

2MP H.264 Dual Stream IP Operational PIR Camera

GIPPIR



Quick Start Guide

Please read these instructions carefully before operating the unit
and keep for further reference.

genie

1.0 Introduction.....	3
1.1 Product Features.....	3
1.2 Product Overview	3
1.3 Specification.....	4
1.4 Choosing an Installation Location	4
2.0 Detector Installation.....	5
2.1 Detector Installation.....	5
2.2 Installation Options	6
2.3 Camera Module Connection	6
2.4 Detector Connection	7
2.5 Setting up the Detector	7
3.0 Potentiometers Adjustment	8
4.0 Testing The Detector.....	9

1.0 Introduction

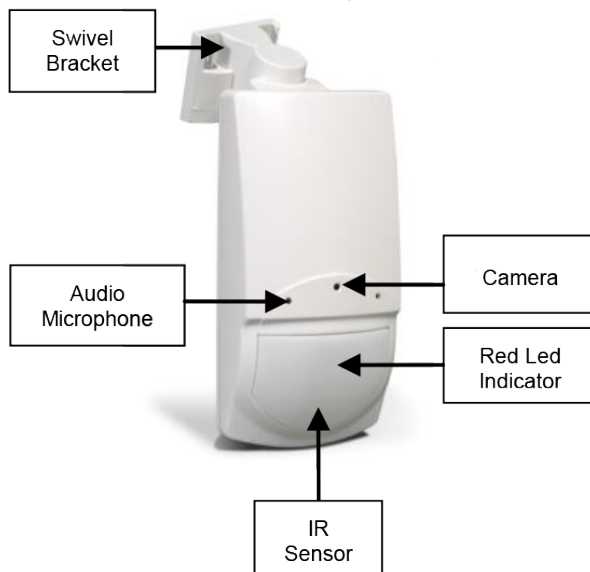
Please read this instruction carefully before operating the product and keep it for further reference. All examples and pictures used here are for reference only. The contents of this manual are subject to change without notice.

The Genie GIPPIR is a fully operational grade 2 PIR with a 2MP full HD H.264 IP camera pre installed. The camera is supplied with a 3.7mm conical pinhole lens and can be powered with either a DC12V or a PoE (802.3af) switch / injector.

1.1 Product Features

- Full HD (1080p) IP Network board
- 1/ 2.8" 2MP progressive CMOS sensor
- H.264 / MJPEG dual streaming
- Minimum illumination: 0.1 Lux (Colour)
- WDR, D&N, AGC, BLC, HLC, DNR, Sens-Up
- 32×32 one IP board (Video only)
- Motion detection / privacy zone
- Optional 32×32 sub board for audio & alarm
- DC12V, external PoE Quad pyro sensor
- Bi-directional temperature compensation
- Pet immunity up to 25Kg. Pet active below 1M
- Tamper switch
- NDAA compliant

1.2 Product Overview



1.3 Specification

Camera	Image Sensor	1/2.8" Progressive Scan CMOS Sensor (Sony IMX307)
	Effective Pixels	1920 (H) x 1080 (V) Approx. 2.13M pixels
	Minimum Illumination	Colour Mode: 0.1 Lux, B&W Mode: 0.01 Lux
	Lens Type	3.7mm conical pinhole lens, M12 board lens (2.8mm, 3.6mm, 4.3mm, 6mm, 8mm)
	Shutter Speed	1/25 ~ 30,000sec
	Motion Detection	Yes (4 areas)
	Privacy Zone	Yes (4 areas)
	Image Enhancement	AE, AWB, WDR, DNR, AGC, Brightness, Contrast, Stabilisation, Sharpness, Day & Night, Sens-Up, BLC, HLC
Video	Video Compression	H.264 (Baseline/Main Profile), MJPEG
	Streaming (Dual)	Primary (H.264) : Max. 1920 x 1080, Secondary (H.264 or MJPEG) : Max. 800 x 600
	Resolution and Frame Rate	Primary (H.264) : 25fps @ 1080p, 720p, 800 x 600, 640 x 480, 320 x 240 Secondary (H.264 or MJPEG) : 25fps @ 800 x 600, 640 x 480, 320 x 240
	Bit Rate / Control	512Kbps ~ 10Mbps / CBR, VBR
Sub Board (Option)	Audio	G.711 Compression, 2 way audio (MIC In / Spk Out, line level)
	Alarm	DI/DO (Alarm In, Relay Out)
Interface	Ethernet	10/100-Base-T Ethernet (Auto-Sensing)
Network	Support Protocol	TCP/IP, UDP, IPv4, HTTP, DNS, NTP, IGMP, RTP/RTSP, DHCP, WS-Discovery, Onvif Profile S compatible
	3rd Party Integration	Onvif Profile S 2.4, CGI
	Login Authority	Administrator, Operator, Viewer
	Maximum Streaming User	4
Others	Operating Temperature	-10°C ~ +50°C
	Operating Humidity	0~80% (Non-condensing)
	Power Source	DC12V/1.6W

