modules & Panels



**GT-NSB**  
Display  
Module



**GT-NSP-L**  
Panel for  
GT-NSB



**GT-10K**  
Keypad  
Module



**GF-10KP**  
Panel for  
GT-10K

### Other Optional Modules, Panels, & Operation Plate



**GT-AD**  
Address  
Module



**GF-AP**  
Address Panel  
for GT-AD



**GF-BP**  
Blank Panel  
(can be used as  
a placeholder)



**GT-AC**  
Access Control  
Keypad Module



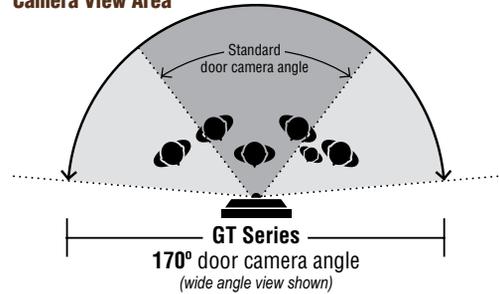
**GT-HID\***  
ProxPoint Plus®  
Embedded  
HID® Card  
Reader Module



**GT Operation Plate**  
Instruction Plate for GT Digital  
Display Entrance Stations  
(top or bottom mount – included with GTA-DESB,  
GTV-DES202B, and GTV-DES104B)

\*HID® stations require a third-party host. Power for card reader and door strike require additional wire.

### Camera View Area



# GT Series Components (continued)

## Mounting Accessories



**SBX-GTDMB**  
Surface Mount Box  
for GT-DMB-N



**GF-2B**  
2-Module  
Back Box



**GF-3B**  
3-Module  
Back Box



**GT-4B**  
4-Module  
Back Box



**GT-202H**  
4-Module Rain Hood  
(for 2x2 layout)



**GT-203H**  
6-Module  
Rain Hood



**GT-102H**  
2-Module  
Rain Hood



**GT-103H**  
3-Module  
Rain Hood



**GT-104H**  
4-Module  
Rain Hood  
(for 1x4 layout)



**GT-102HB**  
2-Module  
Hooded Surface  
Mount Box



**GT-103HB**  
3-Module  
Hooded  
Surface  
Mount Box



**GT-104HB**  
4-Module Hooded  
Surface Mount Box  
(for 1x4 layout)



**GT-202HB**  
4-Module Hooded Surface Mount Box  
(for 2x2 layout)



**GT-303HB**  
9-Module Hooded Surface Mount Box

**GT-203HB**  
6-Module Hooded Surface Mount Box



**GF-2F**  
2-Module  
Front Frame



**GF-3F**  
3-Module  
Front Frame



**GT-4F**  
4-Module  
Front Frame



**W-DIN11**  
DIN Mounting Rail  
for Control Units

### Features

- Hood provides additional weather protection
- Includes space inside for wiring
- Can mount directly to wall surface
- Openings at bottom allow for moisture drainage

### Specifications

Material 16GA stainless steel

Mounting Surface mount directly to wall with included hardware (8 x 32 with T-15 Torx head)



There are many different entrance station and mounting configurations possible with the GT Series.

For additional help, contact Aiphone's Technical Support.

**800.692.0200**

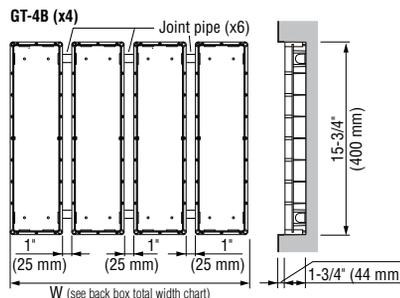
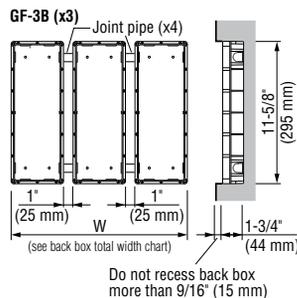
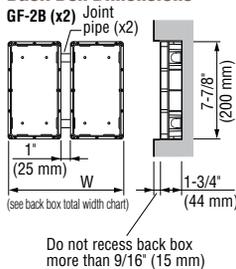
### Rain Hood & Hooded Surface Mount Box Dimensions

Component	Height (in / mm)	Width (in / mm)
SBX-GTDMB	12-11/16" / 323	6-1/16" / 154
GT-102H / HB	9-9/16" / 243	6-1/8" / 155
GT-202H / HB	9-9/16" / 243	11-7/16" / 290
GT-103H / HB	13-5/16" / 338	6-1/8" / 155
GT-203H / HB	13-5/16" / 338	11-7/16" / 290
GT-104H / HB	17-7/16" / 443	6-1/8" / 155
GT-303HB	13-5/16" / 338	16-3/4" / 425
GF-2F	8-7/8" / 225	5-5/16" / 135
GF-3F	12-5/8" / 320	5-5/16" / 135
GT-4F	16-3/4" / 425	5-5/16" / 135

Component	Depth (in / mm)
SBX-GTDMB	2-1/2" / 64
GT-nH	7/8" / 23
GT-nHB	2-11/16" / 68
GF/T-nF	5/8" / 16

### Back Box Dimensions



### Back Box Total Width

GF-2B / GF-3B / GT-4B	Width (in / mm)
1 back box	4-5/16" / 110
2 back boxes	9-5/8" / 245
3 back boxes	15" / 380
4 back boxes	20-1/4" / 515
5 back boxes	25-9/16" / 650
6 back boxes	30-7/8" / 785
7 back boxes	36-1/4" / 920
8 back boxes	41-9/16" / 1,055
9 back boxes	46-7/8" / 1,190

Do not recess back box more than 9/16" (15 mm)

# GT Series Components (continued)

## Postal Lock Modules for Custom Entrance Stations



**GT-OP2**  
2-Module  
Postal Lock

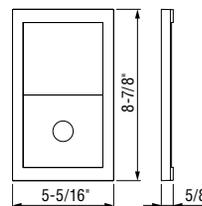


**GT-OP3**  
3-Module  
Postal Lock  
*(top position open for  
additional module)*

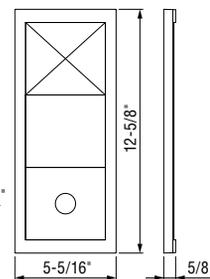
### Specifications

**Power Source** 24V DC—use PS-2420UL  
**Output Rating** N/O: 30V DC, 5A  
 125V AC, 10A  
 250V AC, 3A  
 N/C: 30V DC or 125V AC, 3A  
**Mounting** GT-OP2: surface mount\*  
 or flush mount with GF-2B  
 GT-OP3: surface mount\*  
 or flush mount with GF-3B  
 \*Surface mount box selection  
 depends on entry panel layout  
**Wire Type** 2-cond., non-shielded—  
 use Aiphone #872002

### GT-OP2



### GT-OP3



# IE-8 Series Components

## Audio Master & Sub Master Stations



**IE-8MD**  
6-Call Audio  
Master Station  
• Handset  
for privacy



**IE-8HD**  
6-Call Audio  
Sub Master Station  
• Handset  
for privacy

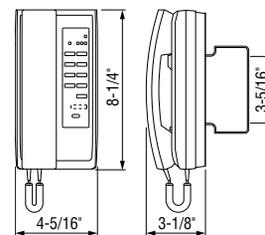
### Features

- Selective Call or All Call between handsets
- Simple 4-conductor wiring between handsets

### Specifications

**Power Source** 12–16V AC—use PT-1210NA or  
 12–18V DC—use PS-1225UL  
**Communication** Handset (full-duplex)  
**Door Release** N/O dry contact, 24V AC/DC, 350mA  
**Wire Type** Door Station to Master Station: 2-cond.,  
 overall shield—use Aiphone #822202  
 Master Station to Sub Stations: 4-cond.,  
 overall shield—use Aiphone #822206  
**Distance** Door Station to Master Station:  
 500' (22 AWG) 1,180' (18 AWG)  
 Master Station to farthest Sub Master  
 Station: 245' (22 AWG) 580' (18 AWG)

### IE-8MD, IE-8HD



## Audio Door Stations



**AX-DM**  
Audio Door Station  
• Plastic chassis  
• Weather resistant  
• Mullion surface mount  
→ p. 53



**IF-DA**  
Audio Door Station  
• Plastic chassis  
• Weather resistant  
• Surface mount



**IE-JA**  
Audio Door Station  
• Stainless steel cover  
• Weather resistant  
• Flush mount  
*(fits 2-gang box)*



**IE-SS/A**  
Audio Door Station  
• Stainless steel panel  
• Weather and vandal resistant  
• Flush mount *(fits 2-gang box)*



**IE-SSR**  
Audio Door Station  
• Red mushroom call button  
• Stainless steel panel  
• Weather and vandal resistant  
• Flush mount *(fits 2-gang box)*



Surface mount boxes available for  
 flush mount door stations! See p. 90

### Features (All)

- Can be used with AX Series, IE-8 Series, KB Series, or TD-H Series

### Features (AX-DM)

For AX-DM, see p. 53

### Features (IF-DA)

- Compact surface mount design
- Mounts to 1-gang box or ring
- Locator LED beside call button

### Features (IE-JA)

- Slim flush mount design with stainless steel cover
- Mounts to 2-gang box or ring
- Locator LED above call button

### Features (IE-SS/A, IE-SSR)

- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws
- Stainless steel, mechanical call button (IE-SS/A)
- Red mushroom call button (IE-SSR)

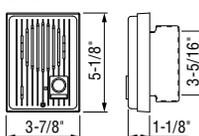
### Specifications (AX-DM)

For AX-DM specifications, see p. 53

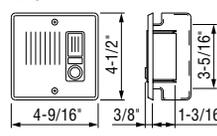
### Specifications

**Power Source** Supplied by Master Station  
**Communication** Hands-free  
**Temp. Rating** 14°–140°F (–10°–60°C)  
**Material** IF-DA: ABS plastic  
 IE-JA: ABS plastic with stainless steel cover  
 IE-SS/A, IE-SSR: stainless steel  
**Mounting** IF-DA: surface mount directly to wall  
 IE-JA, IE-SS/A, IE-SSR: flush mount  
 with 2-gang box/ring or surface  
 mount with SBX-2G/A  
**Wire Type** Door Station to Master Station: 2-cond., overall  
 shield—use Aiphone #822202 or #821802  
**Distance** Door Station to Master Station:  
 varies by system

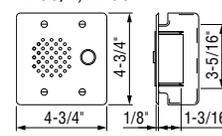
### IF-DA



### IE-JA



### IE-SS/A, IE-SSR



# IM Series Components

## Speaker Driver, Acoustic I/O Tube, & Tube Extension

### IAI-100

Speaker Driver and Acoustic I/O Tube Kit  
(includes DR-100 Speaker Driver and AI-100 Acoustic I/O Tube with noise cancelling microphone.)

**NOTE:** Image shown with IAX-100 acoustic tube extension (not included in IAI-100 kit).



### DR-100

Speaker Driver  
(not sold separately)

- Window or ceiling mount
- Indoor or outdoor use
- Access panel for future maintenance

### AI-100

Acoustic I/O Tube  
(not sold separately)

- Noise cancelling microphone
- Mounting rails included

### IAX-100

Acoustic Tube Extension  
(1 required per system)

### Features (DR-100)

- Driver access panel
- Speaker driver can be mounted directly to, or inside, ceiling above ticket window

### Features (AI-100)

- Optimum acoustic tube location is 12"–16" from the center of the ticket pass-through
- For smaller windows, acoustic tube may be mounted at the junction of the window and frame

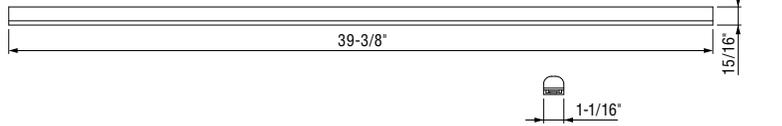
### Specifications (IAI-100)

Power Source	Supplied by Control Unit
Temp. Rating	14°–140°F (-10°–60°C)
Acoustic Output	Impedance: 4Ω Rated Input: 4.5W Max. Input: 6W
Microphone	Type: condenser microphone Directivity: non-directional Input Sensitivity: -41dB
Wire Type	Speaker Driver to Control Unit: 2 x 2-cond., overall shield—use Aiphone #822202 or #821802
Distance	Speaker Driver to Control Unit: 66' (22 AWG/18 AWG)

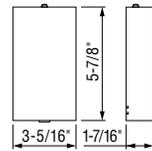
### Specifications (IAX-100)

Material Aluminum

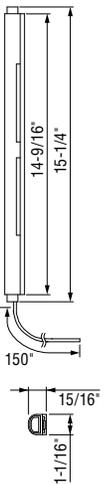
### IAX-100



### DR-100



### AI-100



## Control Unit, Operation Unit, & Gooseneck Mic

### IMU-100

Control and Operation Unit Kit  
(includes MU-100 Control Unit and OU-100 Operation Unit with supplied connector. IME-100 Gooseneck Microphone sold separately.)



### MU-100

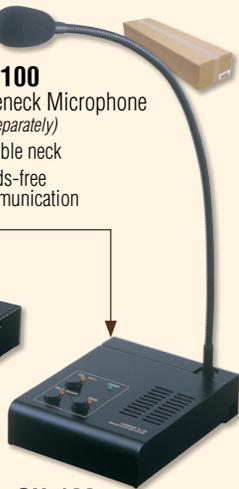
Control Unit  
(not sold separately)

- Operation, sensitivity, volume, and power controls
- Rubber feet prevent slipping
- Desk mount or mount under the counter with supplied bracket

### IME-100

Gooseneck Microphone  
(sold separately)

- Flexible neck
- Hands-free communication



### OU-100

Operation Unit  
(not sold separately)

- Supplied connector
- Rubber feet prevent slipping
- Desk mount

### Features (MU-100)

- VOX sensitivity adjustment
- VOX operation LED
- Transmit, speaker, receive, and standby volume control
- Ambient noise cancelling control
- Can be desk mounted or mounted under the counter with the supplied bracket

### Features (OU-100)

- Volume control switch (hi/lo)
- Socket for optional gooseneck microphone
- Designed for desk mounting
- Can mount up to 6' away from the MU-100 via the supplied connector

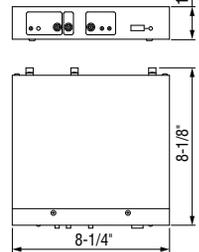
### Specifications (IMU-100)

Power Source	24V DC, 120mA standby, 780mA max.—use PS-2420UL
Temp. Rating	14°–140°F (-10°–60°C)
Communication	Hands-free (VOX) or push-to-talk (simplex) Transmit output: 3W 4Ω Receive output: 1.5W 16Ω
Headset	Φ 3.5mm plug
External Speaker	Rated input: 3W or more—use SP-2570N Max. input: 6W or more Impedance: 4 to 8Ω
Wire Type	Speaker Driver to Control Unit: 2 x 2-cond., overall shield—use Aiphone #822202 or #821802
Distance	Speaker Driver to Control Unit: 66' (22 AWG/18 AWG)

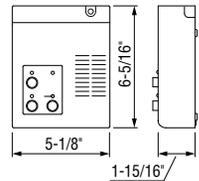
### Specifications (IME-100)

Microphone	Condenser microphone, unidirectional
Input Sensitivity	-46dB

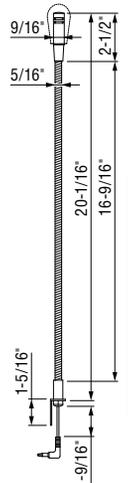
### MU-100



### OU-100



### IME-100



**NOTE:** Compatible ceiling speaker is located in the Paging Accessories section (p. 93)

## Proximity Sensor



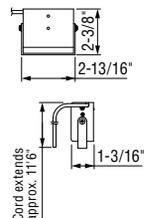
### ISE-100

Proximity Sensor

### Specifications

Power Source	24V DC—supplied by MU-100
Material	Aluminum
Wire	Aiphone #821802

### ISE-150



# IX Series Components

## Video Master Stations & PC Software



**IX-MV7-HB-L**  
IP Video Master Station with T-Coil Supported Handset

**IX-MV7-HW-JP**  
IP Video Master Station (TAA-compliant)



**IX-MV7-HB**®  
IP Video Master Station (included with IXS-HBDV box set – available soon)



**IX-MV7-B**®  
IP Video Master Station



**IX-MV7-W**®  
IP Video Master Station



**IX-SOFT**  
PC Master Station Software

**IX-SOFT-3**  
PC Master Station Software (bundle includes 3 USB dongles)

**IX-SOFT-5**  
PC Master Station Software (bundle includes 5 USB dongles)

**IX-SOFT-10**  
PC Master Station Software (bundle includes 10 USB dongles)

### Features

- PoE
- SIP compliant
- Video identification and monitoring with 7" LCD touchscreen
- 8 speed dial buttons
- Camera for two-way video calls, includes privacy shutter
- On-board recording with a microSD™ card (sold separately)
- Hands-free communication (IX-MV7-HB, IX-MV7-HB-L, and IX-MV7-HW-JP have a handset for privacy)
- Door release
- Brightness control
- Wall or desk mount (stand included)
- Connects using Cat-5e or Cat-6 wire
- Toggle between a close-up view and a CCTV camera view with picture-in-picture

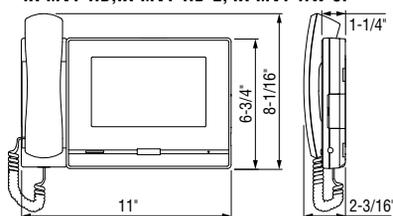
### Features

- (additional for IX-SOFT)
- Interactive map is a visual, efficient way of selecting stations
  - Feature-rich PC intercom helps to reclaim valuable desk space
  - Device check and Line Supervision ensure the system will operate as expected
  - Video conversations can easily be recorded
  - Computer screen offers a larger viewing platform
  - Up to 50 speed-dials can be programmed

