CDVI

Security to Access

2EASY

2 YEAR WARRANTY

CDV-96KP

2EASY 2-wire Video Door Station with Keypad

EN

1] CONTENTS

2] PARTS AND FUNCTIONS

CDV96KP

30 mm

Rain Cover
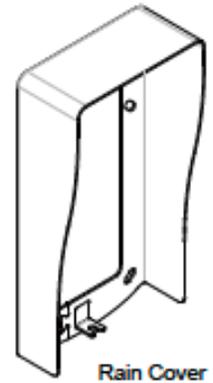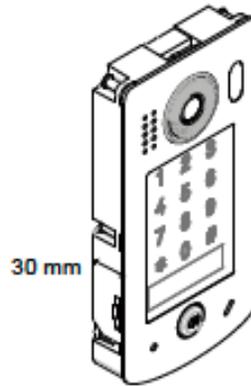
[1] Camera lens
[2] Camera LED
[3] Speaker
[4] Touch keypad

[5] Keypad LED
[6] Call button
[7] Microphone
[8] Power LED

3] TERMINAL DESCRIPTIONS

Lock Control Jumper

1 2 3

L1 L2 PL S1+ GND   Main Connect Port
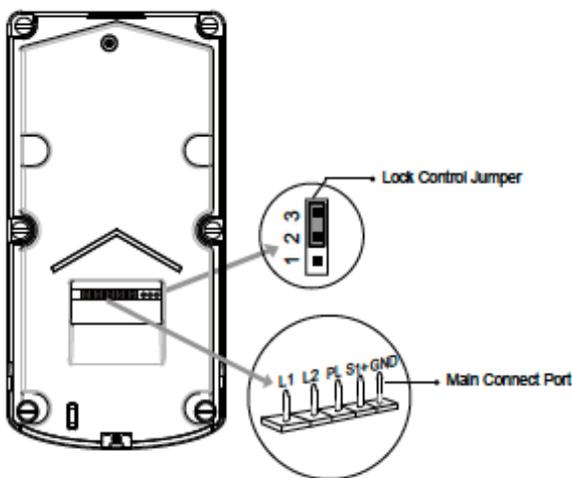
Lock Control Jumper: To select the lock type

Main Connect Port: For connection of the bus line and the electronic locks

L1, L2: Bus line connection, no polarity

PL: External lock power input

S1+, GND: Lock power connection port

4] INSTALLATION

① Drill holes in the wall to match the size of screws and attach the rain cover to the wall.

② Connect the wiring

③ Attach the panel to the rain cover

④ Using a screwdriver secure the panel
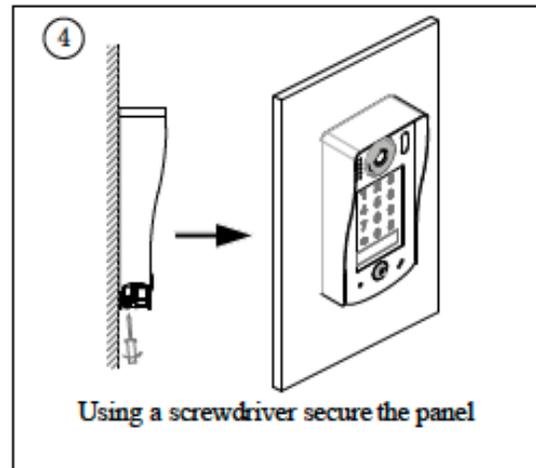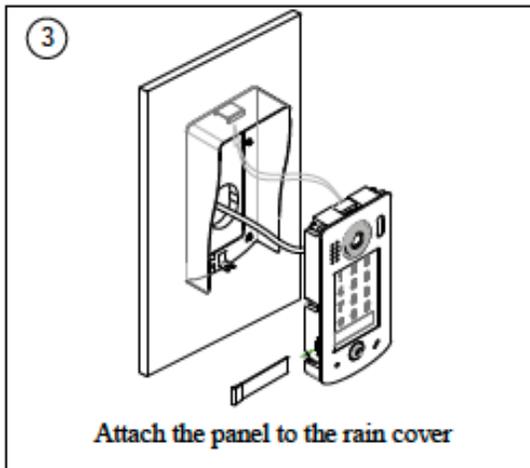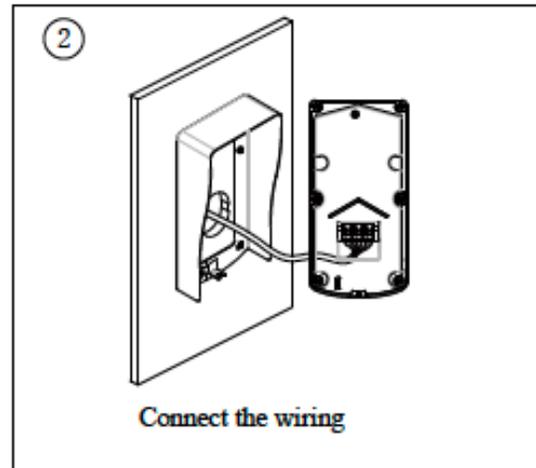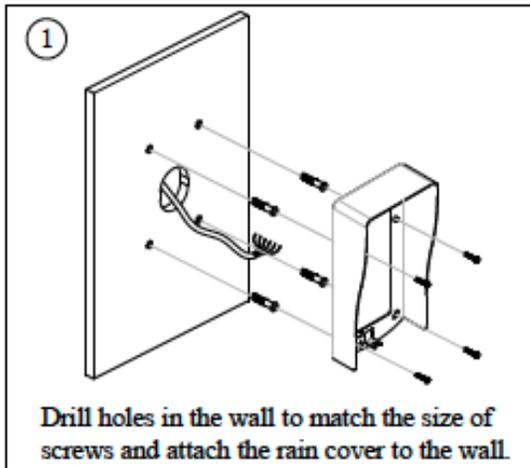
Name label placement

