

## LGWT434 Walk Test Instrument Specification.

RF input	434.525Mhz 10m/w
RF output	434.525Mhz 10m/w
Antenna connection	M4 Stud
Antenna	1/4 wave included
RF range	Up to 500m line of sight
Encoding	Manchester with Rolling code.
LCD	2 rows of 16 characters with back light.
Charge voltage	12volts DC
Current consumption	200m/a
Enclosure	ABS L190 W105 H85mm

## Luminite Genesis product range

PIR's	LGWP/15/40/HC/VC.
Masthead/Repeater	LGMT434
Masthead Relay Unit	LGMRU4x4
Relay Expansion Module	LGREM4x4
Walk Test Instrument	LGWT434
16 way relay unit	LGRU16
Relay module	LGRM8
16 way DM interface unit	LGDM16
Optional antenna	AE434
Transmitter module	LGTX434

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# ***Walk Test Instrument Handbook***

**Type: LGWT434**

*Issue 3.*

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## PRE-INSTALLATION NOTES

### Unpacking.

On receipt, inspect the package and contents for signs of damage. If damage has occurred, advise the carrier and/or suppliers immediately. Inspect the contents to confirm that all items are present and undamaged. If any items are missing or damaged, contact the supplier immediately. It is advisable that the original carton is retained as this forms the safest transport container in the event that a unit has to be returned for any reason.

### Servicing.

This unit should not require general servicing. Any repair work should only be undertaken by Luminite Electronics Ltd.

### Moisture.

Do not expose the internal electronics of this unit to moisture i.e. take care during installation not to allow rain or damp into the product. This product is NOT water resistant.

### Box Contents.

1 x GENESIS Walk Test Instrument LGWT434  
1 x cigarette lighter plug & lead to 1.3mm DC plug

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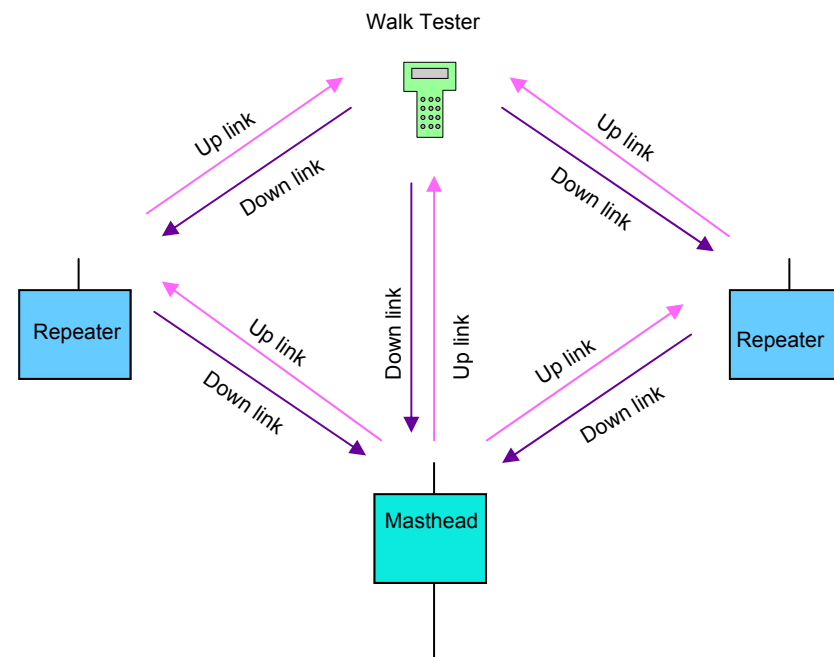
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## WALK TEST MECHANISM.