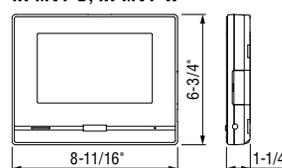
### Specifications

Power Source	PoE (802.3af)
Network Interface	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
Network Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS
Bandwidth Usage	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring Video (H.264): 32Kbps-2,048Kbps
Video Stream	ONVIF® Profile S
Communication	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP: hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex) IX-MV7-B, IX-MV7-W: hands-free (full-duplex) or push-to-talk (simplex)
Video Display	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP, IX-MV7-B, IX-MV7-W: 7" LCD touchscreen
Door Release	IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP, IX-MV7-B, IX-MV7-W: N/O dry contact, 24V AC/DC, 1A
Mounting	Wall or desk mount (stand included)
Wire Type	Cat-5e or Cat-6
Distance	Master Station to Network Node: 330'

**IX-MV7-HB, IX-MV7-HB-L, IX-MV7-HW-JP**



**IX-MV7-B, IX-MV7-W**



*IX-SOFT USB Dongle Actual Size*



## Sub Stations



**IX-RS-B**®  
Audio Room Sub Station



**IX-RS-W**®  
Audio Room Sub Station

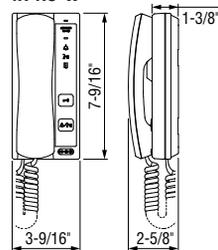
### Features

- PoE
- SIP compliant
- Hands-free communication or handset for privacy
- Internal communication with other sub stations
- 8Ω, 2W external speaker output for communication or paging (use 8Ω tap on SP-2570N)
- Illuminated call button indicator
- Communication/call tone volume control switch
- One contact output
- One trigger input

### Specifications

Power Source	PoE (802.3af)
Audio Codec	G.722 (μ-law, A law), G.722
Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, FTP, DHCP, NTP, DNS
Operating Temp	32° - 104°F (0° - 40°C)
Mounting	Wall mount
Wire Type	Cat-5e or Cat-6
Distance	Master Station to Network Node: 330'

**IX-RS-B, IX-RS-W**



## Adaptors



**IXW-MA**  
IP Relay Adaptor for IX Series



**IPW-1VC**  
2-Wire Network Adaptor  
*(includes power supply)*



**IXW-PBX**  
IP PBX for IX Series



**IPW-VPN**  
VPN Router

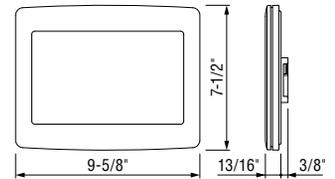
### Features (IXW-MA)

- Compatibility with IX Support Tool makes programming efficient – no need to program adaptors separately
- PoE
- 10 outputs

### Specifications (IXW-MA)

Power Source	PoE (802.3af)
Consumption	43mA standby, 135mA max.
Relay Output	Relays 1-4: Form C, 24V AC/DC, 500mA Relays 5-10: Form A, 24V AC/DC, 500mA
Network Interface	Ethernet (10BASE-T, 100BASE-TX)
Network Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, SMTP, SFTP, DHCP, NTP, DNS
Encryption System	TLS1.0, TLS1.1, TLS1.2
Port Security	IEEE 802.1X
Temp. Rating	14°~ 122°F (-10°~ 50°C)

### IXW-MA



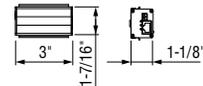
### Features (IPW-1VC)

- Upgrade 2-wire analog systems to an IP video intercom
- Use existing wire – up to 1,000' (18-22AWG shielded, unshielded)
- PoE
- Compact design is small enough to fit behind most door or sub stations

### Specifications (IPW-1VC)

Power Source	48V DC, 1A
Consumption	< 2 Watts
Temp. Rating	-4°~140°F (-20°~60°C)
Mounting	Supplied mounting bracket
Wire Type	Network Adaptor to Network Node: Cat-5e or Cat-6 Between Network Adaptors: existing 2 cond., shielded or non-shielded
Distance	Network Adaptor to Network Node: 15' Between Network Adaptors: 1,000' (22 AWG, 18 AWG)

### IPW-1VC



### Features (IXW-PBX)

- Supports up to 500 registered SIP devices and up to 50 concurrent calls
- Dual Gigabit network ports with integrated PoE+
- Built-in call recording server; recordings accessed via web interface
- Supports H.264, H.263, and H.263+ video codecs

### Specifications (IXW-PBX)

Power Source	12V DC, 1.5A (supplied)
Network Interface	Dual Gigabit with integrated PoE+ (IEEE 802.3at)
Network Protocols	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP, STUN, SRTP, TLS, LDAP
Ports	2 FXO, 2 FXS
Encryption	TLS
Temp. Rating	32°~ 104°F (0°~ 40°C)
Dimensions	6-1/8" H x 8-7/8" W x 1-3/8" D

### Features (IPW-VPN)

- Secure communication via encrypted tunnel
- Supports 30Mbps
- Supports broadcast and multicast
- Supports mesh applications
- Simple installation

### Specifications (IPW-VPN)

Power Source	12V DC (supplied)
Talkpaths	2
Temp. Rating	-40°~ 158°F (-40°~ 70°C)
Mounting	Supplied mounting tabs
Dimensions	7-1/2" H x 6-1/2" W x 1-1/8" D

## Video Door Stations



- IX-EA**  
IP Video Door Station
- Fixed camera
  - Plastic chassis
  - Surface mount



- IX-DVM**  
Mullion-Mount IP Video Door Station
- Fixed WDR camera
  - Built-in touchless call sensor
  - Aluminum die cast cover
  - Vandal resistant
  - Mullion surface mount



- IX-DV**®  
IP Video Door Station  
*(included with IXS-HBDV box set—available soon)*

- Fixed camera
- Aluminum die cast cover
- Vandal resistant
- Surface mount



- IX-DVF**®  
IP Video Door Station
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount  
*(back box included)*



- IX-DVF-4**  
IP Video Door Station
- Fixed camera
  - Four call buttons
  - Stainless steel panel
  - Flush mount  
*(back box included)*



- IX-DVF-L**  
IP Video Door Station with T-Coil Compatibility
- Fixed camera
  - Stainless steel panel
  - Vandal resistant
  - Flush mount  
*(back box included)*



- IX-DVF-HW**  
IP Video Door Station with Hand Wave Call Sensor and Surface Mount Box
- Fixed camera
  - Stainless steel panel
  - Vandal resistant



- IX-DVF-P\***  
Card Access IP Video Door Station
- HID® multiCLASS SE® Proximity Card Reader
  - Fixed camera
  - Stainless steel panel
  - Weather and vandal resistant
  - Flush mount  
*(back box included)*



Surface mount boxes available for flush mount stations! See p. 90

\* HID® station requires a third-party host. Power for card reader and door strike require additional wire.

### Features

- PoE
- SIP compliant
- On-board recording with a microSD™ card
- Fixed camera provides clear video
- Weather and vandal resistant (IX-EA and IX-DVF-4 are weather resistant only)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- 802.3af PoE compliant

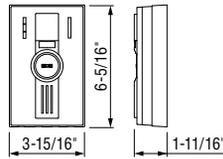
**Features** (additional for IX-DV, IX-DVF, IX-DVF-4, IX-DVF-HW, IX-DVF-L, IX-DVF-P, )

- PoE passthrough can power additional device (requires PoE+)

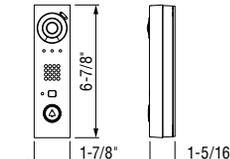
### Specifications

Power Source	IX-EA: PoE (802.3af) IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P: PoE (802.3af), PoE+ (802.3at), or 24V DC—use PS-2420UL
Communication	Hands-free
Camera	IX-EA, IX-DV, IX-DVM, IX-DVF, IX-DVF-4, IX-DVF-P: 1/3" color CMOS 1.2 megapixel Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	IX-EA: 14°–140°F (-10°–60°C) IX-DV, IX-DVF, IX-DVF-4: -40°–140°F (-40°–60°C) IX-DVF-P: -22°–140°F (-30°–60°C)
Material	IX-EA: self-extinguishing ABS resin IX-DV, IX-DVM: aluminum die cast cover IX-DVF, IX-DVF-4, IX-DVF-HW, IX-DVF-L IX-DVF-P: stainless steel
Door Release	IX-DVM, IX-EA: Form C dry contact, 24V AC/DC, 1A IX-DV, IX-DVF, IX-DVF-4, IX-DVF-P: two Form C dry contacts, 24V AC/DC, 1A
Mounting	IX-DVM, IX-EA: surface mount IX-DVF: flush mount with included back box or surface mount with SBX-IDVF IX-DVF-4, IX-DVF-P: flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Door Station to Network Node: 330' Door Station to Power Supply: 50'

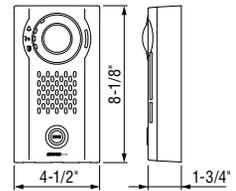
IX-EA



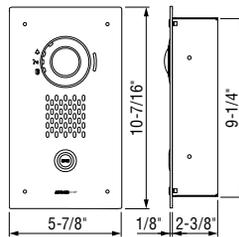
IX-DVM



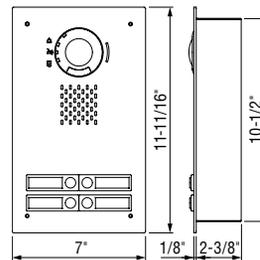
IX-DV



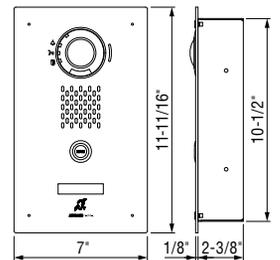
IX-DVF



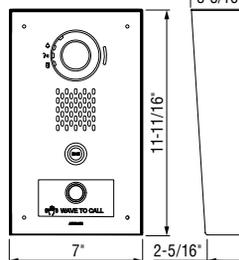
IX-DVF-4



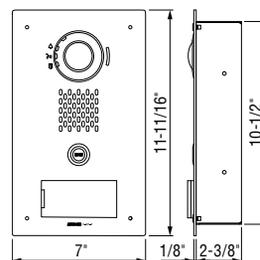
IX-DVF-L



IX-DVF-HW



IX-DVF-P



## Audio Door Stations



**IX-SS-2G**  
IP Audio Door Station

- Stainless steel panel
- Flush mount (fits 2-gang box)



**IX-SSA**  
IP Audio Door Station

- Stainless steel panel
- Flush mount (back box included)



**IX-NVP**  
IP Audio Door Station

- PoE
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)



**IX-NVP2**  
IP Audio Door Station

- Two call buttons
- PoE
- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)



Surface mount boxes available for flush mount stations! See p. 90

### Features

- PoE
- SIP compliant
- Weather and vandal resistant
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire

### Features

- (additional for IX-SSA)
- PoE passthrough can power additional device (requires PoE+)
  - On-board recording with a microSD™ card

### Specifications

Power Source IX-SS-2G, IX-NVP, IX-NVP2: PoE (802.3af)  
IX-SSA: PoE (802.3af), PoE+ (802.3at) or 24V DC—use PS-2420UL

Communication Hands-free

Temp. Rating -40°–140°F (-40°–60°C)

Material IX-SS-2G, IX-SSA: stainless steel  
IX-NVP, IX-NVP2: powder-coated steel

Door Release IX-SSA: two Form C dry contacts, 24V AC/DC, 1A  
IX-SS-2G, IX-NVP, IX-NVP2: Form C dry contact, 24V AC/DC, 1A

Mounting IX-SS-2G: flush mount with 2-gang box or surface mount with SBX-2G/A

IX-SSA: flush mount with included back box or surface mount with SBX-1DVF

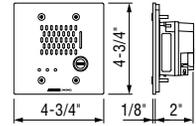
IX-NVP, IX-NVP2: flush mount with 3-gang back box or surface mount with SBX-NVP/A

Wire Type Cat-5e or Cat-6

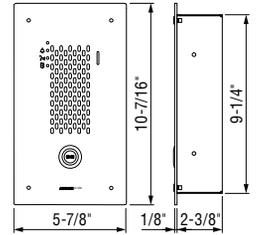
Distance Door Station to Network Node: 330'

Door Station to Power Supply: 50'

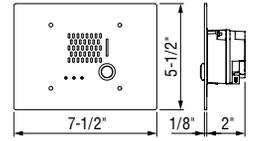
### IX-SS-2G



### IX-SSA



### IX-NVP, IX-NVP2



## Add-On Call Sensor



**IXW-HWCBP**  
Hand Wave Call Sensor and Surface Mount Box

### Features

- Weather resistant
- Includes the SBX-2G/A surface mount box and PS-POE splitter to power the sensor
- Powered from either a PoE network drop or from the LAN 2 output on an IX Series door station (requires PoE+ switch)
- Form C dry contact output can be connected to the trigger input of an IX Series door station
- Allows visitors to place a call without touching the call button on the door station
- Sensor is illuminated in blue while in standby and turns green when activated

### Specifications

Power Source PoE (IEEE 802.3af class 0)

Power Draw 30mA standby, 50mA active

Sensor Type Infrared with LED ring

Detection Range 0-10 cm

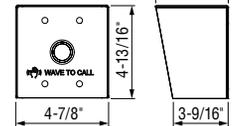
Temp. Rating -4°–131°F (-20°–55°C)

Material Stainless steel

Contact Rating 30V AC/DC, 3A

Mounting Surface mount with included SBX-2G/A

### IXW-HWCBP



## ADA Compliant Emergency Stations



**IX-DVF-2RA**®  
ADA Compliant IP  
Video Emergency Station  
with Two Call Buttons



**IX-DVF-RA**®  
ADA Compliant IP Video  
Emergency Station



**IX-SSA-2RA**®  
ADA Compliant IP Audio  
Emergency Station with  
Two Call Buttons



**IX-SSA-RA**®  
ADA Compliant IP Audio  
Emergency Station

Stations are also available  
with French labels:

- IX-DVF-2RA-FR**
- IX-DVF-RA-FR**
- IX-SSA-2RA-FR**
- IX-SSA-RA-FR**



Surface mount box  
available! See p. 90

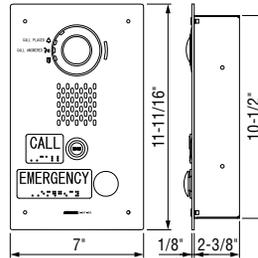
### Features

- PoE (with passthrough port) or 24V DC
- Passthrough can power additional device (requires PoE+)
- SIP compliant
- On-board recording with a microSD™ card
- Lettering and braille signage
- LED call status indicator
- Two Form C relay outputs
- Stainless steel panel
- Weather and vandal resistant
- Fixed camera provides clear video (IX-DVF-2RA, IX-DVF-RA)
- Indoor or outdoor use
- Connects using Cat-5e or Cat-6 wire
- Tamper resistant screws
- Flush mount (back box included)
- Can be mounted into emergency wall boxes or towers

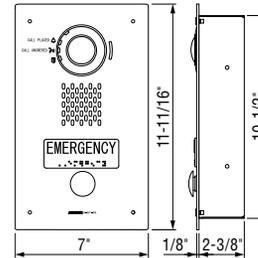
### Specifications

Power Source	PoE (802.3af) or 24V DC—use PS-2420UL
Communication	Hands-free
Camera	Type: 1/3" color CMOS 1.2 megapixel Area View: 2' 1" vertical x 3' 1" horizontal at 20"
Temp. Rating	-40°~140°F (-40°~60°C)
Material	Stainless steel
Door Release	Two Form C dry contacts, 24V AC/DC, 1A
Mounting	Flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Cat-5e or Cat-6
Distance	Emergency Station to Network Node: 330' Door Station to Power Supply: 50'

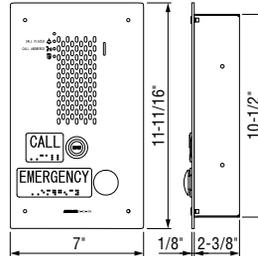
**IX-DVF-2RA, IX-DVF-2RA-FR**



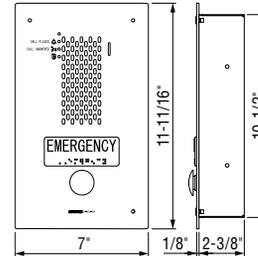
**IX-DVF-RA, IX-DVF-RA-FR**



**IX-SSA-2RA, IX-SSA-2RA-FR**



**IX-SSA-RA, IX-SSA-RA-FR**



## PoE Splitter



**PS-POE**  
PoE Splitter

### Features

- Powers strobe light, eliminating the need of a separate power supply
- Avoid added wire – only one cable is needed from the PoE+ switch when wired with an IX Series emergency station
- Mounts directly to the back of an IX Series emergency call station or 1-gang box
- Can withstand temperatures ranging from -40 to 140° F

### Specifications

Power Source	PoE (803.2af)
Consumption	8.4W
Output	24V DC, 350mA
Temp. Rating	-40°~140°F (-40°~60°C)
Dimensions	3-1/4" H x 2-1/2" W x 1" D

# IX Series Wall Boxes

## ADA Compliant Wall Boxes



**WB-CA\*** (cage)

**WB-HA\*** (hood)

ADA Compliant Wall Box

- Beacon/strobe light
- ASSISTANCE lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