Use a screwdriver to remove the screw holding the panel in place. Slide out the name label as shown.
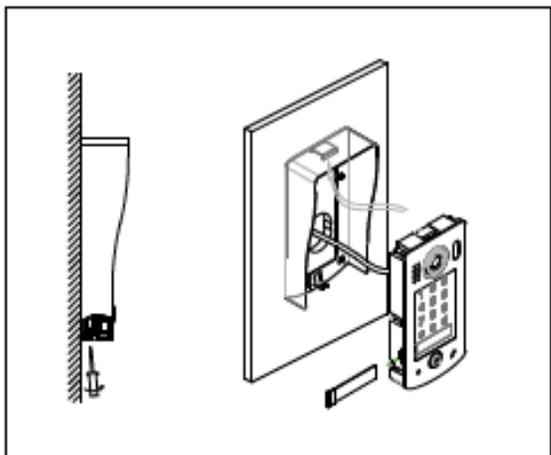
5] SYSTEM WIRING AND CONNECTIONS

Single door station system wiring
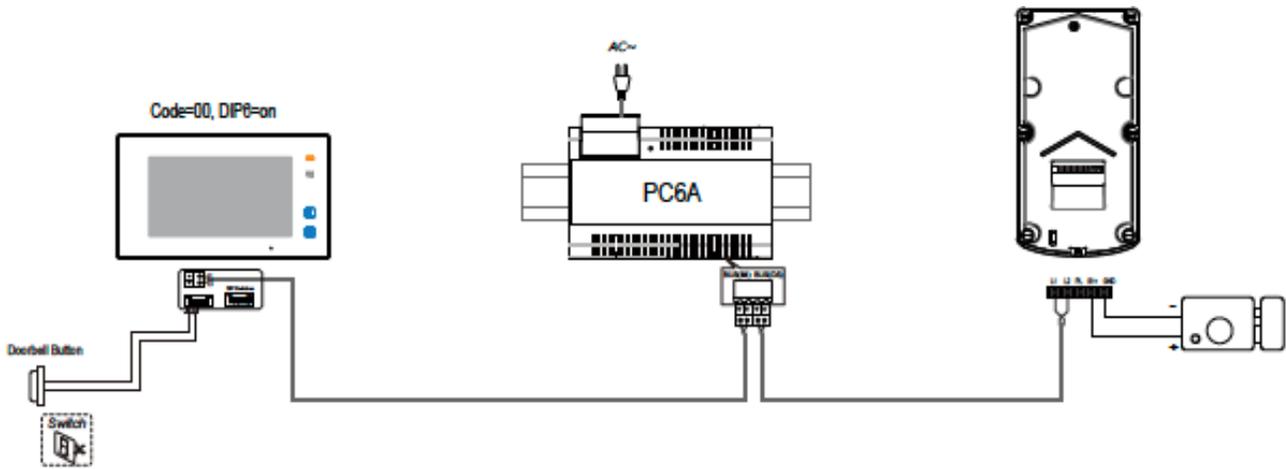
Electric lock connections

Door lock controlled with internal power

Notes:

1. This mode only supports Fail Secure (power on to unlock) Strikes
2. The door lock is limited to 12V, and holding current must be less than 250mA.
3. The door lock control is not timed from Exit Button (EB).
4. The **Unlock Mode** monitor parameter must be set to 0 (by default).