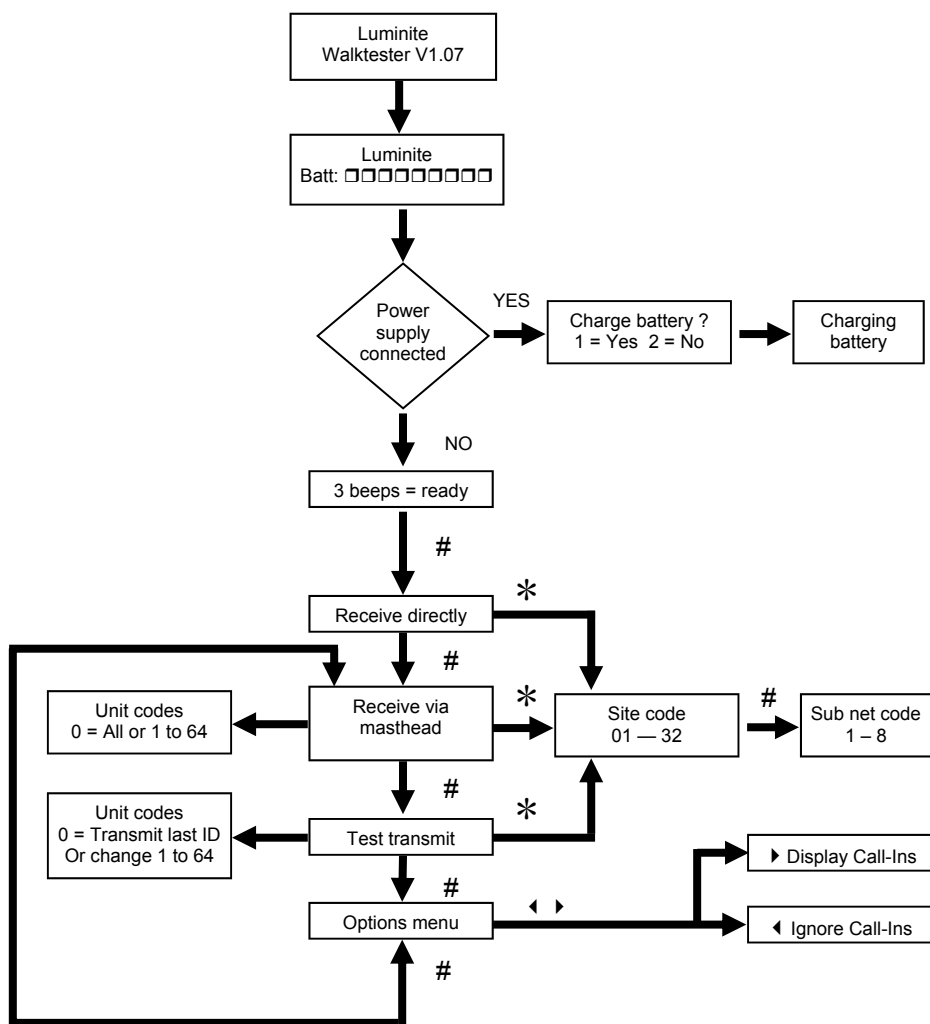
The Walk Test Instrument does not take any notice of Sub Net codes when in receive mode and will receive from anywhere on the site either directly from the Masthead or via Repeaters.

All these products will be set to the same Site Code but the repeaters will have different sub net codes.



With switch 12 down the Masthead will be in permanent WALK TEST Mode. In other words, when an alarm event is received it will be re-transmitted back out so that it can be received on a WALK TEST Instrument or PAGER.

The masthead should not be left in walk test mode as this uses up more air time and on a site with lots of PIR's could cause collisions and possible missed call ins.



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## PRODUCT DESCRIPTION.

The Genesis Walk Test Instrument is designed to work solely with the Genesis wireless PIR system and will not work with any other Luminite products.

The walk test instrument is a Transceiver and has the ability to receive signals from the PIR detectors or Masthead as well as being able to transmit as if it were a PIR detector. This ability to mimic a PIR is used to check proposed PIR positions before installation begins.

An LCD shows PIR information such as ID number, Lens type, Pulse count setting, signal strength and battery condition. In addition, the display can also show an alpha numeric name for each PIR as well as the ID number which makes identification easier.

The key pad is used to set the Site code and Sub Net codes for the site under test. All Unit codes can be displayed or filtered to show only the PIR under test. This is especially useful on a busy site.

The product is powered by a built in NMhi rechargeable battery which can be fast charged from a car cigarette lighter.

## CHARGING.

Switch OFF the walk tester. Plug the DC plug into a vehicles cigarette lighter socket and the other end into the walk tester. Switch ON and the display will show first LUMINITE WALK TESTER V1.06 followed by Luminite Batt: and the black bars show the state of charge. You will then be prompted with Charge Battery? 1=yes 2= no. Press Yes. Charging takes about 3 1/2 hours from a fully discharged state. Charging stops automatically. U= the battery voltage which will be about 4.4V when finished.



Start up screen showing battery charge state.

## SWITCH ON.

When the power switch is turned on, the display will show first LUMINITE WALK TESTER V1.02 followed by Luminite Batt: and the black bars show the state of charge. Now press the # key to move on to the menu. # = select. Press # to move through the menu.