**WB-CE\*** (cage)

**WB-HE\*** (hood)

ADA Compliant Wall Box

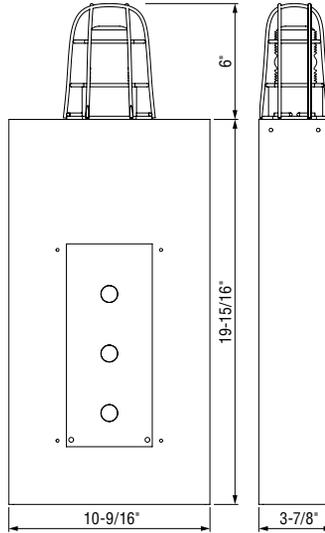
- Beacon/strobe light
- EMERGENCY lettering
- UL Listed electrical box
- Stainless steel enclosure with slim, 4" depth
- Wall mount

**NOTE:** Power required for the beacon/strobe light—use PS-POE splitter to draw power from PoE+ network switch.

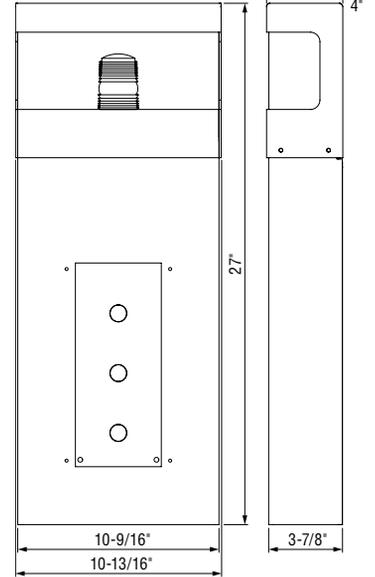
### Features

- Includes UL Listed electrical box
- Made of 12-gauge stainless steel
- Beacon/Strobe light on top is protected by a cage enclosure or full hood enclosure
- Compatible with IX Series emergency stations
- Lettering on sides available in either EMERGENCY or ASSISTANCE
- 4" depth, proper signage, and call button mounting height meet ADA requirements
- Interior bracket (right side) has 1-gang mounting pattern
- Built-in accessory mounting hardware with internal threads (female: M3 x .05, 1-gang spacing pattern)

**WB-CA, WB-CE**



**WB-HA, WB-HE**



# IX Series Solar Tower Sets

## Solar Tower Sets



### TWS-Z4

Zone 4 Solar Tower Set

- Includes WB-HE wall box with Sun Surveillance's solar panel and mounting components
- Wireless solar solution powers wall box beacon/strobe and emergency call station
- Equipped with one solar panel for zones rated 4.0+

### TWS-Z2 (not shown)

Zone 2 Solar Tower Set

- Same as TWS-Z4, but equipped with two solar panels for zones rated 2.0-3.9

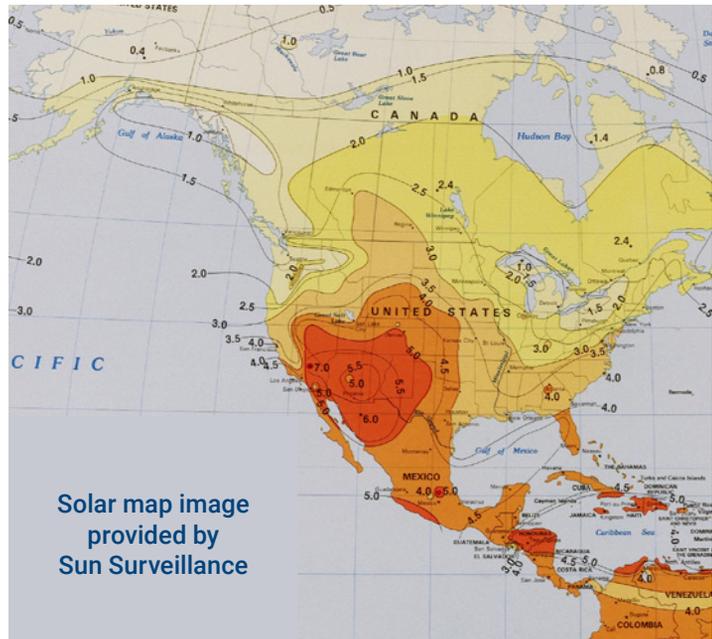
### TWS-Z1 (not shown)

Zone 1 Solar Tower Set

- Same as TWS-Z4, but equipped with three solar panels for zones rated 1.0-1.9
- Direct-burial mounting

### Features

- Wireless solar solution uses the sun to power all components
- Pre-assembled sets include WB-HE wall box with mounting pole, battery and electrical enclosure, WiFi device, and one, two, or three solar panels (see solar map as a guideline to determine the model best suitable for a region based on its sun rating zone)
  - TWS-Z1 with three panels is recommended for zones rated 1.0 to 1.9
  - TWS-Z2 with two panels is recommended for zones rated 2.0 to 3.9
  - TWS-Z4 with one panel is recommended for zones rated 4.0+
- TWS-Z4 and TWS-Z2 can be mounted above ground (TWS-Z1 requires underground mounting due to weight)



Solar map image provided by Sun Surveillance

# IX Series Modular Towers

## Modular Towers

**STEP 1 (required)**  
Choose modular tower size.



**TW-20B/A**  
2-Module  
Tower



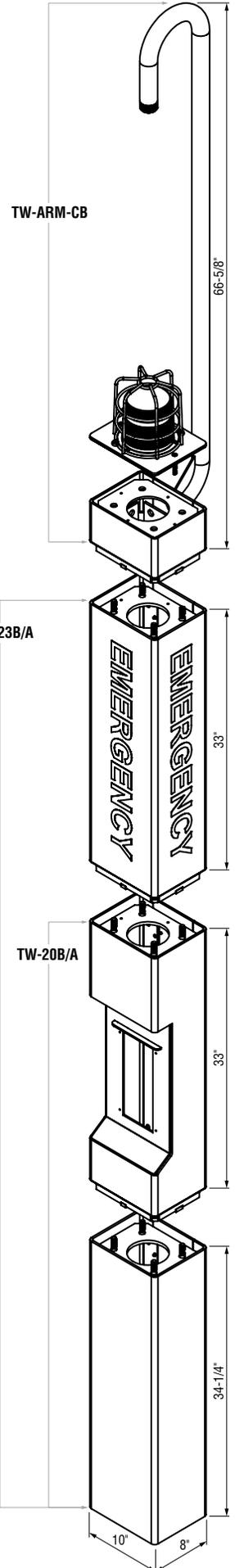
**TW-23B/A**  
3-Module  
Tower

## LISTED Electrical Box

- CCTV camera arm module with universal pipe threading (1.50" NPT threading x 1" long)
- Includes accessory mounting hardware with external threads (male: M3 x .05, 1-gang spacing pattern)
- Large access panel on each module

### Features

- 1/4" zinc-treated steel with powder coating
- Weather and vandal resistant
- Modular design provides lower freight costs and easier assembly than non-modular towers
- Two sizes available with choice of lettering, custom colors available upon request
- Compatible with any IX Series emergency station
- Beacon/Strobe light on top of tower and LED on front panel can share same power supply—use PS-POE with IX Series systems (requires PoE+)
- Beacon is always lit and flashes during emergency call-in
- Call button mounting height meets ADA regulations



## CCTV Camera Arm for Modular Towers

**STEP 2 (optional)**  
Add the optional CCTV camera arm. Skip this step if module is not required.



**TW-ARM-CB**  
CCTV Camera Arm  
Module for Tower

**NOTE:** The CCTV camera arm module is only compatible with new tower modules that have the 'A' in the model name.

## Cap Option for Modular Towers

**STEP 3 (required)**  
Add the required top plate.



**TW-LCB**  
Top Plate with Cage and  
Beacon/Strobe Light

Components

# IX Series Modular Towers (continued)

## Lettering Options for Modular Towers

### STEP 4 (required)

Choose ASSISTANCE or EMERGENCY lettering. Refer to chart for applicable lettering quantities.

**TW-ASW**  
White ASSISTANCE  
Lettering

**TW-EMW**  
White EMERGENCY  
Lettering

### Lettering Order Quantities

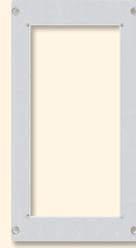
	<b>TW-20/B</b> <b>2-Module Tower</b>	<b>TW-23/B</b> <b>3-Module Tower</b>
All 4 Sides		Order qty of 4
3 Sides Left, Right, and Front		Order qty of 3
3 Sides Left, Right, and Back	Order qty of 3	Order qty of 3
2 Sides Left and Right	Order qty of 2	Order qty of 2
1 Side Left, Right, or Back	Order qty of 1	Order qty of 1
No Lettering	N/A	N/A

**NOTE:** All lettering is applied to the tower at the factory.

## Tower Mounting Plate

### STEP 6 (optional)

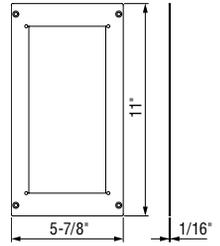
Add the tower mounting plate ONLY if installing a non-emergency station into the tower AND strobe function is not needed.



**TW-SPL**  
Tower Mounting Plate  
for IX-DVF or IX-SSA

- 14-gauge stainless steel
- Adapts standard door station to an Aiphone tower or wall box
- Mounts directly to tower or wall box

**TW-SPL**



## Power Supply

### STEP 7 (recommended)

Add power for the beacon/strobe and LED illuminator lights. Aiphone's PS-POE and PS-2420UL are recommended.



**PS-POE**  
PoE Splitter  
→ p. 68



**PS-2420UL**  
24V DC, 2A  
Power Supply  
→ p. 95

**NOTE:** Power required for the beacon/strobe light—use PS-POE splitter to draw power from PoE+ network switch.

## Mounting Kit for Modular Towers

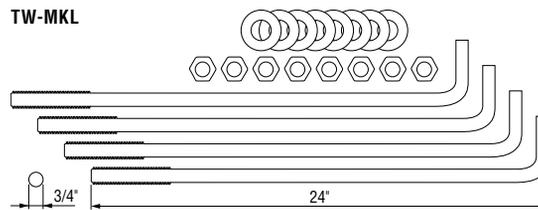
### STEP 5 (recommended)

Add a mounting kit for tower installation. Aiphone's TW-MKL is recommended.



**TW-MKL**  
L-Bolt Mounting Kit for Modular Towers

**TW-MKL**



Does your project require customized solutions? Contact Aiphone's Technical Support to learn about custom color and lettering options.

**800.692.0200**



## Entrance Station



### IXG-DM7-HID

IP Video Entrance Station

- Modern and simple user touchscreen interface
- PoE
- Programmable inputs and outputs
- On-board recording with a microSD™ card
- Rugged IP65 and IK08 ratings
- HD camera
- Stainless steel panel
- Flush mount (*back box sold separately*)



### SBX-IXGDM7

Surface Mount Back Box for IXG-DM7-HID



### IXG-DM7-BOX

Flush Mount Back Box for IXG-DM7-HID

### Features (IXG-DM7-HID)

- Built-in HID® reader connects to third-party access control
- LCD directory screen
- Welcome screen can be customized
- Up to 9,999 names/numbers can be stored
- Motion sensor activates the screen when a visitor approaches
- Up to ten entrance stations can be within the same interior or exterior unit, with multiple units allowed in the system
- Hands-free communication

### Features (SBX-IXGDM7)

- 1-gang and 2-gang mounting hole patterns
- One conduit knockout at bottom
- Stainless steel construction
- Built-in rain hood

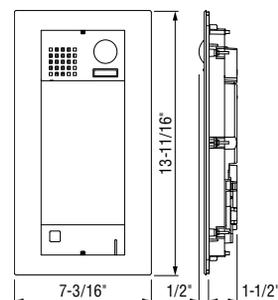
### Features (IXG-DM7-BOX)

- Steel construction
- Six conduit knockouts
- Sold separately for pre-installation convenience

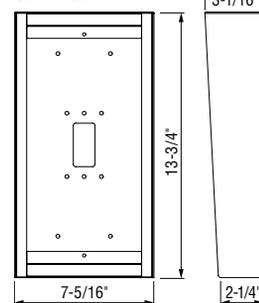
### Specifications (IXG-DM7-HID)

Power Source	PoE (IEEE 802.3af Class 0)
Consumption	5.3W standby, 11.6W max.
Video Display	7" TFT LCD touchscreen (800x400 resolution)
Communication	Hands-free (full-duplex)
Audio Codec	G.711 (μ-law, A-law)
Video Codec	H.264
Protocol	IPv4/v6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP/RTCP, IGMP, MLD, SMTP, FTP, DHCP, NTP, DNS, TLS
Temp. Rating	-22°~140°F (-30°~60°C)
Material	Stainless steel
Door Release	Two programmable Form C dry contacts, 24V AC/DC
	Relay 1: 3A
	Relay 2: 500mA
Mounting	Flush mount with IXG-DM7-BOX or surface mount with SBX-IXGDM7
Wire Type	Cat-5e or Cat-6
Distance	Entrance Station, Tenant Station, or Guard Station to Network Node: 330'

### IXG-DM7-HID



### SBX-IXGDM7



## Guard Station



### IXG-MK

IP Video Guard Station

- 7" touchscreen
- PoE
- Programmable inputs and outputs
- On-board recording with a microSD™ card
- Video communication with other guard stations
- Wall or desk mount (*stand included*)

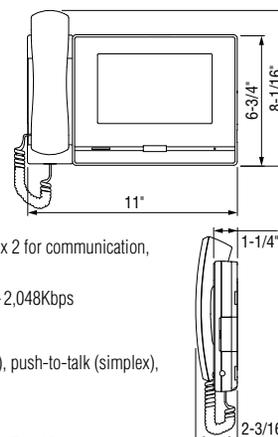
### Features

- Video identification and monitoring
- Hands-free communication with a handset for privacy
- Door release
- Brightness control
- Wall or desk mount (stand included)
- Connects using Cat-5e or Cat-6 wire
- Record events and save to a microSD™ card (sold separately)
- Camera for two-way video calls, includes privacy shutter
- Toggle between a close-up view and a CCTV camera view with picture-in-picture

### Specifications

Power Source	PoE (802.3af)
Network Interface	10 BASE-T/100 BASE-TX Ethernet (RJ-45)
Network Protocols	IPv4, IPv6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP, RTCP, IGMP, MLD, SMTP, DHCP, NTP, DNS
Bandwidth Usage	Audio (G.722): 64Kbps x 2 for communication, 64Kbps for monitoring
	Video (H.264): 32Kbps-2,048Kbps
Video Stream	ONVIF® Profile S
Communication	Hands-free (full-duplex), push-to-talk (simplex), or handset (full-duplex)
Video Display	7" LCD touchscreen
Door Release	N/O dry contact, 24V AC/DC, 1A
Mounting	Wall or desk mount (stand included)
Wire Type	Cat-5e or Cat-6
Distance	Master Station to Network Node: 330'

### IXG-MK



## Tenant Station



**NEW**

- IXG-2C7-L**  
IP Video Tenant Station with T-Coil Compatibility
- 7" touchscreen
  - PoE
  - Programmable inputs and outputs
  - On-board recording with a microSD™ card
  - Up to eight stations within an apartment or suite
  - Wall mount



- IXG-2C7**  
IP Video Tenant Station
- 7" touchscreen
  - PoE
  - Programmable inputs and outputs
  - On-board recording with a microSD™ card
  - Up to eight stations within an apartment or suite
  - Wall mount



**IXG-FMK-2C7**  
Flush Mount Kit for IXG-2C7

### Features

- Internal communication with up to eight stations within apartment/suite
- Hands-free communication
- Can call concierge/guard station directly
- Can call elevator to floor
- Video monitoring
- Answers calls from an entrance station, guard station, or individual door station
- Selectively call other IXG-2C7s or IXG-2C7-Ls in the same apartment/suite
- Call all associated mobile apps connected to the same apartment/suite

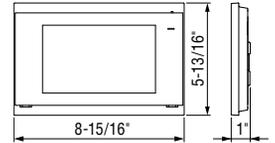
### Features (IXG-FMK-2C7)

- Provides ability to flush mount IXG-2C7 or IXG-2C7-L directly into the wall
- Includes mounting hardware

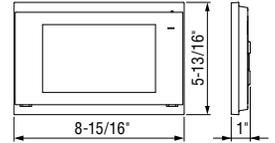
### Specifications (IXG-2C7, IXG-2C7-L)

Power Source	PoE
Consumption	1.9W standby, 5.9W max.
Video Display	7" TFT LCD touchscreen (800x400 resolution)
Communication	Hands-free (full-duplex)
Audio Codec	G.711 (μ-law, A-law)
Video Codec	H.264, MJPEG
Protocol	IPv4/v6, TCP, UDP, SIP, HTTP, HTTPS, RTSP, RTP/RTCP, IGMP, MLD, SMTP, FTP, DHCP, NTP, DNS, TLS
Encryption	TLS 1.0, 1.1, 1.2
Temp. Rating	32°~104°F (0°~40°C)
Material	Stainless steel
Door Release	Two Form C dry contacts, 24V AC/DC, 1A
Mounting	Flush mount with IXG-FMK-2C7 or surface mount to wall
Wire Type	Cat-5e or Cat-6
Distance	Tenant Station to Network Node: 330'

### IXG-2C7, IXG-2C7-L



### IXG-2C7, IXG-2C7-L



### Specifications (IXG-FMK-2C7)

Mounting	Flush mount
Materials	Panel: self-extinguishing resin Frame and Back Box: Self-extinguishing plastic

## Adaptors



- IXGW-GW**  
IXG Series Mobile App Gateway Adaptor  
(required for *iPhone IXG App* – service fee will apply)
- PoE
  - iOS® or Android®
  - Up to eight mobile apps per tenant