Jumper position in 2-3
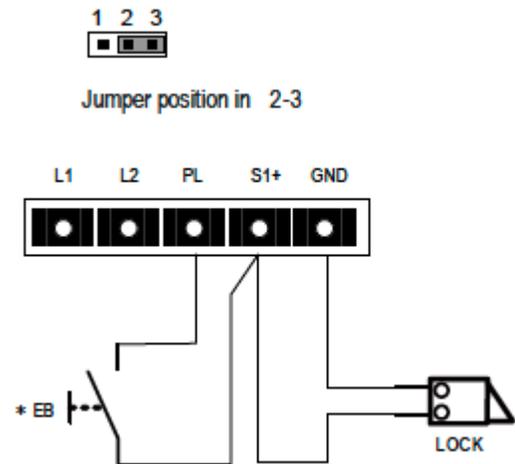
Door lock controlled with dry contact

Notes:
1. An external power supply must be used according to the lock power requirements.
2. The internal relay contact is restricted to AC or DC Max 24V/1A
3. Remove jumper before connecting.
4. Setup the monitor's **Unlock Mode** for different lock types.
- Power-on-to-unlock (fail secure): Unlock Mode = 0 (default)
- Power-off-to-unlock (fail safe): Unlock Mode = 1

Take off the Jumper
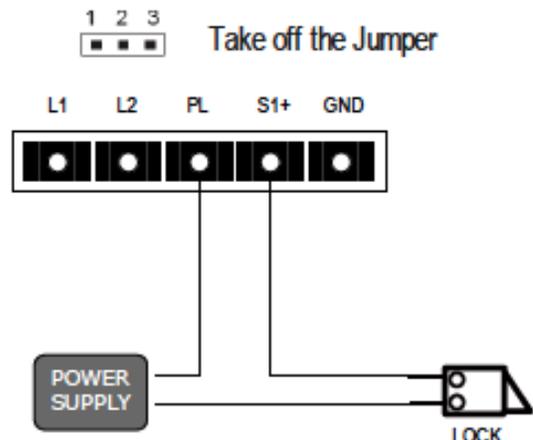
Unlock settings (set in monitor)

On the main menu page, touch [LOGO] icon to enter the **About** page.

Then, press the [⊓] **UNLOCK** button on the front panel and hold for 2 seconds.

A QWERTY keyboard will display. Refer to the following:

Note:
1. The CDV-96KP must be connected before setting it up.
2. Parameters will be saved in the CDV-96KP automatically. It only needs to be set up on one monitor.

Multi door stations system wiring (4 max*)
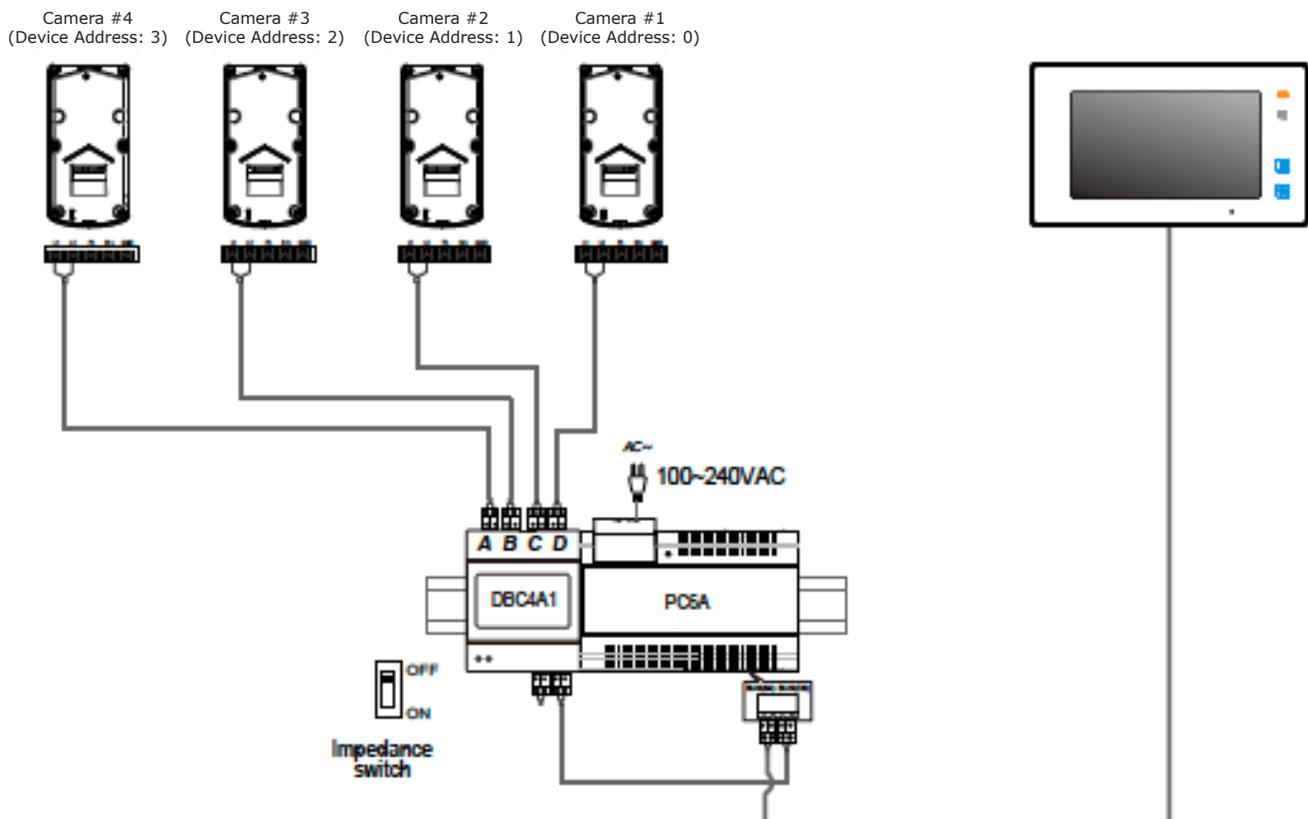
Multidoor monitors system wiring (4 max*)