## THE MENU.

Receive directly from PIR  
Receive via masthead  
Test transmit  
Options (setup)

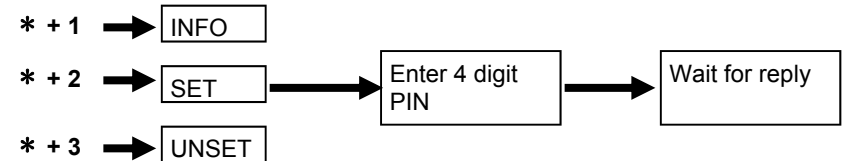
## SPECIAL FEATURES.

### SET UN-SET.

The Genesis system can be used to wirelessly SET and UN-SET the CCTV system. To achieve this the masthead must be fitted with the SET UN-SET module which provides the volt free relay contacts. The transmitter is usually a hand held transceiver or a fixed station transceiver. Contact us for more details.

The walk tester can be used to SET and UN-SET the CCTV system instead of the dedicated transceivers as follows.

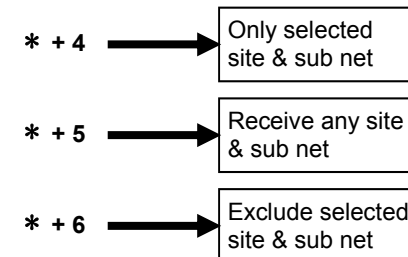
- Put the Mastheads relay module into LEARN mode and then decide on a four digit PIN code. With the walk tester proceed as follows. Use the \* key as a SHIFT key, hold down \* and press 1/2/3.



See specific operating instructions for the SET UN-SET module for full details.

### FINDING OTHER GENESIS SYSTEMS WITHIN RADIO RANGE.

When choosing a site code it is sometimes worth while searching for nearby Genesis systems that are in radio range so that those site codes can be rejected. To do this proceed as follows.



## TEST TRANSMIT (Call-In).

Use this feature to test a proposed position for a PIR detector to ascertain the likely signal strength prior to installation.

**Step 1.** Set a masthead to Walk Test Mode by switching OFF switch 12. The power must be cycled for this change to take place. (See masthead instructions.)

**Step 2.** Turn on the walk tester and press # (SELECT) four times to go to the Options menu. Press ⇒(6) to set Display Call-Ins.

Now press # (SELECT) three times to go to the transmit mode.

### Step 3.

The walk tester will immediately send a test transmission which will echo back from the masthead and display the signal strength information on the LCD. If the site or sub net code is different on the masthead, proceed as follows. Press \* (CHANGE). SITE CODE (1-32) Is displayed on the screen. Type in the new site code for the particular site and then press # (SELECT). SUB NET CODE (1-8) is now displayed. Type in the sub net code and the walk tester immediately transmits and the display switches back to the transmit mode.

NB: The walk tester will remember these settings if it is switched off. Generally only the site code has to be changed when attending different sites.

**Step 4.** Press 0 to transmit again. To change the number, just type any number from 1-64 and this will be transmitted and received back.

NB: If the display shows Time Out, check that the masthead site and sub net code are the same as the walk tester.

The display should look like this.

This example shows

Site code 1,

Sub net code 1

Unit code 5

Signal at walk tester from masthead

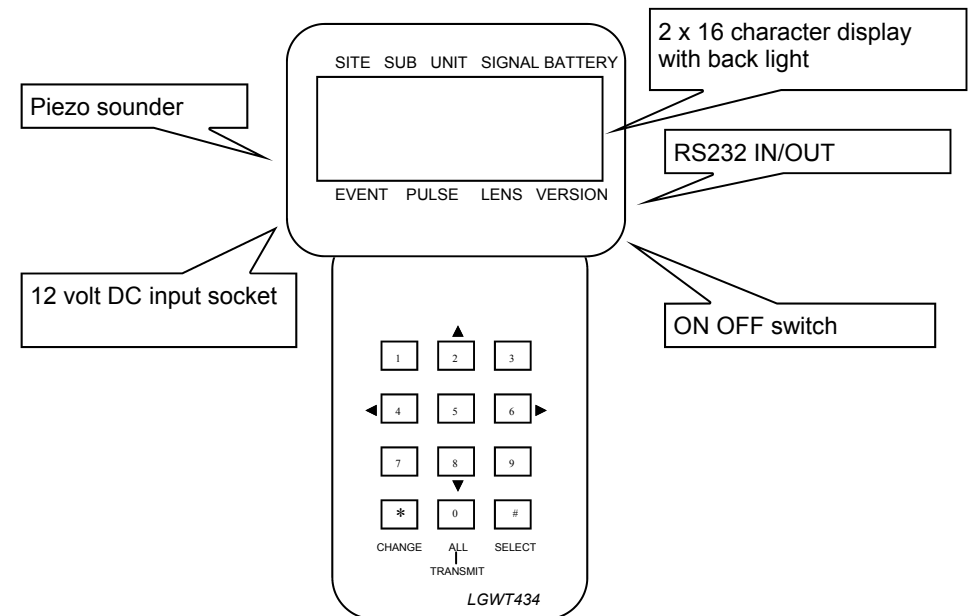
Signal at masthead from walktester

No name. Names for each unit number can be programmed at the masthead if required.