- IXGW-LC**  
Elevator Lift Control Adaptor
- PoE
  - Programmable outputs
  - Compatible with IXG-DM7-HID and IXG-2C7
  - Wall mount with DIN rail (sold separately)



- IXGW-LC-RY20**  
Elevator Lift Control and Relay Adaptor
- PoE
  - Programmable outputs
  - Compatible with IXG-DM7-HID and IXG-2C7
  - Wall mount with DIN rail (sold separately)

### Features (IXGW-GW)

- One adaptor per system
- DIN Rail mountable
- Eight simultaneous call paths
- Supports up to 9,999 IXG Series mobile apps

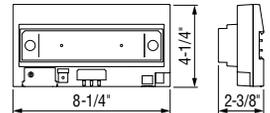
### Features (IXGW-LC, IXGW-LC-20RY)

- PoE
- 20 Form C relays, each can be configured and assigned to a specific entrance station, tenant station, or mobile app
- Ensures visitors only have access to the proper guest floor
- Up to 16 adaptors per building

### Specifications (IXGW-GW)

Power Source	PoE
Consumption	2.4W standby, 2.9W max.
LAN	Ethernet (10BASE-T, 100BASE-TX)
Packet Delivery	Unicast, Multicast
Protocol	IPv4/v6, TCP, UDP, SIP, HTTPS, RTP, RTCP, SRTP, SRTP, IGMP, MLD, SFTP, DHCP, NTP, DNS, MQTT, ICE, DTLS, SDP
Encryption	TLS 1.0, 1.1, 1.2
Temp. Rating	14°~122°F (-10°~50°C)
Wire Type	Cat-5e or Cat-6
Distance	Adaptor to Network Node: 330'

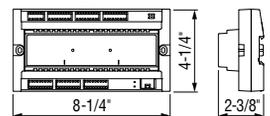
### IXGW-GW



### Specifications (IXGW-LC, IXGW-LC-RY20)

Power Source	PoE
Consumption	2.1W standby, 4.4W max.
Relay Rating	24V AC/DC, 500mA
LAN	Ethernet (10BASE-T, 100BASE-TX)
Packet Delivery	Unicast, Multicast
Protocol	IPv4/v6, TCP, UDP, HTTP, HTTPS, IGMP, MLD, FTP, DHCP, NTP, DNS, TLS
Encryption	TLS 1.0, 1.1, 1.2
Temp. Rating	14°~122°F (-10°~50°C)
Distance	Adaptor to Network Node: 330'

### IXGW-LC, IXGW-LC-RY20



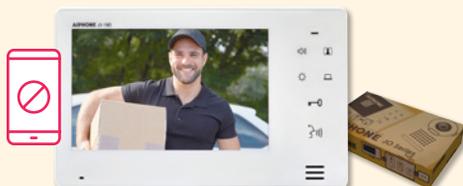
## Video Master & Expansion Stations



### JO-1MDW

App-Compatible Video Master Station  
(included with JOS-1AW, JOS-1VW, and JOS-1FW box sets – also sold separately)

- Connect up to eight free mobile apps
- 7" LCD touchscreen
- Built-in expandable memory for recording calls
- Hands-free or push-to-talk communication



### JO-1MD

Video Master Station  
(included with JOS-1A, JOS-1V, and JOS-1F box sets – not sold separately)

- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication



### JO-1FD

Video Expansion Station

- 7" LCD screen
- Touch buttons
- Hands-free or push-to-talk communication

### Features

- Video identification and monitoring
- Slim design
- Hands-free communication or push-to-talk

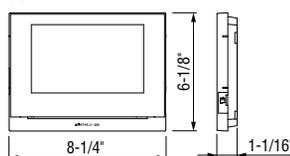
**Features** (additional for JO-1MDW)

- Up to eight free mobile apps can be connected with app-compatible video master station
- 7" touchscreen
- Built-in expandable memory for recording calls

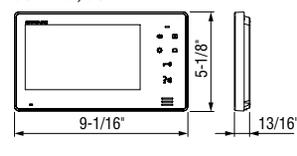
### Specifications

Power Source	18V DC—use PS-1820UL
Communication	Hands-free (VOX) or push-to-talk (simplex)
Video Display	JO-1MDW: 7" LCD touchscreen JO-1MD, JO-1FD: 7" LCD screen
Picture Memory	Internal/Built-In: record ten calls max. (ten seconds per call) with up to five calls protected from overwriting SD/SDHC card: record max. 1,000 calls (10 seconds per call) with up to 100 calls protected from overwriting
Door Release	JO-1MDW: N/O dry contact, 24V AC/DC, 1A JO-1MD, JO-1FD: N/O dry contact, 24V AC/DC, 500mA
Wireless Frequency	2.4GHz
Wireless Protocols	802.11b/g/n
Mounting	Surface mount directly to wall or desk mount using MCW-S/B
Wire Type	Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Door Station to Expansion Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802 Expansion Station to Master Station: 4-cond., mid cap, solid, non-shielded—use Aiphone #871804 Expansion Station to Master Station with door release: 6-cond., mid cap, solid, non-shielded—use Aiphone #871804 + #871802
Distance	Door Station to Master Station: 165' (22 AWG) 330' (18 AWG) Door Station to Expansion Station: 165' (22 AWG) 330' (18 AWG) Expansion Station to Master Station: 165' (22 AWG) 330' (18 AWG)
Power Supply to Master Station:	16' (22 AWG) 33' (18 AWG)

### JO-1MDW



### JO-1MD, JO-1FD



## Virtual Expansion Station Mobile App



### Intercom App Type B

Virtual Expansion Station Mobile App  
for Smartphones and Tablets  
(requires JO-1MDW)

- Up to eight free mobile apps per system
- Calls can be answered and doors can be unlocked while on-the-go
- Hands-free or push-to-talk communication
- Available on Google Play™ (Google Play is a trademark of Google LLC.)
- Available on the App Store® (App Store is a service mark of Apple Inc.)

### Features

- Visitors can be answered from virtually anywhere for on-the-go security and convenience
- Works with a variety of smartphones and tablets
- Up to eight free mobile apps can be downloaded per system
- Provides ability to activate the video door station camera to monitor entry from a remote location
- Recorded calls can be viewed directly from a smartphone or tablet
- In-app door release slider prevents accidental unlocking

### Specifications

Capacity	Up to eight mobile apps per JO Series system
Door Release	In-app slider activates dry contacts on JO-1MDW
Requirements	One JO-1MDW
Network Interface	WiFi or 4G
Network Protocols	IPv4, TCP, UDP, SIP, RTP, RTCP, IGMP, DHCP
Bandwidth Usage	1.3MBs upload and download minimum
Operating System	Android™ Apple® iOS
Communication	Hands-free (VOX), push-to-talk (simplex), or "handset mode"

## 2-Door Station Adaptor



**JOW-2D**  
Two-Door Station Adaptor

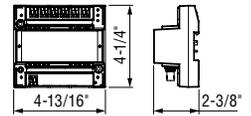
### Features

- Allows a second door station to be connected to any JO Series system
- Can be added to existing systems for upgrade opportunities
- Combined with mobile app, system can now be a full 2x10 capacity
- Selective door release is routed to the door station where communication is established

### Specifications

Power Source	18V DC (supplied by JO Series master station)
Consumption	18mA standby, 100mA max.
Relay Outputs	JO-1MDW: 24V DC, 1A JO-1MD, JO-1FD: 24V DC, 500mA
Temp. Rating	32°-104°F (0°-40°C)

### JOW-2D



## Video Door Stations



**JO-DA**  
Video Door Station  
(included with JOS-1A and JOS-1AW box sets—not sold separately)

- Plastic chassis
- Weather resistant
- Surface mount



**JO-DV**  
Video Door Station  
(included with JOS-1V and JOS-1VW box sets—also sold separately)

- Zinc die cast cover
- Weather and vandal resistant
- Surface mount



**JO-DVF**  
Video Door Station  
(included with JOS-1F and JOS-1FW box sets—not sold separately)

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (back box included)



Surface mount box available for flush mount station!  
See p. 90

### Features

- Fixed camera provides clear video
- LED illumination automatically turns on in low light conditions

### Features

- (additional for JO-DA)
- Mounts directly to wall or 1-gang box
- LED backlit call button

### Features

- (additional for JO-DV)
- Compatible with GT-MKB-N video guard station

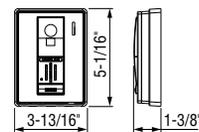
### Features

- (additional for JO-DV, JO-DVF)
- LED backlit nameplate

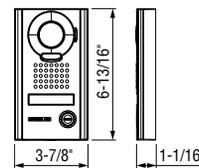
### Specifications

Power Source	Supplied by Master Station or Expansion Station
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 2'1" vertical x 3'1" horizontal at 20"
Temp. Rating	-4°-140°F (-20°-60°C)
Material	JO-DA: fire resistant PC + ABS plastic JO-DV: zinc die cast JO-DVF: stainless steel
Mounting	JO-DA: surface mount directly to wall or 1-gang box JO-DV: surface mount directly to wall JO-DVF: flush mount with included back box or surface mount with SBX-DVF
Wire Type	Door Station to Master Station or Expansion Station: 2-cond., low cap, non-shielded—use Aiphone #871802
Distance	Door Station to Master Station or Expansion Station: 330' (18 AWG)

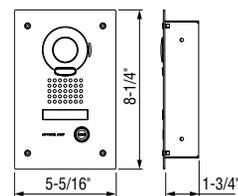
### JO-DA



### JO-DV



### JO-DVF



## Video Master & Sub Master Stations



### JP-4MED

Video Master Station  
(included with all JPS box sets)

- 7" LCD touchscreen
- Picture Memory
- Removable media storage (memory card not included)
- Hands-free communication with handset for privacy



### JP-4HD

Video Sub Master Station

- 7" LCD touchscreen
- Hands-free communication with handset for privacy

### Features

- Video identification and monitoring with 7" touchscreen
- Hands-free communication with handset for privacy
- Door release button
- Optional service button
- PTZ and brightness control
- Eight selectable call tones
- Station partitioning with security code
- All Call to inside stations
- Door monitoring
- Continuous room monitoring

### Features

(additional for JP-4MED)

- Camera position and zoom can be set for call-in
- Video out via supplied connector
- Picture Memory
- Security inputs for alerting stations

### Specifications

Power Source 24V DC—use PS-2420UL

Consumption Max. 340mA

Communication Hands-free (VOX) or handset (full-duplex)

Video Display 7" LCD touchscreen

Picture Memory Internal/Built-In: record max. 20 calls (6 images per call) with up to 5 calls protected from overwriting

SD/SDHC card: record max. 1,000 calls (40 images per call) with up to 100 calls protected from overwriting

Door Release N/O dry contact, 24V AC/DC, 500mA (use RY-1824L for larger contact rating and use RY-3DL for three or four doors)

Mounting Surface mount directly to wall or 1-gang box or desk mount using MCW-S/B

Wire Type Door Station to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Power Supply to Master Station: 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

Master Station to Adaptor: Cat-5e or Cat-6

Adaptor to Sub Master Station: Cat-5e or Cat-6

Distance Door Station to Master Station: 330'

Master Station to Distribution Adaptor: 650'

Distribution Adaptor to Sub Master Station: 165'

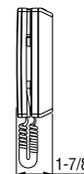
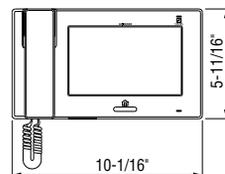
Long Distance/CCTV Adaptor to Master Station: 330'

Total Cumulative Between Inside Stations: 980'

Power Supply to Master Station: 16' (22AWG) 33' (18AWG)

Power Supply to Distribution Adaptor: 16' (22AWG) 33' (18AWG)

### JP-4MED, JP-4HD



## Long Distance/CCTV & Distribution Adaptors



### JPW-BA

Long Distance/  
CCTV Adaptor  
for Door Stations



### JP-8Z

Distribution Adaptor  
for Video Sub  
Master Stations  
(only required for  
homerun wiring methods)

### Features

- Extends wiring distance from door stations to master stations up to 980' max.

### Specifications

Power Source 24V DC—use PS-2420UL

Capacity One adaptor unit for each video door/sub master station located beyond the standard specified wire distance

Mounting DIN rail (included)

Wire Type JPW-BA: 2-cond., low cap, PE, solid, non-shielded—use Aiphone #871802

JP-8Z: Cat-5e

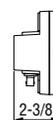
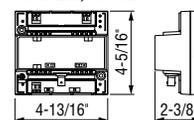
Distance JPW-BA to Door Station: 650'

JPW-BA to Master Station: 330'

JP-8Z to Master Station: 650'

JP-8Z to Sub Master Station: 165'

### JPW-BA, JP-8Z



## Audio Door Station



### GT-D

→ p. 58

### Features

See p. 58

### Specifications

See p. 58

## Video Door Stations



**JP-DA**  
Video Door Station  
(included with  
JPS-4AED box set)

- Plastic chassis
- Weather resistant
- Surface mount



**JP-DV**  
Video Door Station  
(included with  
JPS-4AEDV box set)

- Zinc die cast cover
- Weather and  
vandal resistant
- Surface mount



**JP-DVF**  
Video Door Station  
(included with  
JPS-4AEDF box set)

- Stainless steel panel
- Weather and  
vandal resistant
- Flush mount  
(back box included)



**JP-DVF-HID\***  
Card Access  
Video Door Station

- HID® ProxPoint® Plus  
Proximity Card Reader
- Stainless steel panel
- Weather and  
vandal resistant
- Flush mount  
(back box included)



**JP-DVF-RP10\***  
Card Access  
Video Door Station

- HID® multiCLASS SE®  
Proximity Card Reader
- Stainless steel panel
- Weather and  
vandal resistant
- Flush mount  
(back box included)



Surface mount boxes  
available for flush mount  
stations! See p. 90

\* HID® stations require a third-party host. Power for card reader and door strike require additional wire.

### Features

- Digital PTZ camera provides clear video
- LED illumination automatically turns on in low light conditions

### Features

(additional for JP-DA)

- Mounts directly to wall or 1-gang box
- LED backlit call button

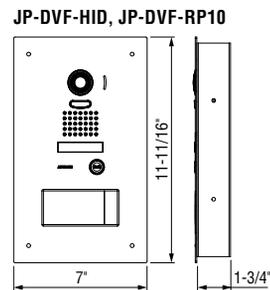
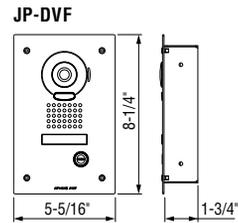
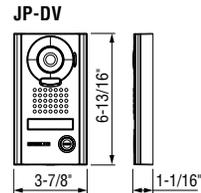
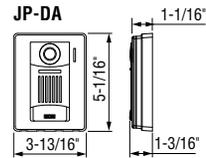
### Features

(additional for JP-DV, JP-DVF, JP-DVF-HID, JP-DVF-RP10)

- LED backlit nameplate

### Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Camera	Type: 1/4" CMOS View Area: 100° vertical x 170° horizontal
Temp. Rating	-14°~140°F (-10°~60°C)
Material	JP-DA: fire resistant PC + ABS plastic JP-DV: zinc die cast JP-DVF, JP-DVF-HID, JP-DVF-RP10: stainless steel
Mounting	JP-DA: surface mount directly to wall or 1-gang box JP-DV: surface mount directly to wall JP-DVF: flush mount with included back box or surface mount with SBX-DVF JP-DVF-HID, JP-DVF-RP10: flush mount with included back box or surface mount with SBX-IDVFRA
Wire Type	Door Station to Master Station: 2-cond., low cap, non-shielded—use Aiphone #871802
Distance	Door Station to Master Station: 330' Door Station to Long Distance/CCTV Adaptor: 650'



# KB Series Components

## Video & Audio Master Stations



**KB-3MRD**  
Video Master Station

- 4" LCD screen
- Handset for privacy



**KB-3HRD**  
Video Sub Master Station

- 4" LCD screen
- Handset for privacy



**KB-3SD**  
Audio Sub Master Station

- Handset for privacy

### Features

- All Call
- Chime and receiver volume control
- Optional selective door release with RY-3DL
- Two-way communication between inside stations

### Features

- (additional for KB-3MRD)
- Video out to DVR via supplied connector

### Features

- (additional for KB-3MRD, KB-3HRD)
- Video identification and monitoring with 4" screen
  - Instant voice call-in with image
  - Built-in illumination for low light conditions
  - Selective Call

### Specifications

- Power Source 24V DC—use PS-2420UL
- Communication Handset (full-duplex)
- Video Display KB-3MRD, KB-3HRD: 4" LCD screen  
KB-3SD: N/A
- Door Release N/O dry contact, 12V AC, 400mA (use RY-1824L for larger contact rating or RY-3DL for two or three doors)
- Mounting Surface mount directly to wall or desk mount using MCW-S/B

- Wire Type 2-cond., mid cap, solid, non-shielded—use Aiphone #871802

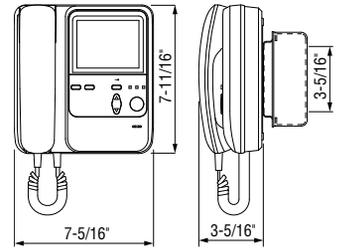
- Distance Master Station to Door Station: 330' (22 AWG) 650' (18 AWG)

- Master Station to farthest Sub Master Station: 165' (22 AWG) 330' (18 AWG)