Simple IN/OUT wiring
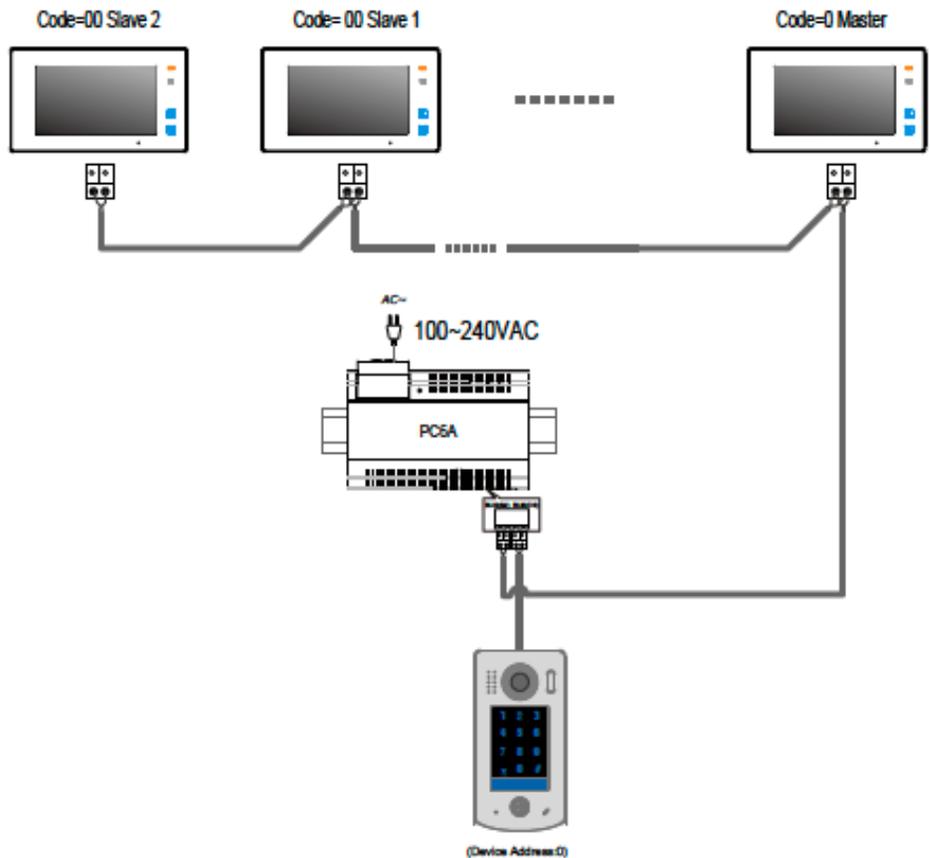
CDV-DBC4A system wiring
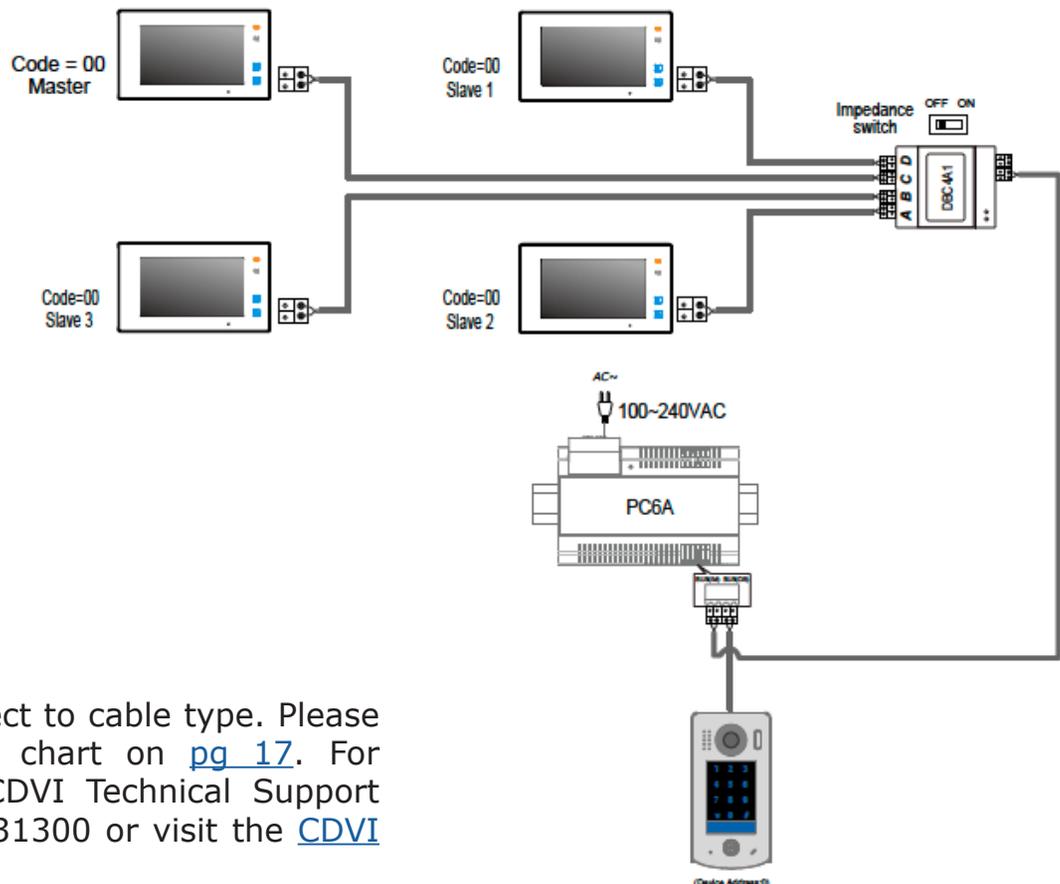
*IMPORTANT: Subject to cable type. Please see cable distance chart on pg 17. For further help, call CDVI Technical Support on +44 (0) 1628 531300 or visit the CDVI Support Centre.