These are used by the pocket pager.

SITE	SUB	UNIT	SIGNAL	BATTERY
01	1	05	s95	sm85
***		no name	***	
EVENT	PULSE	LENS	VERSION	

## PRODUCT VIEW.



## RECEIVE DIRECTLY FROM PIR.

**Step 1.** At the start up, press # (SELECT) once to go to the receive directly mode. Now press \* (CHANGE). SITE CODE (1-32) is displayed on the screen. Type in the new site code for the particular site and then press # (SELECT). SUB NET CODE (1-8) is now displayed. This is only applicable for test transmissions. Normally this is set to 1. Type in the sub net code and then press # (SELECT). The display switches back to the receive directly state.

**Step 2.** Press 0 for ALL PIR's or type in the PIR number under test to filter out all the other PIR's on the site. This can make testing much easier, especially if the site is very active during the test.  
NB: The walk tester will remember these settings if it is switched off. Generally only the site code has to be changed when attending different sites.

The display should look like this.  
This example shows  
Site code 1,  
Sub net code 1  
and ALL unit codes  
Receiving directly from the PIR's.

SITE	SUB	UNIT	SIGNAL	BATTERY
01.1.ALL Receive directly				
EVENT	PULSE	LENS	VERSION	

**Step 3.** Walk into the PIR's field of view and the display will show the following information.  
Site code. Sub net. Unit number. Radio signal strength. Battery condition.  
Event. IE: Detection, Tamper etc. Pulse count setting. Lens type. Firmware version.

SITE	SUB	UNIT	SIGNAL	BATTERY
01	1	02	8	100%
D	1	2	v8	
EVENT	PULSE	LENS	VERSION	

This example shows Site and Sub code 1. PIR number 2. Max signal (8) and 100% battery.  
D= detection. Pulse count 1.  
Lens 2 (40x4 metre) Firmware 2.

### EVENT.

D = Detection. T = Tamper. S = Shock. C = Cloak. F = Fault.

### PULSE.

1 to 4. 1 = maximum sensitivity.

### LENS.

1 = 15 metre x 20 metre. 2 = 40 metre x 4.4 metre 3 = 12 metre 90 degree Horizontal curtain.

### VERSION.

PIR firmware version.

## RECEIVE VIA MASTHEAD.

**Step 1.** Set a masthead to Walk Test Mode by switching OFF switch 12. The power must be cycled for this change to take place. (See masthead instructions.)

**Step 2.** Turn on the walk tester and press # (SELECT) four times to go to the options mode. Press 6 to Receive Call In's. This is important otherwise the walk tester will not respond to the masthead transmission.

### Step 3.

Now press # twice to get to the Receive Via Masthead mode. Press \* (CHANGE). SITE CODE (1-32) is displayed on the screen. Type in the new site code for the particular site and then press # (SELECT). SUB NET CODE (1-8) is now displayed. This is only applicable for test transmissions. Normally this is set to 1. Type in the sub net code and then press # (SELECT). The display switches back to the receive via masthead menu.

NB: The walk tester will remember these settings if it is switched off. Generally only the site code has to be changed when attending different sites.

**Step 3.** Press 0 for ALL PIR's or type in the PIR number under test to filter out all the other PIR's site. This can make testing much easier, especially if the site is very active during the test.

SITE	SUB	UNIT	SIGNAL	BATTERY
01.1.ALL Receive Via masthead				
EVENT	PULSE	LENS	VERSION	

on the cially

The display should look like this.  
This example shows  
Site code 1,  
Sub net code 1  
and ALL unit codes  
Receiving via masthead.

SITE	SUB	UNIT	SIGNAL	BATTERY
01	1	05	7	100%
MAIN GATE				
EVENT	PULSE	LENS	VERSION	

### Step 4.

Walk into the PIR's field of view and the display

will show the signal strength from the PIR to the masthead rather than from the PIR to the walk tester. In addition, the display will also show a name for the PIR if one has been stored in the masthead. (See masthead instructions).

This example shows PIR number 5 has a signal strength of 7 and 100% battery. The maximum signal strength is 8. Anything less than 5 is poor.