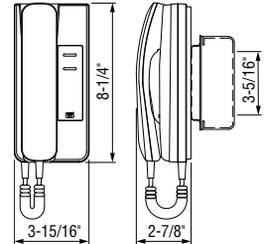
- Power Supply to Master Station: 16' (22 AWG) 33' (18 AWG)

- Power Supply to Sub Master Station: 16' (22 AWG) 33' (18 AWG)

### KB-3MRD, KB-3HRD



### KB-3SD



## Video Door Stations



**KB-DAR**  
Video Door Station

- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box



**KB-DAR-M**  
Video Door Station

- Motion detector interface
- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box

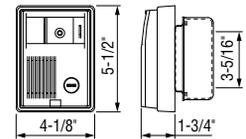
### Features

- Tilt controlled camera
- Mounts directly to wall or 1-gang box
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions

### Specifications

- Power Source Supplied by Master Station
- Communication Hands-free
- Camera Type: 1/4" CCD
- View Area: 3' 8"–7' 1" vertical x 2' horizontal at 20°
- Temp. Rating 14°–140°F (–10°–60°C)
- Material Fire resistant ABS plastic
- Mounting Surface mount directly to wall
- Wire Type Door Station to Master Station: 2-cond., low cap, non-shielded—use Aiphone #871802
- Distance Door Station to Master Station: 330' (22 AWG) 650' (18 AWG)

### KB-DAR, KB-DAR-M



## Housing Panel for KB-DAR & KB-DAR-M



**KA-DGR**  
Surface Mount Housing Panel for KB-DAR or KB-DAR-M

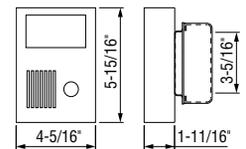
### Features

- Stainless steel construction
- Weather resistant for outdoor use
- Can be added to any existing KB-DAR or KB-DAR-M video door station

### Specifications

- Material Stainless steel
- Mounting Surface mount directly to wall

### KA-DGR



## Audio Door Stations



**AX-DM**  
→ p. 53



**IF-DA**  
→ p. 62



**IE-JA**  
→ p. 62



**IE-SS/A**  
→ p. 62



**IE-SSR**  
→ p. 62

- Features** (AX-DM)  
See p. 53

- Specifications** (AX-DM)  
See p. 53

- Features** (IE Series Door Stations)  
See p. 62

- Specifications** (IE Series Door Stations)  
See p. 62

## Auxiliary Light Control Relay



**MAW-B**  
Auxiliary Light Control Relay

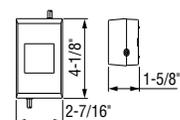
### Features

- Used for turning on an auxiliary light to spotlight a caller at the entrance
- Light is illuminated when the door call button is pushed and during visual monitoring mode

### Specifications

- Power Source Supplied by Master Station
- Contact Rating Dry closure contact for general lighting of less than 100W

### MAW-B



# LEF Series Components

## Audio Master Stations



**LEF-3**  
3-Call Audio Master Station

- Surface mount



**LEF-3L**  
3-Call Audio Master Station

- Selective door release
- Surface mount



**LEF-3C**  
3-Call Audio Master Station

- All Call button (requires BG-10C)
- Semi-flush mount



**LEF-5**  
5-Call Audio Master Station

- Selective door release
- Surface mount



**LEF-5C**  
5-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Semi-flush mount



**LEF-10**  
10-Call Audio Master Station

- Selective door release
- Surface mount



**LEF-10S**  
10-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Surface mount



**LEF-10C**  
10-Call Audio Master Station

- All Call button (requires BG-10C)
- Selective door release
- Semi-flush mount

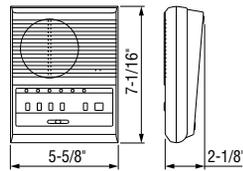
### Features

- Mix and match a variety of stations
- Complements CCTV system
- Push-to-talk communication
- LED and call-tone indicators
- Selective Call and Optional All Call

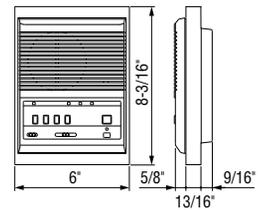
### Specifications

- Power Source 12V DC—use PS-1208UL (use PS-1225UL if installing BG-10C)
- Consumption 300mA
- Output 800mW
- Communication Push-to-talk (simplex)
- Door Release N/O dry contact, 24V DC, 1A—use one RY-PA per door being released
- Mounting Wall or desk mount
- Wire Type Variable wire types—see table on page 36
- Distance Sub Station to farthest Master Station: 650' (22 AWG) 1,600' (18 AWG)

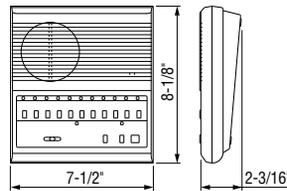
**LEF-3, LEF-3L**



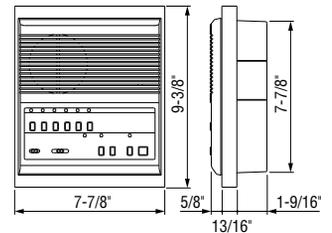
**LEF-3C**



**LEF-5, LEF-10, LEF-10S**



**LEF-5C, LEF-10C**



**NOTE:** Compatible ceiling speaker and paging adaptor are located in the Paging Accessories section (p.93).

## Audio Sub Master Stations



**LEF-1C**  
Audio Sub Master Station (requires BG-10C)

- All Call button
- Semi-flush mount



**LE-A**  
Audio Sub Station

- Surface mount



**LE-AN**  
Privacy Audio Sub Station

- Surface mount
- Privacy button



**LE-B**  
Audio Sub Station

- Semi-flush mount



**LE-BN**  
Privacy Audio Sub Station

- Semi-flush mount
- Privacy button

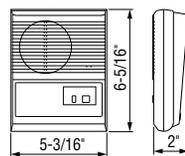
### Features

- Provides internal communication to master stations

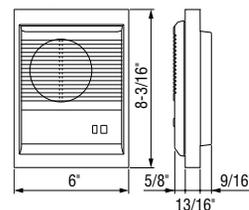
### Specifications

- Power Source Supplied by Master Station
- Communication Push-to-talk (simplex)
- Mounting Wall or desk mount
- Wire Type Variable wire types – see table on page 36
- Distance Sub Station to farthest Master Station: 650' (22 AWG) 1,600' (18 AWG)

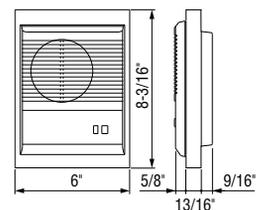
**LE-A, LE-AN**



**LE-B, LE-BN**



**LEF-1C**



# LEF Series Components (continued)

## Audio Door Stations



**LE-D**  
Audio Door Station

- Plastic chassis
- Weather resistant
- Surface mount
- Fits 1-gang box



**LE-DA**  
Audio Door Station

- Stainless steel cover
- Weather resistant
- Flush mount (fits 2-gang box)



**LE-SS-1G**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 1-gang box – internal door station dimensions are 2-15/16" H x 1-15/16" W x 1-13/16" D)



**LE-SS/A**  
Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)



**LE-SSR**  
Audio Door Station

- Red mushroom call button
- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)



**Surface mount boxes available for flush mount stations! See p. 90**



**LE-NVP/C**  
Audio Door Station

- Powder-coated steel panel
- Weather and vandal resistant
- Flush mount (fits 3-gang box)

### Features (LE-D)

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design
- Mounts directly to wall or 1-gang box

### Features (LE-DA)

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Slim flush mount design with stainless steel cover
- Mounts to 2-gang box or ring

### Features

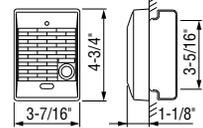
(LE-SS-1G, LE-SS/A, LE-SSR, LS-NVP/C)

- Weather and vandal resistant
- Stainless steel, mechanical call button (LE-SS/A, LS-NVP/C)
- Red mushroom call button (LE-SSR)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Pigtail wires for connection to master station
- Includes tamper proof mounting screws

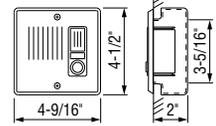
### Specifications

Power Source	Supplied by Master Station
Communication	Hands-free
Temp. Rating	14°–140°F (-10°–60°C)
Material	LE-D: fire resistant ABS plastic LE-DA: ABS plastic with stainless steel cover LE-SS-1G, LE-SS/A, LE-SSR: stainless steel LS-NVP/C: carbon steel with powder-coated white baked epoxy finish
Mounting	LE-D: surface mount directly to wall LE-SS-1G: flush mount with 1-gang box/ring or surface mount with SBX-1G LE-DA, LE-SS/A, LE-SSR: flush mount with 2-gang box/ring or surface mount with SBX-2G/A LS-NVP/C: flush mount with 3-gang box/ring or surface mount with SBX-NVP/A
Wire Type	Door Station to LEF Master Station: 3-cond., overall shield—use Aiphone #822203 Door Station to LEM Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802
Distance	Door Station to Master Station: 650' (22 AWG) 1,600' (18 AWG)

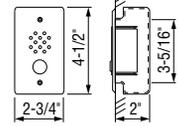
### LE-D



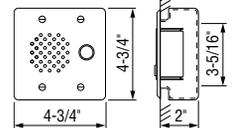
### LE-DA



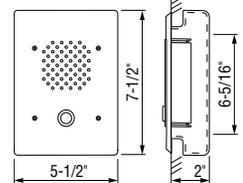
### LE-SS-1G



### LE-SS/A, LE-SSR



### LS-NVP/C



## Door Release Relay



**RY-PA**  
Door Release Relay

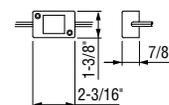
### Features

- Door release activation
- N/O contact output

### Specifications

Power Source	12V DC
Contact Rating	24V DC, 1A or 240V AC, 300mA

### RY-PA



## All Call, Music, & Chime Adaptor



**BG-10C**  
All Call, Chime, and Music Adaptor  
(1 BG-10C is required for up to 11 stations)

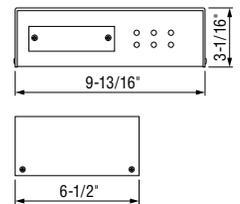
### Features

- Music ON/OFF switch plus music and chime selector switch for each station
- Chime volume control plus music, bass, and treble controls
- All Call pre-tone volume and speech volume controls
- Terminals for power supply, music and door station connection and LEF-C network (All Call and music receiving)
- Provides All Call and door chime for LEF-C and LEF-10S systems
- Background music input

### Specifications

Power Source	12V DC, 2.5A—use PS-1225UL Standby: 100mA
All Call Transmit	From LEF-1C, LEF-3C, LEF-5C, LEF-10C, LEF-10S
All Call Receive	All LEF Master Stations
BGM Input	AUX R, E and AUX L, E
Controls	Music ON/OFF, 11 selector switches of music and chime (off or chime only)
Wire Type	BG-10C to LEF-10C: 19 wires max.—use Aiphone #822220 To each LE-D or LE-DA: 3 wires—use Aiphone #822203

### BG-10C



## Matching Transformer & Terminal Boxes



**LT-1**  
20Ω-to-8Ω  
Matching Transformer



**LEW-5, LEW-10, LEW-10S**  
Terminal Box

### Features (LT-1)

- Matches impedance when using an 8Ω speaker
- Provides better sound quality

### Features (LEW-5, LEW-10, LEW-10S)

- Remote terminal box for wire organization to masters mounted on a table or desk

# LEM Series Components

## Audio Master Stations



**LEM-1**  
1-Call Audio Master Station  
(for applications using one door/sub station)  
• Surface mount



**LEM-3**  
3-Call Audio Master Station  
(for applications using two or three door/sub stations)  
• Surface mount

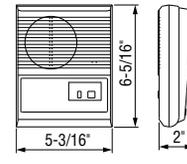
### Features

- Voice volume control
- Push-to-talk communication

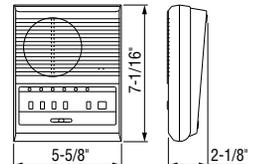
### Specifications

Power Source	6V DC—use SKK-620C
Consumption	200mA
Output	350mW
Communication	Push-to-talk (simplex)
Door Release	N/A

### LEM-1



### LEM-3



**NOTE:** Compatible ceiling speaker and paging adaptor are located in the Paging Accessories section (p. 93).

Mounting Wall or desk mount

Wire Type Door Station or Sub Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802

Distance Door Station or Sub Station to Master Station: 650' (22 AWG) 1,570' (18 AWG)

## Audio Sub Master Stations



**LE-A**  
→ p. 79



**LE-AN**  
→ p. 79



**LE-B**  
→ p. 79



**LE-BN**  
→ p. 79

### Features

See p. 79

### Specifications

See p. 79

## Audio Door Stations



**LE-D**  
→ p. 80



**LE-DA**  
→ p. 80



**LE-SS-1G**  
→ p. 80



**LE-SS/A**  
→ p. 80



**LE-SSR**  
→ p. 80



**LS-NVP/C**  
→ p. 80

### Features

See p. 80

### Specifications

See p. 80

## Matching Transformer



**LT-1**  
→ p. 80

### Features

See p. 80

# LEM-1DL Series Components

## Audio Master Stations



**LEM-1DL**  
Audio Master Station  
(requires one DAK-2S per every two master stations in the system)  
• Door release button



**LEM-1DLC**  
Audio Master Station  
• Multi-master (max. four)  
• Door release button  
• Occupied LED

### Features

- Door release (N/O contact)
- Calling and two-way communication with door station
- Call tone and voice volume control

**NOTE:** Compatible door stations are located in the LEF Series Components (p. 80). Compatible dual master adaptor kit is located in the Relay & Adaptor Accessories section (p. 94).

### Specifications

Power Source	12–16V AC—use PT-1210NA or 12–24V DC—use PS-1208UL
Consumption	4W (16V AC) max., 200mA (24V DC) max.
Output	100mW
Communication	Push-to-talk (simplex)
Door Release	N/O dry contact, 30V AC/DC, 1A

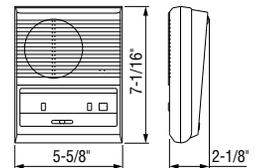
Mounting Wall or desk mount

Wire Type Door Station to Master Station: 2-cond., overall shield—use Aiphone #822202 or #821802

Between LEM-1DLCs: 3-cond., overall shield—use Aiphone #822203 or #821803

Distance Door Station to farthest Master Station: 650' (22 AWG) 1,570' (18 AWG)

### LEM-1DL, LEM-1DLC



# MC Series Components

## Audio Master Station



### MC-60/4A

Audio MarketCom  
Master Station

- Four communication channels with LED indicators
- Easy access page button
- Handset for privacy
- Wall mount

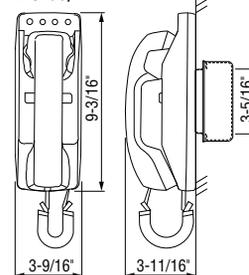
### Features

- Four selectable talk channels with in-use LEDs
- Crosstalk reduction circuit
- Reinforced modular coil cord

### Specifications

- Power Source 24V DC—use PS-2420UL
- Consumption 70mA (paging mode)
- Communication Handset (full-duplex)
- Mounting Surface mount directly to wall
- Wire Type 7 wires in loop, non-twisted, low capacitance, PE insulation—use Aiphone #852207
- Distance Paging Adaptor to farthest Master Station on block:  
1,700' (22 AWG) 4,000' (18 AWG)
- Total cumulative wiring between Paging Adaptor and Master Station: 5,000' (22 AWG)

### MC-60/4A



**NOTE:** Compatible ceiling speaker and paging amplifiers are located in the Paging Accessories section (p. 93).

## Paging Adaptor



### MC-A/A

Paging Adaptor  
for MC Series

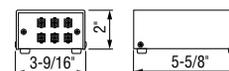
### Features

- Separate music and paging controls: bass, treble and volume
- Paging pre-tone volume control
- Connects to standard paging amplifier
- Background music can be included and automatically mutes during page

### Specifications

- Power Source 24V DC—use PS-2420UL
- Input AUX 10kΩ, 0.3V–0.5V
- Music Output Range 100mV–1.2V, 10kΩ or less

### MC-A/A



# NHX Series Components

## Central Control Unit



### NHX-80X

Central Control Unit



### NHR-30K

30-Call Add-On  
Truck Card  
(required for NHX-30G)

### Features

- (NHX-80X)
- UL 1069 Listed
  - Controls system functions with microprocessor
  - All wire terminations are made inside with easy "screwless" wire connections

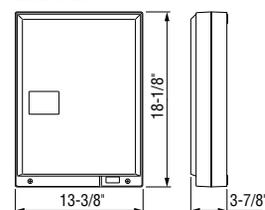
### Features

- (NHR-30K)
- Provides additional capacity for NHX-30G add-on selector

### Specifications (NHX-80X)

- Power Source 24V DC—use two PS-2420ULs
- Wire Type Sub/Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield—use Aiphone #862208
- Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield—use Aiphone #862210
- Distance Sub Station to Central Control Unit: 165' (22 AWG)
- Duty Station to Central Control Unit: 65' (22 AWG)
- Master Station to Central Control Unit: 65' (22 AWG)

### NHX-80X



# NHX Series Components (continued)

## Master Station & Add-On Selector



**NHX-50M**®  
50-Call Audio  
Master Station

**NHX-30G**®  
30-Call Add-On  
Selector  
(requires NHR-30K  
to be installed  
into NHX-80X)

### Features (NHX-50M)

- 3 call levels with distinct tone and light signalling for routine, urgent, and cord-out trouble calls
- Auto-connect to next call-in priority (no need to select station)
- Alert tone sounds if power or data wire is interrupted, or if handset is off-hook for more than 90 sec.
- Tone off button