6] PANVIEW & ZOOM

Note: This function requires a monitor with fish-eye function to operate. (CDV-47 or CDV-47DX)

You can adjust the image display of a fish-eye door station when answering a call by using the 5-direction pad button.

When a door station image is displayed, move to the desired position by touching ▲ ▼ ● ◀ ▶ on the screen to view the image in zoom mode.

Note: The edge of pantilt image will not be displayed.

Screen of monitor

You can zoom in or zoom out to identify anyone at the entrance.
Touch the ● icon to zoom to the center position.
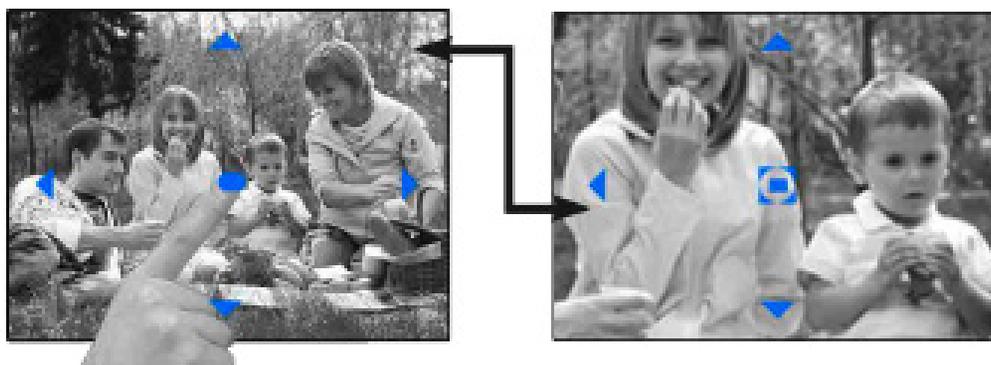
Pressing any button of the 5-direction pad will enlarge the screen to full screen mode.

Press ● to return to the full screen mode
Press ▲ ▼ ◀ ▶ to navigate and see individuals up close.

7] SETTINGS

The table below explains the settings of each function.

- Enter the master code to open the programming mode
- Enter the corresponding setting code to perform the required function.
- Enter the value required using the setting codes below.
- Press "*" to exit the setting mode.

- The default setting is * as the cancel button and # as confirm button, please refer to */# function (8) setting below for detailed information.
- Sliding a finger to touch the digital keypad may cause erroneous key selection, use a direct finger press to select the digit required.
- The "confirm" button # must be used after inputting the code number each time otherwise the operation will be cancelled automatically in 10s.

