

Wireless REDWALL PIR Detector  
With pre-fitted Luminate wireless transmitter and battery

## SIP-3020WFLT SIP-4010WFLT



The SIP-3020WFLT and SIP-4010WFLT are outdoor wireless detectors designed to cover a detection area of 30mx20m or 40x10m and to be used mainly where seamless integration with CCTV systems is required. These detectors are pre-fitted with a long life SAFT battery and a Luminate wireless radio-frequency (RF) transmitter.

The SIP-3020WFLT and SIP-4010WFLT feature an intelligent detection system that monitors the temperature and the illuminance of the ambient environment and automatically adjust the sensitivity. They are also equipped with anti-rotation, anti-masking functions in addition to the anti-tamper feature which provides further security.

They can be used in conjunction with the REDWALL LGMT434 (Masthead) and LGRU16 (16 Channel Relay controller) or the LGMRU4X4 (Masthead+ 4 channel outputs), to form a complete radio-linked system.

### SYSTEM CONFIGURATION



#### LGWT434

**WALK TEST INSTRUMENT**  
Receives either directly from the PIR or via the Masthead



TO DVR



**LGMT434 or LGMRU4x4 MASTHEAD RECEIVER**  
Receives data from the PIR's and communicates with the control unit

**LGRU16 CONTROL INTERFACE**  
Monitors all PIR's and passes alarms to a DVR or alarm system



### FEATURES

- Pre-fitted with SAFT long life battery
- Pre-fitted with the Luminate wireless transmitter, up to 800m transmission range (line of sight)
- Intelligent PIR Detection System including automatic sensitivity management, advanced detection algorithm and three dual pyro-elements with Double Conductive shielding
- Anti-vandalism functions including anti-masking and anti-rotation function
- Max.4m (13 ft.) installation height
- Independent sensitivity selector for near/far areas
- Detection logic selector
- Detection range selector
- Independent N.C. and N.O. ALARM output
- Adjustable alarm interval time
- BS8418 Compliant- U.K.

### OPTIONS

SIP-AT SIP Adjustment tools (includes AVF-1 Area view finder and AWT-3 Audible walk tester)  
AVF-1 Area finder  
AWT-3 Audible walk tester  
SIP-MINIHOOD Sun/Snow shield  
LGMT434T Masthead  
LGMRU 4X4 Masthead +4 channel Receiver  
LGRU16 8 channel Relay Controller

## SPECIFICATIONS

Model	SIP-3020WFLT	SIP-4010WFLT
Detection method	Passive infrared	
Coverage	30x20m (100x65ft.)	40x10m (130x33ft.) 40x4m (130x13ft.) - can be obtained by masking some detection areas of SIP-4010WFLT
Power Input	pre-fitted 3.6volt SAFT Lithium battery	
Operating voltage	2.5to10VDC	
Current draw	40 A(Standby) 5mA max.(Operating LED ON)	
Mounting height	2.3 to 4m (7.6 to 13ft.)	
Sensitivity selector	Far. SH/H/ML Near.SH/H/ML	
Range selector	Far. On/Off	
Detection logic selector	AND/OR	
Alarm output	N.C. 10VDC, 0.01A max. N.O. 10VDC, 0.01A max.	
Alarm interval period	Off/ 5,60,150 sec.	
Trouble output	N.C. 10VDC, 0.01A max.	
Tamper output	N.C. 10VDC, 0.01A max.	
Alarm period	Approx. 2 sec.	
Warm-up period	Approx.120sec.	
Operating temperature	-25 to +60°C (-13 to +140°F)	
IP rating	Main unit: IP65 Chassis: IP55	
Wireless transmission range	Up to 800m (line of sight)	
Radio frequency**	+10dB on 434.525Mhz at 10mw	
Dimensions (H x W x D)	227 x 102 x 266 mm (9.0 x 4.0 x 105 in.)-	
Weight	1.2kg (42 oz)-	
Power input	3VDC	
Current Draw	30mA	

Model	LGMT434	LGMRU4x4	LGRU16	LGWT434
Power Input	12VDC	12VDC	12VDC	12-14.4VDC
Current Draw	100mA	100mA	500mA	200mA
Antenna Connection	BNC	BNC	n/a	Screw terminal
RF Input/Output	434.525	434.525	n/a	434.525
Transmission Range	Up to 1 km	Up to 1km	n/a	500m
Alarm Inputs/Outputs	64	64	8 expandable to 16 relay outputs Global temper output Supervisory	n/a
IP Rating	66	66	n/a	n/a
Dimensions (HxWxD)	115x90x55mm	200x160x95mm	50x250x180mm	190x105x85mm

## WIRELESS RECEIVER AND OTHER ACCESSORIES

### LGMT434 MASTHEAD RECEIVER



LGMT434 Masthead Receiver forms the heart of the Luminite Genesis wireless system by receiving alarm data from up to 64 WF-434T transmitters and passing it to the LGRU16 control unit via an RS232 link. The Masthead can transmit data as well as receive it, which means it can transmit back to a walk test instrument (LGWT434) showing all received information as well as the signal strength received from each transmitter on the wireless network. In addition it can perform as a repeater for systems that require greater transmission distances.

### LGMRU4x4 MASTHEAD RECEIVER



LGMRU4x4 is an alternative option to the LGMT434 which can be connected directly to the alarm presets of a dome camera. It can also be used to connect directly to DVRs/alarm systems where a small number of outputs are required. It has 8 relay outputs which can be used as 4 alarms plus 4 tampers or alternatively as 8 alarm outputs. Expansion cards are available to increase the number of alarm outputs to a maximum of 32. The expansion card is a LGREM4x4 which provides an additional 8 outputs (maximum of 3 per LGMRU4x4).



### LGRU16 RELAY CONTROLLER

LGRU16 Relay control unit provides a physical alarm and tamper outputs from the LGMT434 or LGMRU4x4 Masthead Receiver. Between one and four LGRU16 relay units can be connected to a single Masthead Receiver to provide up to 64 alarm and tamper outputs that can be interfaced to any alarm system. The LGRU16 is provided with one LGRM8 relay module which can provide 8 alarm and 8 tamper outputs. An additional LGRM8 can be provided to increase the number to 16 alarm and 16 tamper outputs. Up to four LGRU16 control units can be connected together to provide 64 outputs if required.



### LGWT434 WALK TEST INSTRUMENT

LGWT434 Walk test instrument is a transceiver which has the ability to receive signals from the SIP-3020WFLT and SIP-4010WFLT or Masthead as well as being able to act as a transmitter. This ability to mimic a transmitter is used to check the proposed transmitter positions before installation begins. The LCD shows transmitter information such as ID number, signal strength and battery condition. 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



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