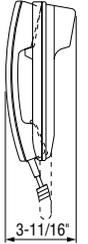
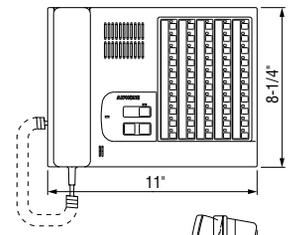
### Features (NHX-30G)

- Plugs into NHX-50M with supplied connectors
- Expands NHX-50M to an 80-call master station

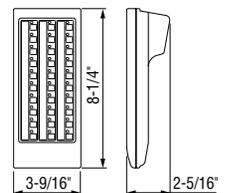
### Specifications (NHX-50M)

- Power Source** Supplied by Central Control Unit (NHX-80X)
- Communication** Handset (VOX) or push-to-talk (simplex)
- Call-In Priority**
- 1) Cord-out trouble call
  - 2) Urgent bathroom call and NHR-3TS common area bathroom/staff call
  - 3) Routine call (sub station call-ins on standby connected according to urgency level and time of call)
- Warning Tones**
- 1) Line-off trouble alert when station is unplugged (buzzer activated at NHX-50M) – to silence, plug in CNT1047 shorting connector inside NHX-80X and call for service
  - 2) 90 sec. elapse timer – call tone goes up to HIGH level
  - 3) 90 sec. off-hook timer – steady tone will notify handset is off-hook
- Wire Type** Master Station to Central Control Unit: 5 twisted pair, low cap, PE, overall shield—use Aiphone #862210
- Distance** Master Station to Central Control Unit: 65' (22 AWG)

### NHX-50M



### NHX-30G



## Sub & Duty Stations



**NH-1SA/A**®  
Single-Jack Bedside  
Audio Sub Station



**NH-2SA/A**®  
Dual-Jack Bedside  
Audio Sub Station



**NHR-SP**®  
Audio Duty  
Station



**NHR-3TS**®  
Dual Corridor  
Light Sub Station  
(required for NHR-7A if NH-1SA/A  
or NH-2SA/A are not used)

One bedside call button is required per sub station jack



**NHR-8C**®  
Bedside Call  
Button

### Features

- (NH-1SA/A, NH-2SA/A)
- Bedside sub station for calling and communication
  - Single-jack (NH-1SA/A) and dual-jack (NH-2SA/A) for NHR-8C bedside call button(s)
  - Hands-free communication
  - Flush mount with standard 2-gang box
- Features (NHR-SP)**
- Alerts staff when a master station receives a call (urgent calls override routine calls)
  - Acknowledges any station call with tone and blinking LED (use NHX-50M to identify caller or to answer call)
  - Ideal for break rooms, hallways, or locations without a master station
  - Flush mount with standard 2-gang box

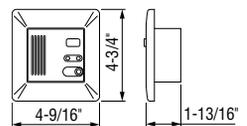
### Features (NHR-3TS)

- Provides call from common area, restrooms, or staff location
  - Allows NHR-7A pull cord to be used without the need for a bedside sub station
  - Two corridor lights indicate call location
  - Wires the same as a bedside sub station
  - Flush mount with standard 2-gang box
  - Stainless steel cover
- Features (NHR-8C)**
- Button activates routine call at master
  - Cord-out activates urgent call at master

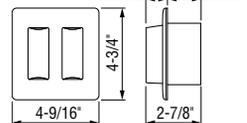
### Specifications (NH-1SA/A, NH-2SA/A, NHR-SP, NHR-3TS)

- Power Source** Supplied by Central Control Unit (NHX-80X)
- Wire Type** Sub Station or Duty Station to Central Control Unit: 4 twisted pair, low cap, PE, overall shield—use Aiphone #862208
- Distance** Sub Station to Central Control Unit: 165' (22 AWG)  
Duty Station to Central Control Unit: 65' (22 AWG)

### NH-1SA/A, NH-2SA/A, NHR-SP



### NHR-3TS



## Accessories



**NHR-7A**®  
Urgent Call  
Pull Cord



**NHR-4A/A**®  
LED Corridor Light  
(red and amber LEDs)

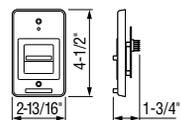
### Features (NHR-7A)

- Latching call switch
- Waterproof for bathroom areas
- Durable and strong nylon pull cord with pendant
- Can be used without cord as urgent call station (with NHR-3TS)
- LED "call placed" indicator
- Flush mount with standard 1-gang box

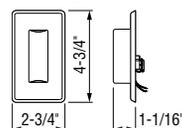
### Features (NHR-4A/A)

- Amber lamp for bedside call, red lamp for bathroom call
- Easy wiring to bedside sub station
- Flush mount with standard 1-gang box

### NHR-7A



### NHR-4A/A



# NIM Series Components

## Master Stations



### NIM-20B 20-Call Audio Master Station

- Supports up to 20 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy



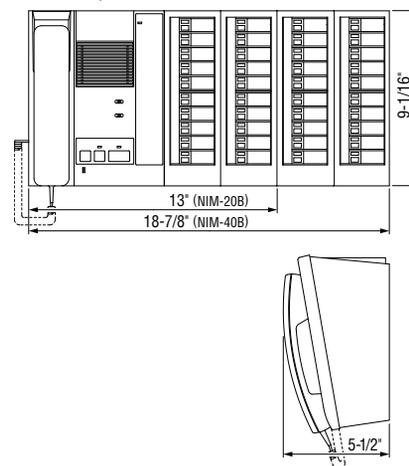
### NIM-40B 40-Call Audio Master Station

- Supports up to 40 door stations, sub stations, ceiling speakers, and wall jacks
- Selective Call, Group Call, and All Call
- Volume controls
- Handset for privacy

## Specifications

- Power Source** 48V DC—use IS-PU-UL
- Communication** Handset (VOX) or push-to-talk (simplex)
- Door Release** N/A
- Material** Panel: fire resistant ABS plastic  
Chassis: SPCC
- Wire Type** Door Station, Sub Station, Ceiling Speaker, or Wall Jack to Master Station: 3 cond. overall shield—use Aiphone #821803
- Distance** Door Station or Sub Station to Master Station: 650' (18 AWG)  
Power Supply to Master Station: 33' (18 AWG)

## NIM-20B, NIM-40B



## Door Station



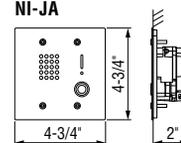
### NI-JA Audio Door Station

- Stainless steel panel
- Weather and vandal resistant
- Flush mount (fits 2-gang box)

## Specifications

- Power Source** Supplied by Master Station
- Communication** Hands-free
- Temp. Rating** 14° - 140°F (-10° - 60°C)
- Material** Stainless steel
- Mounting** Flush mount with 2-gang box or surface mount with SBX-2G/A
- Wire Type** Door Station to Master Station: 3 cond. overall shield—use Aiphone #821803
- Distance** Door Station to Master Station: 650' (18 AWG)

## NI-JA



## Sub Stations



### NI-BA Audio Sub Station

- Surface mount



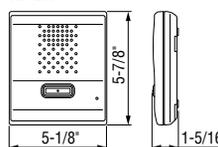
### NI-RC Bedside Sub Station

- Handheld

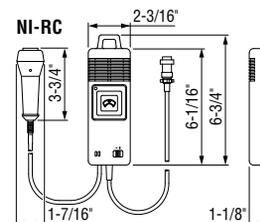
## Specifications

- Power Source** Supplied by Master Station
- Communication** Hands-free
- Material** Plastic
- Mounting** NI-BA: surface mount directly to wall or desk mount  
NI-RC: hang from hook on NIR-HPF
- Wire Type** Sub Station to Master Station: 3 cond. overall shield—use Aiphone #821803
- Distance** Sub Station to Master Station: 650' (18 AWG)

## NI-BA



## NI-RC



## Ceiling Speaker & Ceiling Microphone



### NI-LB Ceiling Speaker

(use NI-SB or NIR-MB for hands-free reply)

- Call-in LED
- Indoor use
- Flush mount



### NI-SB Ceiling Microphone

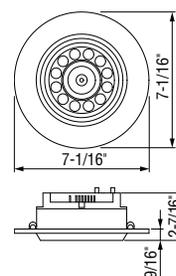
(for use with NI-LB)

- Stainless steel panel
- Hands-free reply
- Indoor use
- Flush mount

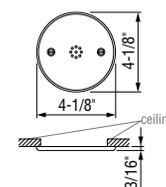
## Specifications

- Power Source** Supplied by Master Station
- Communication** NI-LB: hands-free (receive)  
NI-SB: hands-free (transmit)
- Material** NI-LB: ABS plastic  
NI-SB: stainless steel
- Mounting** Ceiling flush mount
- Wire Type** Ceiling Speaker to Master Station: 3 cond. overall shield—use Aiphone #821803  
NIR-MB to Ceiling Speaker: 4-cond. overall shield—use two runs of #821802

## NI-LB



## NI-SB



# NIM Series Components (continued)

## Call Buttons & Wall Jacks



**NIR-6**  
Call Button

- Flush mount (fits 1-gang box)



**NIR-8**  
Bedside Call Button

- Handheld



**NIR-1**  
Wall Jack for NIR-8

- Flush mount (fits 1-gang box)



**NIR-MB**  
Wall Jack with Mic for NIR-8

- Flush mount (fits 1-gang box)



**NIR-7BS**  
Wall Jack with LED Call Indicator for NIR-8

- Flush mount (fits 1-gang box)



**NIR-HP**  
Wall Jack for NI-RC

- Flush mount (fits 1-gang box)



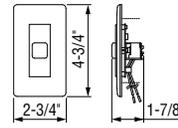
**NIR-HPF**  
Wall Jack for NI-RC

- Includes hook to hang NI-RC
- Flush mount (fits 2-gang box)

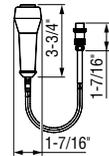
### Specifications

- Power Source Supplied by Master Station
- Material Fire resistant ABS plastic
- Mounting NIR-6, NIR-1, NIR-MB, NIR-7BS, NIR-HP: flush mount with 1-gang box
- NIR-HPF: flush mount with 2-gang box
- Wire Type Variable wire types – refer to installation manual

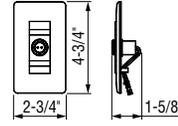
### NIR-6



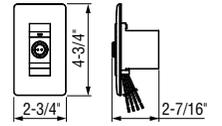
### NBR-8A



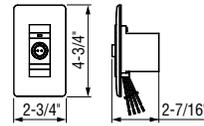
### NIR-1



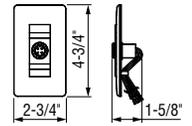
### NIR-MB



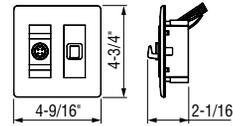
### NIR-7BS



### NIR-HP



### NIR-HPF



## Accessories



**NIR-2**  
Call Reset Button



**NIR-4**  
Single Room Corridor Call Light



**NIR-4S**  
Multi-Room Corridor Call Light



**NIR-4BZ**  
Corridor Light with Tone Indicator



**NIR-42**  
Corridor Light with Call Reset Button



**NIR-31**  
Corridor Light with 1 Magnetic Nameplate



**NIR-32**  
Corridor Light with 2 Magnetic Nameplates



**NIR-34**  
Corridor Light with 4 Magnetic Nameplates



**NIR-7W**  
Bathroom Call Button



**NIR-7HW**  
Bathroom Call Button with Pull Cord

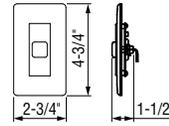


**NI-SOFT**  
Call Event Log PC Software (includes RS-232 cable, approx. 40')

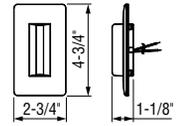
### Specifications (NIR-2, NIR-4, NIR-4S, NIR-4BZ, NIR-42, NIR-31, NIR-32, NIR-34, NIR-7W, NIR-7HW)

- Power Source Supplied by Master Station
- Material Fire resistant ABS plastic
- Mounting NIR-2, NIR-4, NIR-4S, NIR-7W, NIR-7HW: flush mount with 1-gang box
- NIR-4BZ, NIR-42: flush mount with 2-gang box
- NIR-31, NIR-32, NIR-34: surface mount directly to wall
- Wire Type Variable wire types – refer to installation manual

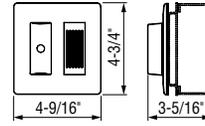
### NIR-2



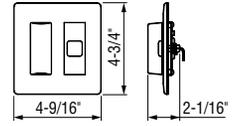
### NIR-4, NIR-4S



### NIR-4BZ



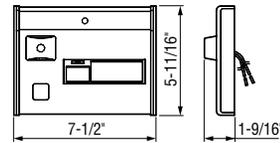
### NIR-42



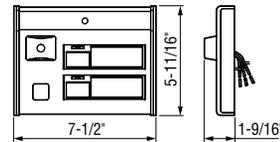
### Specifications (NI-SOFT)

- Software OS: Windows® 7 (32/64 bit), Windows® 8 (32/64 bit), Windows® 10
- Processor: 3GHz or faster
- Memory: 2GB of RAM
- Hard Drive: 100MB or more

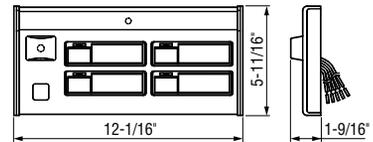
### NIR-31



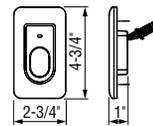
### NIR-32



### NIR-34



### NIR-7W, NIR-7HW



# TD-H Series Components

## Audio Master Stations



**TD-1H/B**  
1-Call Audio Master Station  
*(cannot be used for door answering)*

- Handset for privacy



**TD-3H/B**  
3-Call Audio Master Station

- Handset for privacy



**TD-6H/B**  
6-Call Audio Master Station

- Handset for privacy



**TD-12H/B**  
12-Call Audio Master Station

- Handset for privacy



**TD-24H/B**  
24-Call Audio Master Station

- Handset for privacy

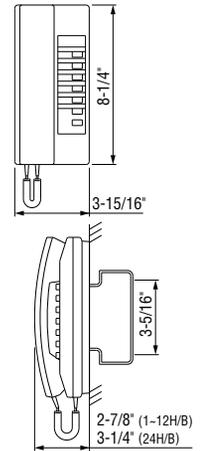
### Features

- Multiple talk paths for communication and paging
- Handset cradle for wall mounting can be reversed for desk use
- Station-select break-in call

### Specifications

Power Source	12V DC—use PS-1225UL
Consumption	70mA per station
Communication	Handset (full-duplex)
Door Release	N/O dry contact, 30V AC/DC, 1A (at DE-UR)
Mounting	Desk mount or surface mount directly to wall or 1-gang box
Wire Type	TD-1H/B: 6-cond., overall shield—use Aiphone #822206 TD-3H/B, TD-6H/B: 10 cond., overall shield—use Aiphone #822210 TD-12H/B, TD-24H/B: 16 cond., overall shield—use Aiphone #812216 (two runs of 812216 are required for full functionality of the TD-24H/B)
Distance	Between Master Stations: 2,000' (22 AWG) 4,800' (18 AWG)

### TD-nH/B (n = 1, 3, 6, 12, 24)



## Door Station Adaptor



**DE-UR**  
Door Station Adaptor

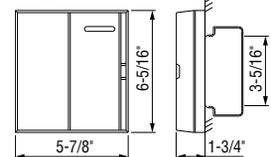
### Features

- Activates door release
- Call tone modulating circuits (2-1/2 sec. timed)
- Includes door release control terminals

### Specifications

Power Source	12V DC – supplied by Master Station
Consumption	120mA
Terminals	30V AC/DC, 1A
Wire Type	Door Station to Adaptor: 2-cond., overall shield—use Aiphone #822202 Adaptor to Master Station: 6-cond., overall shield—use Aiphone #822206
Distance	Door Station to Adaptor: 500' (22 AWG) 1,200' (18 AWG)

### DE-UR



# TD-H Series Components (continued)

## Audio Door Stations



**AX-DM**  
→ p. 53



**IF-DA**  
→ p. 62



**IE-JA**  
→ p. 62



**IE-SS/A**  
→ p. 62



**IE-SSR**  
→ p. 62

**Features** (AX-DM)  
See p. 53

**Features** (IF-DA, IE-JA, IE-SS/A, IE-SSR)  
See p. 62

**Specifications** (AX-DM)  
See p. 53

**Specifications** (IF-DA, IE-JA, IE-SS/A, IE-SSR)  
See p. 62

## Paging Adaptors



**PD-1**  
Zone Paging Adaptor  
for TD-H Series



**PD-2**  
Zone Paging/Talkback Adaptor  
for TD-H Series

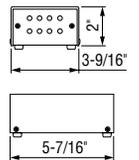
### Features

- Provides paging from TD-H handsets to an overhead PA system
- Single or multi-zones, one station capacity per zone
- PAGE button located in TD-H handsets
- Music source connection, automatically mutes when paging

### Specifications

<b>Power Source</b>	PD-1: 12V DC, 30mA – supplied by Master Station PD-2: 12V DC, 48mA (talkback) – supplied by Master Station
<b>Output</b>	5kΩ, 1.5V max.
<b>Paging and Music Controls</b>	Treble: 12dB at 10kHz Bass: 12dB at 100kHz
<b>Amp. Input</b>	AUX or PHONO 100K–500kΩ, 0.12V–0.5V
<b>Music Input</b>	17kΩ, 0.3V, 1kHz for full output
<b>Tuner Output</b>	Audio output range: 100mV–1.2V, 10kΩ or less
<b>Talkback Gain</b>	40dB, 1kHz at max. volume
<b>Environmental Noise</b>	Less than 80dB (phono)
<b>Wire Type</b>	Adaptor to Amplifier: 2-cond., overall shield—use Aiphone #822202 Adaptor to Master Station: 3-cond., overall shield—use Aiphone #822203