Order	Setting item	Setting range	Default value	Setting code
1	Reset all settings	–	1, 2, 3, 4	00
2	Setting the master code	1 - 12 digits Valid keys: 0-9	1234	01
3	Setting the key illumination time	10 to 99 seconds/ (00 = continually lit)	10 seconds	02
4	Setting the unlock time	1 to 99 seconds	1 second	03
5	Setting the unlock mode	0 = NO / 1 = NC	NO	04
6	Operation tone settings	0 = on / 1 = off	on	05
7	Reset code settings	–	1, 2, 3, 4	06
8	* & # function settings	0 = Normal / 1 = Reverse	Normal	07
9	Language	Valid keys: 0-9	Enable	08
10	Voice Volume	Valid keys: 0-9	5	09
11	MIC Volume Adjust (microphone)	Valid keys: 0-9	7	10
12	SPK Volume Adjust	Valid keys: 0-9	4	11
13	Device Address	Valid keys: 0-3	0	12
14	Night Light Level	Valid keys: 0-5	4	13
15	Reserved *(not used)*	Reserved	Reserved	14-17
16	Temporary code (single use only) Password for relay 1	1-12 digits Valid keys: 0-9	-	18
17	Temporary code (single use only) Password for relay 2	1-12 digits Valid keys: 0-9	-	19
18	Setting the code for user group 1	1-12 digits Valid keys: 0-9	-	20-59
19	Setting the code for user group 2	1-12 digits Valid keys: 0-9	-	60-99
20	Work Mode	0: Apartment / 1: Villa	1 (villa)	100
21	Call Address	Valid keys: 0-9	Villa: 00,16 Apartment: 00-31	101
22	Display Scene	Valid keys: 0-1	0	102
23	TS_Sensitivity (Touch Screen)	Valid keys: 0-5	3	103

CDV-96KP
2EASY 2-wire Video Door Station with Keypad
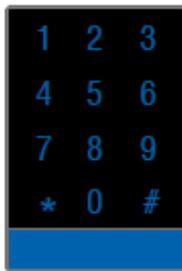
Each operation is indicated by the keys and nameplate lighting up, as well as the buzzer sounding.

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator will light up (blue-white) and beep, notifying that you entered the settings mode

1. Reset all settings	2. Setting master code (Default: 1234)	3. Setting key illumination time (Default: 10s)	4. Setting unlock time (Default: 1s)
Enter the setting code 00+#	Enter the setting code 01+#	Enter the setting code 02+#	Enter the setting code 03+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter the mastercode 1234+#	Enter new master code (ex.) 4321+#	Enter the code req (ex.10) 10+#	Enter the code req (ex.10) 09+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator
(The colour of standby) / Beep, Beep+

- All settings will restore to their default value. - With power on and the reset activated, the key illumination will blink and the touching will not operate, once complete the key illumination will stop flashing and a long beep will be emitted.	The master code can be 1~12 digits in length. The same code cannot be set for both the user code and the master code. It is reccoommended that the master code is changed from the default code.	- Key illumination time set to 00 = constantly lit when power is on. - Key illumination time set to 10~99 = lights up for 10~99 seconds. Switches off in standby mode. Touch any key to illuminate. This activation only turns on the keypad.	The unlock time can be set by both monitor and door station, the valid value is always the time last set either at the door station or monitor.

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator (blue-white) --> Beep+, Beep

5. Setting the unlock mode (Default: 0 opened)	6. Setting operation tone (Default: ON)	7. Reset code setting	8. *&# function setting (Default: normal)
Enter the setting code 04+#	Enter the setting code 05+#	Enter the setting code 06+#	Enter the setting code 07+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter the code req. (ex.: 1) range: 0=NO / 1=NC 1+#	Enter code req. (ex.: 1) range: 0=on / 1=off 1+#	Enter the code 1234+#	Enter code req (ex.1) Range: 0=normal / 1=reverse 1+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator

(The colour of standby)   Beep, Beep+

The unlock mode can be set by both monitor and door station, and the valid value will always be the last value set.	• When the operation tone is set to 0, pressing the digital keypad will issue a beep. • When the operation tone is set to 1, pressing the digital keypad will flash one time.	• Cancel all passwords except the master code • Restore the master code to default value (1,2,3,4)	• When set to 0, press the * button to cancel the input and press the # button to confirm the input. • When set to 1, press the # button to cancel the input and press the * button to confirm the input.

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator (blue-white) --> Beep+, Beep

9. Language (Default: 1d)	10. Voice volume (Default: 5)	11. MIC volume adjust setting (Default: 7)	12. SPK volume adjust setting (Default: 4)
Enter the setting code 08+#	Enter the setting code 09+#	Enter the setting code 10+#	Enter the setting code 11+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter code req. (ex.: 1) Range: 0-9 1+#	Enter code req. (ex.: 3) Range: 0-9 3+#	Enter code req. (ex.: 5) Range: 0-9 5+#	Enter code req (ex.5) Range: 0-9 1+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator

(The colour of standby) --> Beep, Beep+

- Unlock via pin (password) is still available even when a call is in progress
- When in talking mode, enter the Master code (the LED turns white) to activate the volume adjusting function:
  - MIC adjustment: 1 (up), 4 (down);
  - Speaker adjustment: 3 (up), 6 (down).