### PD-1, PD-2



**NOTE:** Compatible ceiling speaker and paging amplifiers are located in the Paging Accessories section (p. 93).

## Terminal Box



**TDW-nA**  
Terminal Box for TD-nH/B  
(n=1, 3, 6, 12 or 24)

### Features

- Remote terminal box for wire organization to masters mounted on a table or desk

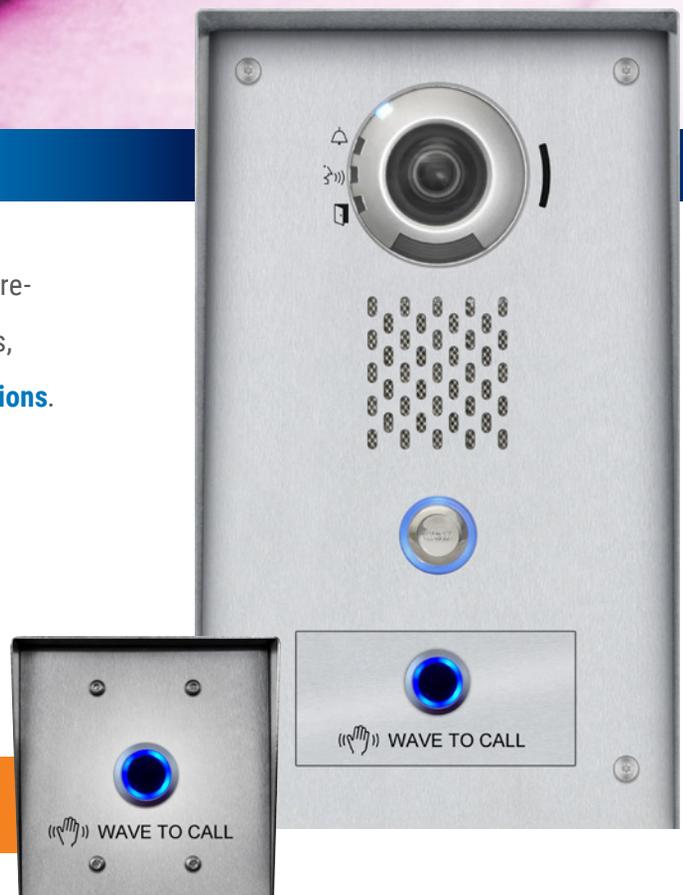
# Wave Hello to Cleaner, Touch-Free Calling



Introducing Aiphone's NEW touchless sensor for gesture-activated calling. Compatible with our flexible IX Series, **it's easy to add the sensor to new or existing installations.**

- Contactless way for visitors to initiate a call
- Reduces the spread of germs and bacteria
- Aesthetic design complements building exteriors

Learn more at [aihone.com/glc\\_wave](https://aihone.com/glc_wave)



# Accessories

## Access Control, Call Chime, and Door Release Accessories

### Stand-Alone Access Control Keypads



**AC-10S**  
Stand-Alone Access Control Keypad

- Body style matches JK-DV, JO-DV, and JP-DV
- Zinc die cast cover
- Surface mount



**AC-10F**  
Stand-Alone Access Control Keypad

- Zinc die cast panel
- Flush mount

#### Features

- Access control with up to 100 unique user codes
- Can be used as a stand-alone access control device
- Compact size in a stylized design
- 12-digit backlit keypad
- Easy to install

#### Specifications

Power Source 12–24V AC/DC, 100mA (AC) 70mA (DC)

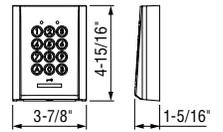
Output Rating Two Form C dry contacts, 24V AC/DC, 3A (resistive), 1A (inductive)

Temp. Rating -4°–140°F (-20°–60°C)

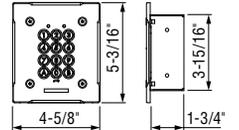
Material Zinc die cast

Mounting AC-10S: surface mount directly to wall  
AC-10F: flush mount with included back box

#### AC-10S



#### AC-10F



### Call Extension Speaker



**IER-2**  
Call Extension Speaker for DB Series, JF Series, JK Series, JO Series, JP Series, KB Series, or NIM Series

#### Features

- Announces chime tone only
- Adjustable volume (three positions)
- Indoor mounting

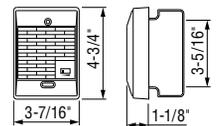
#### Specifications

Material ABS plastic

Mounting Surface mount directly to wall or 1-gang box

Wire Type Single pair of wires, non-polarized

#### IER-2



### Electric Door Strike



**EL-12S**  
Electric Door Strike for Wood Frames  
(requires PT-1210NA unless used with DA or DB Series)



**PT-1210NA**  
12V AC Transformer  
→ p. 95

#### Features

- Controlled by N/O contact or voltage output
- Includes both flush mount plate (comes attached) and surface mount plate
- Can be used with AX Series, C-123L/A Set, C-123LW Set, DA-1DS, DA-2DS, DA-4DS, IE-8 Series, IX Series, JF Series, JO Series, JP Series, KB Series, LEF Series, LEM-1DL Series, or LEM-1DLC

#### Specifications

Power Source 12V AC/DC, 125mA (AC) 200mA (DC)—use PT-1210NA

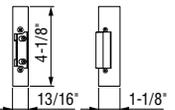
Rated Resistance DC 60Ω

Break-In Resistance 4,000 N

Temp. Rating 5°–140°F (-15°–60°C)

Material Jaw/Body: zinc die cast  
Plate: steel

#### EL-12S



### Door Release Adaptor



**RY-3DL**  
Selective Door Release Adaptor for JF Series, JP Series, or KB Series

#### Features

- Selective door release with one button
- Door release contacts release the door where communication is established
- Normally open (N/O) contacts for electric strike
- Normally closed (N/C) contacts for magnetic locks

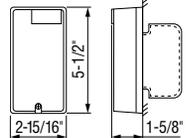
#### Specifications

Power Source Shared with Master Station—use PS-1820UL (JF Series) or PS-2420UL (JP Series or KB Series)

Contact Rating Three Form C dry contacts, 50V AC, 1A 30V DC, 1A

Distance Master Station to Door Release Adaptor: 165' (22 AWG) 330' (18 AWG)

#### RY-3DL



### Form C Door Release Relays



**RY-1824L**  
Form C Door Release Relay for AX Series, JF Series, JO Series, JP Series, or KB Series

#### Features

- Normally open (N/O) contact with high current rating for door strikes
- Normally closed (N/C) contact with high current for magnetic locks
- Use with any 18-24V system that requires door release

#### Specifications

Power Source Supplied by Master Station or CEU

Relay Input 18-24V DC, red and black wires, 22AWG

Relay Output Brown, yellow, and orange wires, 18AWG

Output Rating 30V DC, 5A 250V AC, 8A

Wire Type 2-cond. to door release and 2-cond. to strike with power for strike wired in system

Dimensions 1-7/16" H x 13/16" W x 7/16" D (with wires extending approx. 7-1/2")

# Mounting Accessories

## Surface Mount Boxes



**SBX-ACE**  
Surface Mount Box for AX-DM, GT-D, IF-DA, JO-DA, JP-DA, KB-DAR, or KB-DAR-M and one Access Control Device



**SBX-DVF**  
Surface Mount Box for JK-DVF, JO-DVF, or JP-DVF



**SBX-AXDVF**  
Surface Mount Box for AX-DVF



**SBX-DVF-P**  
Surface Mount Box for AX-DVF-P, JK-DVF-AC, or JK-DVF-HID



**SBX-IDVF**  
Surface Mount Box for IX-DVF or IX-SSA



**SBX-IDVFRA**  
Surface Mount Box for IX-DVF-2RA, IX-DVF-2RA-FR, IX-DVF-4, IX-DVF-RA, IX-DVF-RA-FR, IX-DVF-P, IX-SSA-2RA, IX-SSA-2RA-FR, IX-SSA-RA, IX-SSA-RA-FR, JP-DVF-HID, or JP-DVF-RP10



**SBX-1G**  
Surface Mount Box for LE-SS-1G



**SBX-2G/A**  
Surface Mount Box for IE-JA, IE-SS/A, IE-SSR, IX-SS-2G, LE-DA, LE-SS/A, LE-SSR, or NI-JA



**SBX-NVP/A**  
Surface Mount Box for IX-NVP or LS-NVP/C

### Features (SBX-ACE)

- Vandal resistant
- Hood provides weather resistance
- Includes blank stainless steel cover for wide range of mounting options
- Openings at bottom allow for moisture drainage

### Features (SBX-DVF, SBX-AXDVF, SBX-DVF-P, SBX-IDVF, SBX-IDVFRA)

- Hood provides weather resistance
- Includes space inside for wiring
- Mounts directly to wall
- Openings at bottom allow for moisture drainage

### Features (SBX-1G)

- Weather resistant
- Includes space inside for wiring
- Mounts directly to wall surface

### Features (SBX-2G/A)

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Includes hardware for mounting intercom

### Features (SBX-NVP/A)

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Powder-coated white baked epoxy finish

### Specifications

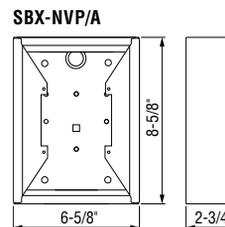
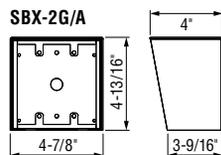
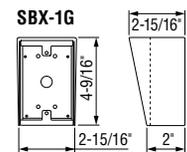
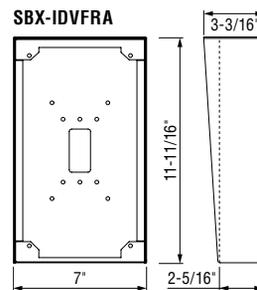
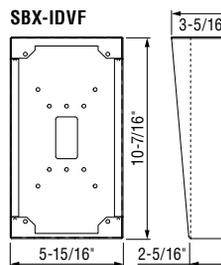
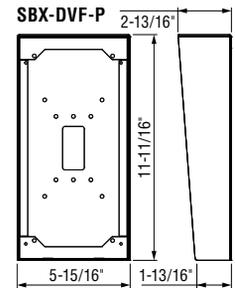
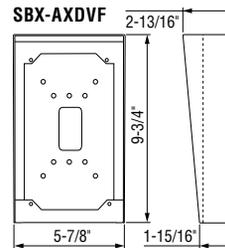
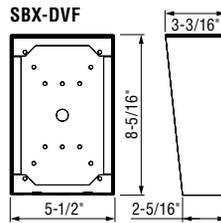
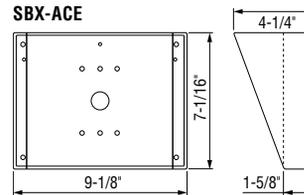
**Material** SBX-ACE, SBX-DVF-P, SBX-IDVF, SBX-IDVFRA, SBX-1G, SBX-2G/A: 18GA stainless steel

SBX-DVF, SBX-AXDVF: 16GA stainless steel (outer layer), 18GA stainless steel (inner layer)

SBX-NVP/A: 1/8" rolled steel

**Mounting** SBX-ACE, SBX-DVF, SBX-AXDVF, SBX-DVF-P, SBX-IDVF, SBX-IDVFRA: surface mount directly to wall, 1-gang box, or 2-gang box with included hardware (8 x 32 with T-15 Torx head)

SBX-1G, SBX-2G/A, SBX-NVP/A: surface mount directly to wall or 1-gang box with included hardware (8 x 32 with T-15 Torx head)



# Mounting Accessories (continued)

## Angle Boxes



**KAW-D**  
30° Angle Box for  
IF-DA, JO-DA,  
JP-DA, KB-DAR,  
or KB-DAR-M



**SBX-AXDV30**  
30° Angle Box  
for AX-DV



**SBX-DV30**  
30° Angle Box for  
JO-DV or JP-DV



**SBX-IXDV30**  
30° Angle Box  
for IX-DV

### Features (KAW-D)

- Provides a better viewing angle for the camera
- Compatible with Aiphone 1-gang surface mount door stations
- Angles 1-gang door stations outward by 30°
- Can mount to either right or left of door
- Hinged cover for mounting door station

### Features (SBX-DV30, SBX-AXDV30, SBX-IXDV30)

- Provides a better viewing angle for the camera
- Designed for angle mounting door stations outward by 30°
- Applicable for wide or double door entrances

### Specifications

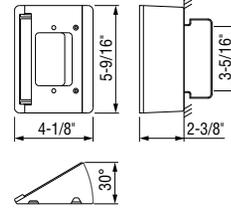
Material KAW-D: ABS plastic

SBX-IXDV30: 16GA stainless steel

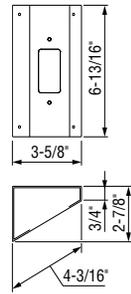
SBX-DV30, SBX-AXDV30, SBX-IXDV30: 18GA stainless steel

Mounting Surface mount directly to wall or 1-gang box

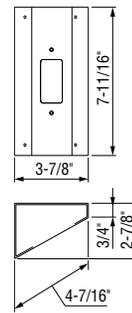
#### KAW-D



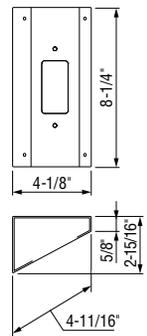
#### SBX-DV30



#### SBX-AXDV30



#### SBX-IXDV30



## Mullion Mounting Brackets



**IX-MB**  
Mullion Mounting  
Bracket for IX-DV



**JK-MB**  
Mullion Mounting  
Bracket for JO-DV  
or JP-DV



**KMB-45**  
45° Mullion Mounting  
Bracket for C-D,  
GT-D, IF-DA, JO-DA,  
JP-DA, KB-DAR,  
KB-DAR-M, or LE-D

### Features

(IX-MB, JK-MB)

- Mounts compatible station to a door frame or mullion
- Designed to fit station precisely and conceals wiring inside
- Can mount to either right or left of door

### Features (KMB-45)

- Compatible with Aiphone 1-gang surface mount door stations
- Mounts door stations to mullion with a 45° angle
- Can mount to either right or left of door
- Provides a better viewing angle for the camera

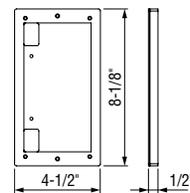
### Specifications

Material Aluminum

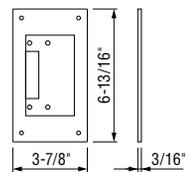
Mounting IX-MB, JK-MB: surface mount directly to mullion or 1-gang box

KMB-45: surface mount directly to side of mullion

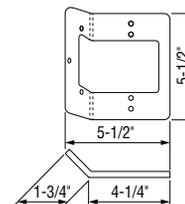
#### IX-MB



#### JK-MB



#### KMB-45



# Mounting Accessories (continued)

## Retrofit Mounting Bracket



**MB-RF1**  
Retrofit Mounting Bracket for IX-DVF-P, IX-DVF-2RA, IX-DVF-RA, IX-SSA-2RA, or IX-SSA-RA (adapts station to an existing Code Blue® or Talk-A-Phone® tower or wall box)

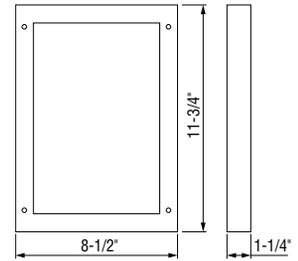
### Features

- Adapts IX Series emergency stations to existing Code Blue® or Talk-A-Phone® towers or wall boxes
- Powder-coated exterior

### Specifications

Material 18GA CRS  
Mounting Surface mount directly to tower or wall box

### MB-RF1



## Desk Stand

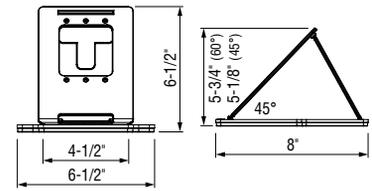


**MCW-S/B**  
Desk Stand for AX-8M, AX-8MV, AX-8MV-W, DB-1MD, DB-1SD, GT-1A, GT-1C7, GT-1C7-L, GT-1M3, GT-2C, GT-2H, IXG-2C7, IXG-2C7-L, JO-1FD, JO-1MD, JO-1MDW, JP-4HD, JP-4MED, KB-3HRD, or KB-3MRD

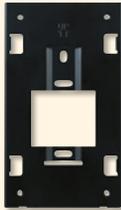
### Features

- Allows desk mounting of master and/or handset station
- Mounting hardware included
- Station is propped up for easier viewing
- Pre-drilled mounting holes
- Constructed with sturdy ABS plastic
- Adjustable to 45° or 60° angles

### MCW-S/B



## Mounting Plate

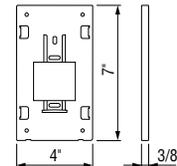


**MKW-P**  
1-Gang Mounting Plate for JO-DV or JP-DV

### Features

- Hardware included
- Adapts the JO-DV and JP-DV surface mount door stations to a standard 1-gang box or ring

### MKW-P



# Paging Accessories

## Horn Speaker



**MH-15W**  
Multi-Tap Horn Speaker

- 8Ω direct tap
- Built-in transformer for 25/70/100V systems
- Lightweight aluminum
- Weatherproof and waterproof
- Indoor and outdoor use
- Universal mounting bracket

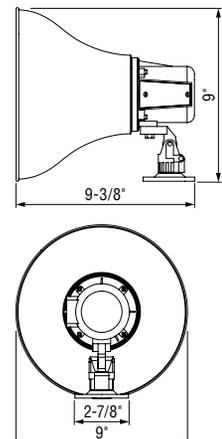
### Features

- Robust, weatherproof paging horn speaker for indoor and outdoor use
- All-metal construction
- Wide frequency response
- External adjustable power taps
- Suitable for demanding environments and installations
- Can be used with intercom systems for two-way communication that require an 8Ω direct tap
- Mounts directly to a flat surface and can be adjusted to the desired angle

### Specifications

Power Capacity 15W max.  
Impedance 5.0K, 2.5K, 1.3K, 670, 330, 90, 8Ω  
Sensitivity 120dB (measured at 1 meter on axis with 15W input)  
Frequency Response 375Hz–14kHz  
Materials Body: spun aluminum  
Driver Housing: die-cast aluminum

### MH-15W



# Paging Accessories (continued)

## Indoor Ceiling Speakers & Support Bracket



**SP-20N/A**  
Ceiling Speaker  
Sub Station  
(requires NP-25V)

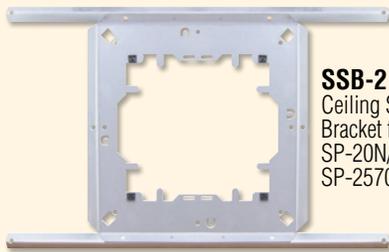
- 8Ω with 20Ω transformer
- Indoor use
- Flush mount

**SP-2570N**  
Ceiling Speaker

- 8Ω, 25/70V, 5W
- Indoor use
- Flush mount



**NP-25V**  
33µF, 25V Non-Polarized Capacitor



**SSB-2**  
Ceiling Support  
Bracket for  
SP-20N/A or  
SP-2570N

### Features

(SP-20N/A, SP-2570N)

- Can be used with any Aiphone system that has paging ability (see specifications for requirements)
- Ceiling flush mount
- 8" dual cone speaker with 12-7/8" white baffle
- Excellent sound and voice reproduction
- Easy installation in a drop tile ceiling using the SSB-2

### Features

(additional for SP-20N/A)

- Provides two-way communication with the LEF and LEM Series intercoms

### Features

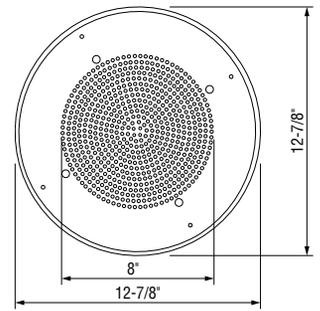
(SSB-2)

- Optional ceiling support bracket for installations in drop tile ceilings

### Specifications

Power Capacity	8W RMS
Impedance	SP-20N/A: 20Ω direct SP-2570N: 8Ω direct or 25/70V transformer
Frequency Response	65Hz–17kHz
Wattage Taps	SP-20N/A: N/A SP-2570N (25V): 0.325W, 0.625W, 1.25W, 2.5W, and 5W SP-2570N (70V): 0.312W, 0.625W, 1.25W, 2.5W, and 5W

### SP-20N/A, SP-2570N



## Paging Amplifiers



**MD35M**  
35W Paging Amplifier



**MD60M**  
60W Paging Amplifier



**MD120M**  
120W Paging Amplifier

### Features

- Can be used with any Aiphone system with paging ability (see specifications for requirements)
- 3 channel inputs
- Wide frequency response with very low distortion
- Balanced microphone input
- Phantom power on MIC input with selector
- Balanced telephone paging input
- VoIP telephone paging input
- Tel and mic VOX sensitivity control
- Auxiliary input with stereo summing
- Auxiliary input gain
- Independent input controls (bass and treble)
- Direct muting or unmuting
- 12V accessory power output
- 600Ω or 10K (VoIP) MOH output with separate output level control
- 8Ω, 25V, and 70V output impedance
- Rack mounting with optional kits

### Specifications

Power Source	120V AC, 50-60Hz
Output	35/60/120W RMS
Input	Microphone: 250Ω balanced Telephone: 600Ω balanced Auxiliary: 47kΩ VoIP: 50kΩ unbalanced
Distortion	Less than 0.5% THD
Frequency Response	20Hz–20kHz ± 2dB
Dimensions (H x W x D)	1-3/4" x 8-1/2" x 12-1/2" 44.5mm x 215.9mm x 317.5mm

## Paging Adaptor



**BA-1**  
Paging Adaptor  
for LEF Series  
or LEM Series

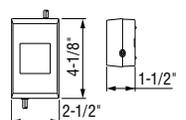
### Features

- Can be used with LEF Series or LEM Series
- Provides outgoing paging to external speakers
- Takes the place of a separate microphone for paging where there is an intercom

### Specifications

Power Source	Supplied by Master Station
Input	20Ω
Output	10kΩ
Output to Adaptor	0dB and -20dB, selectable
Requirements	AUX input (10kΩ) or 100mV for rated output
Wire Type	2-cond., overall shield—use Aiphone #822202

### BA-1



# Relay & Adaptor Accessories

## External Signaling Relays



**RY-AC/A**  
External Signaling Relay for C-123L/A Set, C-123LW Set, IE-8 Series, LEF Series, LEM Series, LEM-1DL Series, or TD-H Series (requires DAK-2S when used with C-123L/A Set, C-123LW Set, LEM Series, or LEM-1DL Series)



**RY-ES**  
External Signaling Relay for AX Series, DB Series, JF Series, JO Series, JP Series, KB Series, or NIM Series

### Features (RY-AC/A)

- Allows an external device to be triggered when the intercom is called
- External device will be activated momentarily as long as the call button on the door station is activated

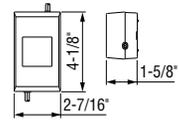
### Features (RY-ES)

- Allows an external device to be triggered when the intercom is called
- External device will be activated when the door station calls in

### Specifications

- Power Source** RY-AC/A: 12V DC—supplied by Master Station  
RY-ES: 12–24V DC, 12–16V AC—supplied by Master Station
- Contact Rating** RY-AC/A: 240V AC, 0.3A, 24V DC, 1A (bell, buzzer, chime, etc., must be AC operated or DC mechanical type only)  
RY-ES: 125V AC, 1.0A 30V DC, 1.0A

### RY-AC/A, RY-ES



## Dual Master Adaptor Kit



**DAK-2S**  
Dual Master Adaptor Kit for C-123L/A and LEM-1DL Systems

### Features

- Allows second master station to be used in C-123L/A and LEM-1DL systems
- Allows RY-AC/A to be used for external signaling in C-123L/A and LEM-1DL systems
- Two component modules per kit
- Included with the C-123LW set and C-ML/A master station

# Surge Arrestor Accessory

## Surge Arrestor

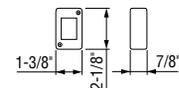


**SA-1**  
Surge Arrestor for C-123L/A Set, CCS-1A Set, GT Series, IE-8 Series, KB Series, LEF Series, LEM Series, MC Series, or Power Supplies

### Features

- A surge arrestor designed to protect Aiphone intercom systems from damage due to power surges and lightning strikes
- Can be used to protect power inputs to all Aiphone DC powered systems and intercom circuits by dispersing surges on the station wires
- Each SA-1 will protect two intercom station wires and discharge up to 180V of surge voltage

### SA-1



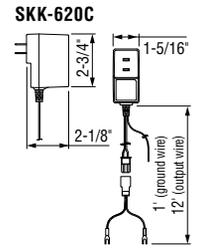
# Power Supplies & Transformers

## Power Supplies



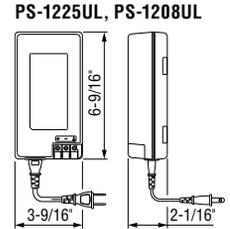
**SKK-620C**®  
6V DC, 200mA Power Supply for AT-406 Series, C-123L/A Set, C-123LW Set, or LEM Series

**Specifications** (SKK-620C)  
Cord Length 12'  
Ground Wire Length 1'  
Input 120V AC, 60Hz  
Output 6V DC, 200mA



**PS-1225UL**®  
12V DC, 2.5A Power Supply for LEF Series with All Call or TD-H Series (required for the LEF Series if using BG-10C, otherwise use PS-1208UL)

**Specifications** (PS-1225UL, PS-1208UL)  
Cord Length 6'2"  
Input 100–240V AC, 50/60Hz  
Output PS-1225UL: 12V DC, 2.5A  
PS-1208UL: 12V DC, 800mA  
Consumption 37W, 65–82VA

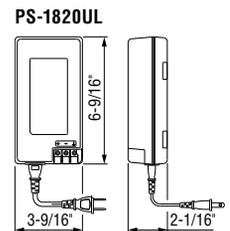


**PS-1208UL**®  
12V DC, 800mA Power Supply for LEF Series without All Call



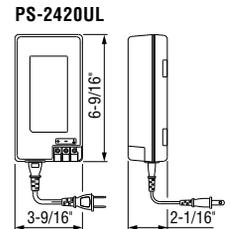
**PS-1820UL**®  
18V DC, 2A Power Supply for JF Series or JO Series

**Specifications** (PS-1820UL)  
Cord Length 6'2"  
Input 100–240V AC, 50/60Hz  
Output 18V DC, 2A  
Consumption 45W, 75–95VA



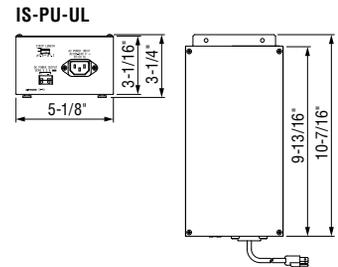
**PS-2420UL**®  
24V DC, 2A Power Supply for AX Series, GT Series, IM Series, IX Series, JP Series, KB Series, MC Series, NHX Series, or the Beacon/Strobe Light for Emergency Wall Boxes and Towers

**Specifications** (PS-2420UL)  
Cord Length 6'2"  
Input 100–240V AC, 50/60Hz  
Output 24V DC, 2A  
Consumption 60W, 100–125VA



**IS-PU-UL**®  
48V DC, 2A Power Supply for NIM Series

**Specifications** (IS-PU-UL)  
Cord Length 5'10"  
Input 100–240V AC, 50/60Hz  
Output 48V DC, 2.1A  
Consumption 120W

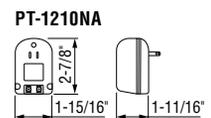


## Transformers



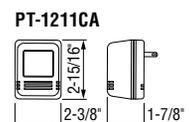
**PT-1210NA**  
12V AC Transformer for CCS-1A Set, EL-12S, IE-8 Series, or LEM-1DL Series

**Specifications** (PT-1210NA)  
Input 120V AC, 60Hz  
Output 12V AC, 10VA, 830mA  
Consumption 15W



**PT-1211CA**  
15V AC Transformer for DA-1DS, DA-4DS, or DB Series

**Specifications** (PT-1211CA)  
Input 120V AC, 60Hz  
Output 15V AC, 10VA, 700mA  
Consumption 10.5W



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LEF-10	37	79		
LEF-10C	37	79		
LEF-10S	37	79		
LEF-1C	36	79		
LEF-3	37	79		
LEF-3C	37	79		
LEF-3L	37	79		

LEF-5	37	79		
LEF-5C	37	79		
LEM-1	38	81		
LEM-1DL	39	81		
LEM-1DLC	39	81		
LEM-1DLS	39			
LEM-3	38	81		
LE-SS/A	36	38	39	80
LE-SS-1G	36	38	39	80
LE-SSR	36	38	39	80
LEW-10	80			
LEW-10S	80			
LEW-5	80			
LS-NVP/C	36	38	39	80
LT-1	80			
MAW-B	78			
MB-RF1	92			
MC-60/4A	44	82		
MC-A/A	44	82		
MCW-S/B	92			
MD120M	44	45	93	
MD35M	44	45	93	
MD60M	44	45	93	
MH-15W	44	45	92	
MKW-P	92			
MU-100	46	63		
NFC-CARD	57			
NFC-FOB	57			
NH-1SA/A	47	83		
NH-2SA/A	47	83		
NHR-30K	47	82		
NHR-3TS	47	83		
NHR-4A/A	83			
NHR-7A	83			
NHR-8A-L	47			
NHR-8C	47	83		
NHR-SP	47	83		
NHX-30G	47	83		
NHX-50M	47	83		
NHX-80X	47	82		
NI-BA	48	84		
NI-JA	48	84		
NI-LB	48	84		
NIM-20B	49	84		
NIM-40B	49	84		
NIR-1	48	85		

NIR-2	85	
NIR-31	85	
NIR-32	85	
NIR-34	85	
NIR-4	85	
NIR-42	85	
NIR-4BZ	85	
NIR-4S	85	
NIR-6	48	85
NIR-7BS	48	85
NIR-7HW	85	
NIR-7W	85	
NIR-8	48	85
NI-RC	48	84
NIR-HP	48	85
NIR-HPF	48	85
NIR-MB	48	85
NI-SB	48	84
NI-SOFT	85	
NP-25V	93	
OU-100	46	63
PD-1	45	87
PD-2	45	87
PS-1208UL	95	
PS-1225UL	95	
PS-1820UL	95	
PS-2420UL	95	
PS-POE	8	68
PT-1210NA	95	
PT-1211CA	95	
RY-1824L	89	
RY-3DL	89	
RY-AC/A	94	
RY-ES	94	
RY-PA	80	
SA-1	94	
SBX-1G	90	
SBX-2G/A	90	
SBX-ACE	90	
SBX-AXDV30	91	
SBX-AXDVF	90	
SBX-DV30	91	
SBX-DVF	90	
SBX-DVF-P	90	
SBX-GTDMB	61	
SBX-IDVF	90	

SBX-IDVFRA	90		
SBX-IXDV30	91		
SBX-IXGDM7	72		
SBX-NVP/A	90		
SKK-620C	95		
SP-20N/A	36	38	93
SP-2570N	44	45	93
SSB-2	93		
TD-12H/B	45	86	
TD-1H/B	45	86	
TD-24H/B	45	86	
TD-3H/B	45	86	
TD-6H/B	45	86	
TDW-n/A	87		
TW-20B/A	8	70	
TW-23B/A	8	70	
TW-ARM-CB	70		
TW-ASW	71		
TW-EMW	71		
TW-LCB	70		
TW-MKL	71		
TW-SPL	71		
TWS-Z1	8	69	
TWS-Z2	8	69	
TWS-Z4	8	69	
WB-CA	8	69	
WB-CE	8	69	
WB-HA	8	69	
WB-HE	8	69	
W-DIN11	61		

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# AIPHONE WIRE BY STOCK NUMBER

STOCK #	LENGTH	AWG	DESCRIPTION	INSULATION	CAPACITANCE	DC RES/1000
81221650C	500'	22	16-conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
82180210C	1,000'	18	2-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82180310C	1,000'	18	3-conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82220250C	500'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220210C	1,000'	22	2-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220350C	500'	22	3-conductor, overall shield	PVC	44.62 pf/ft	17.50 ohm
82220650C	500'	22	6-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221050C	500'	22	10-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221250C	500'	22	12-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221550C	500'	22	15-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82222050C	500'	22	20-conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
85160210C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded	PE	12.50 pf/ft	4.02 ohm
851602DBW10C	1,000'	16	2-conductor, low cap, PE, solid, non-shielded, direct burial	PE	12.50 pf/ft	4.16 ohm
85220710C	1,000'	22	7-conductor, low cap, PE, non-shielded	PE	16.50 pf/ft	17.50 ohm
86220810C	1,000'	22	4 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
86221025C	250'	22	5 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
87180250C	500'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
87180210C	1,000'	18	2-conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
871802P10C	1,000'	18	2-conductor, low cap, PVC, solid, non-shielded, plenum rated	FEP	13.00 pf/ft	6.52 ohm
87180450C	500'	18	4-conductor, low cap, PE, solid, non-shielded	PE	13.60 pf/ft	6.39 ohm
871804P50C	500'	18	4-conductor, low cap, PE, solid, non-shielded, plenum rated	FEP	23.60 pf/ft	6.80 ohm
87200250C	500'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
87200210C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
872002P10C	1,000'	20	2-conductor, mid cap, PE, solid, non-shielded, plenum rated	FEP	18 pf/ft	10.15 ohm

## WIRE NUMBER CODING

**1st digit:** 8 = Aiphone approved wire

**2nd digit:** Type of wire → 1 = non-shielded 5 = low capacitance  
 2 = shielded 6 = twisted pair / shielded  
 3 = twisted pair 7 = solid PE, low/mid capacitance

**3rd & 4th digits:** Gauge → 22 = 22 AWG 20 = 20 AWG 18 = 18 AWG 16 = 16 AWG

**5th & 6th digits:** Number of-conductors → 02 = 2-conductors 12 = 12-conductors

**7th & 8th digits:** Length of wire → 10 = 1,000' box 50 = 500' box 25 = 250' box

**9th digit:** "C" indicates new wire

**DB** = Direct Burial

**P** = Plenum

## WIRE NUMBER CODING EXAMPLE

<b>1st:</b> Aiphone Approved	<b>2nd:</b> TYPE - Shielded	<b>3rd &amp; 4th:</b> GAUGE - 22 AWG	<b>5th &amp; 6th:</b> CONDUCTORS 02=2 Conductors	<b>7th &amp; 8th:</b> WIRE LENGTH 10=1,000' Box	<b>9th:</b> "C" is New Wire
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**8**

**2**

**22**

**02**

**10**

**C**

## WIRE INFORMATION

All wire is stranded unless otherwise indicated.

Non-plenum wires have a gray jacket. Plenum wires have a natural jacket.

All wire meets the following standards: UL, C(UL), UL 444, CA Fire Marshal

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