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator (blue-white) --> Beep+, Beep

13. Device address setting (Default: 0)	14. Night light level setting (Default: 4)
Enter the setting code 12+#	Enter the setting code 13+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter code req. (ex.: 1) Range: 0-2 1+#	Enter code req. (ex.: 3) range: 0-5 3+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator

(The colour of standby)   Beep, Beep+

Device address Settings: 0 (device address:0), 1 (device address:1), 2 (device address:2), 3 (device address:3).	• Night Light Level: 0~5. • The higher the number, the brighter the night lights.

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator (blue-white) --> Beep+, Beep

15. Temporary code (single use only) Password for relay 1	16. Temporary code (single use only) Password for relay 2	17. Setting the code for user group 1 Locations 20 to 59	18. Setting the code for user group 2 Locations 60 to 99
Enter the setting code 18+#	Enter the setting code 19+#	Enter the setting code 20+#	Enter the setting code 60+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter code req. (ex.: 1006) 1-12 digits 1006+#	Enter code req. (ex.: 2011) 1-12 digits 2011+#	Enter code req. (ex.: 2021) 1-12 digits 2021+#	Enter code req (ex.2020) 1-12 digits 201+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator

(The colour of standby) / Beep, Beep+

- When the correct temporary password has been used to release the door the system will clear the temporary password after 60 seconds. The password is still valid for 60 seconds after entering the correct temporary password
- Temporary 1 is used to release the first lock and temporary 2 is used to release the second lock (the second lock requires external device, CDV-RLC, to support this function).
- If the password length exceeds 12 digits, the system will emit 4 beeps eg. and the digits entered before will be cleared at the same time.
- The temporary code can not be set the same as the master code and user code.

- The user code group 1 is used to release the first lock and the user code group 2 is used to release the second lock (the second lock requires external device CDV-RLC to support this function).
- If the password length exceeds 12 digits, the system will emit 4 beeps eg. "beep, beep, beep, beep", and the digits you input before will be cleared at the same time.
- The user code can not be set the same as the master code and temporary code.

Enter the master code (Default: [**1 2 3 4**] + [#])	The colour of key indicator (blue-white) --> Beep+, Beep

19. Work mode setting (Default: 1/villa)	20. Call address setting (Default: villa-00,16 / apartment-00,31)	21. Display scene setting (Default: 0)	22. TS sensitivity (Default: 3)
Enter the setting code 100+#	Enter the setting code 101+#	Enter the setting code 102+#	Enter the setting code 103+#
Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep	Colour of key indicator (green) --> Beep+, Beep
Enter code req.(ex.: 1) Range: 0 (apartment) / 1 (villa) 0+#	Enter code req.(ex.: 1) Range: valid keys: 0-9 0+#	Enter code req.(ex.: 1) Range: 0 (apartment) / 1 (villa) 0+#	Enter code req.(ex.: 1) Range: valid keys: 0-9 0+#
Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+	Colour of key indicator (green --> blue-white) --> Beep+

- When the "* cancel" key is pressed, the indicator will show the standby color, the buzzer beeps, and the system will exit the out of programming mode.
- When there isn't any operation within 10s, the indicator will show the standby color, the buzzer beeps, and the system will exit the programming mode.
- When a setting input fails, the color of key indicator will turn red and the buzzer will beep.

The colour key indicator

(The colour of standby) Beep, Beep+

| Work mode setting:

0 = apartment (multiway)
1 = villa (House) | • When the work mode is villa, the call address is 00 or 16.
• When the work mode is apartment, the range of call addresses is 00 to 31 | • Scene 0:
standby (blue)
calling (blue blinks rapidly)
talking (blue blinks slowly)
unlock (green).
• Scene 1:
standby (green)
calling (green blinks rapidly)
talking (green blinks slowly)
unlock (blue).
• Scene 2:
standby (blue)
calling (yellow)
talking (red)
unlock (green). | TS = Touch screen |

8] UNLOCK OPERATIONS

Unlocking by user code

When the registered user code has been entered using the keypad (1~12 digits), the LED background indicator lights up, the buzzer sounds and the electric door lock is unlocked (note; that you should press "#" button (if "#" button is set as the confirm button) after entering the unlock code.

- The time interval during which the buttons must be pressed is aproximately 10 seconds. If the time interval exceeds approximately 10 seconds, the input value will be cleared.
- If you make a mistake when inputting the user code press the «cancel» button '*' and input user code again
- The keypad will be locked and disabled for 60 seconds if an incorrect password is entered 10 times. During this time the buzzer will sound continuously.

1. During calling,pressing "cancel" button '*' will cancel the call.
2. If the incorrect password is entered, you will hear 3 beeps.

9] PRODUCT SPECIFICATIONS

Feature	Description
Power Supply	24 Vdc
Power Consumption	Standby: 15mA, Working: 105mA
Camera	Color CMOS, 2.0 mega pixel
Lock Time	1-99s
Lock Power Supply	12 Vdc, 280mA (internal Power)
Number of Relay Circuits	2 (the second lock requires external device support)
Operating Temperature	-15°C - +55°C
Dimensions	182(H) x 93(W) x 44(D) mm
IP Rating	IP54

10] CABLE REQUIREMENTS

The maximum distance of the wiring is limited in the 2EASY system. Using different cables may also affect the maximum distance which the system can reach.

Two to four monitors from outputs A, B, C & D of DBC4A
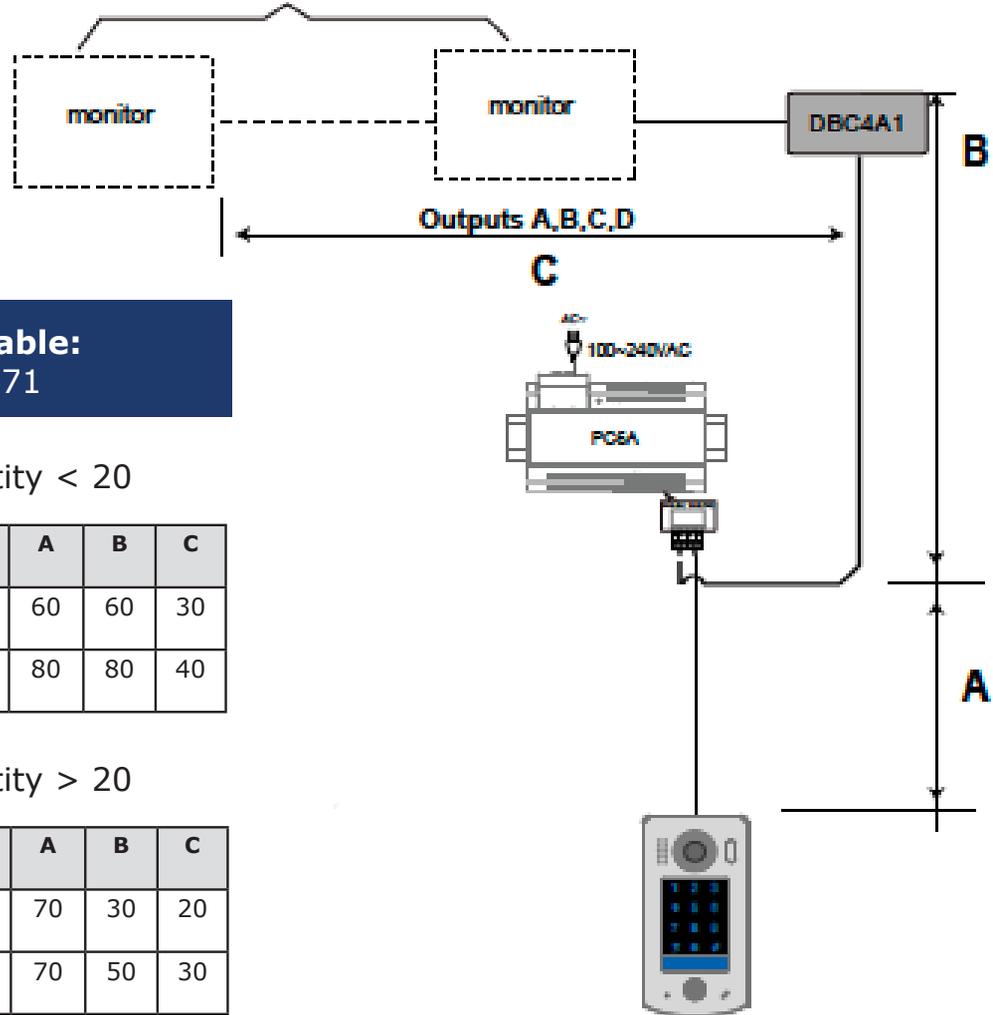
Recommended cable:
16AWG, Belden 8471

When monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75mm^2	60	60	30
Twisted cable 2x1mm^2	80	80	40

When monitor quantity > 20

Cable Usage	A	B	C
Twisted cable 2x1mm^2	70	30	20
Twisted cable 2x1.5mm^2	70	50	30

11] PRECAUTIONS

• Please clean the unit with soft cotton cloth, don't use any wet wipes cloth or chemical cleaning agent. If necessary, use a little pure water or diluted soapy water to clean the dust.

• The unit is weather resistant. However do not spray high pressure water directly onto the keypad. Excessive moisture may cause problems with the unit.

• You must use the correct power adapter which is either supplied or approved by the manufacturer

• Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.

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*CDV-ENG-611KP-V2*
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