1.4 Choosing an Installation Location

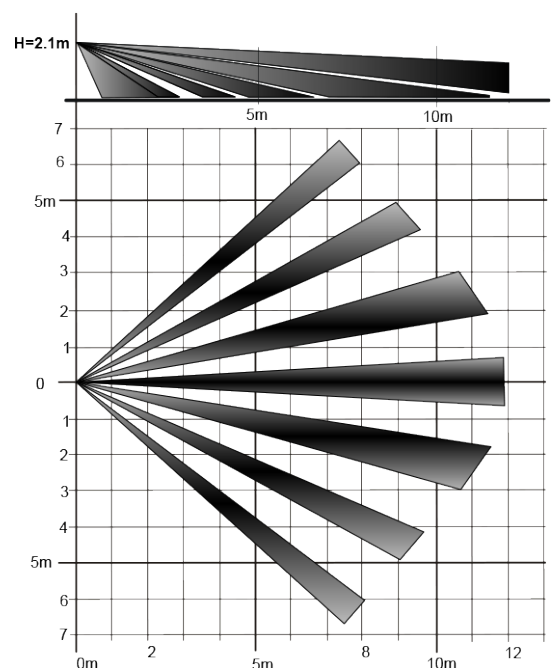
Choose a location most likely to intercept an intruder. (Our recommendation is a corner installation). See detection pattern on the right.

The quad-element high quality sensor detects motion crossing the beam; it is slightly less sensitive detecting motion toward the detector.

The GIPPIR performs best when provided with a constant and stable environment and background.

Avoid the following locations:

- Facing direct sunlight.
- Facing areas that may change temperature rapidly.
- Areas where there are air ducts or substantial airflows.

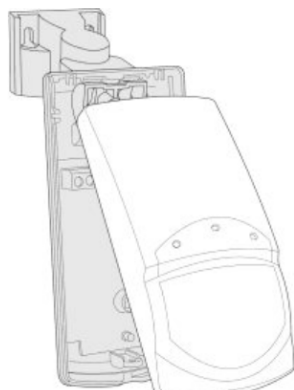


2.0 Detector Installation

2.1 Detector Installation

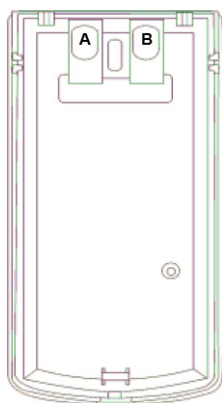
The detector can either be wall, corner or ceiling mounted by using a special bracket base for the bracket mounting.

1. To remove the front cover, unscrew the holding screw and gently raise the front cover.



Unscrew the holding screw and open base

2. Insert wire through the bracket and holes "A" and "B".



Wire Size Requirements

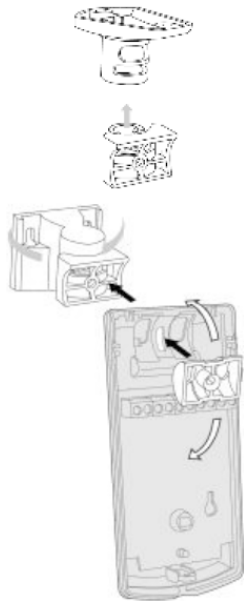
Use #22 AWG (0.5 mm) or wires with a larger diameter. Use the following table to determine the required wire gauge (diameter) depending on the length of wire between the detector and the control panel.

Wire Length	m	200	300	400	800
Wire Diameter	mm	0.5	0.75	1.0	1.5
Wire Length	ft.	800	1200	2000	3400
Wire Gauge	#	22	20	18	16

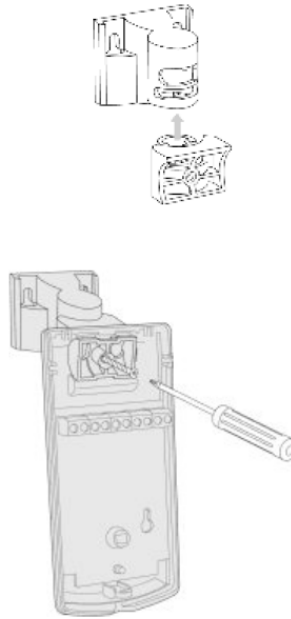
3. Mount the bracket base to the wall or to the ceiling with the suitable adaptor. Hold the detector base in front of the protected area and tighten the bracket screw.
4. Insert the wires through the bracket and connect the wires to the terminal block.
5. Replace the cover by inserting it back in the appropriate closing pins and screw in the holding screw.

2.2 Installation Options

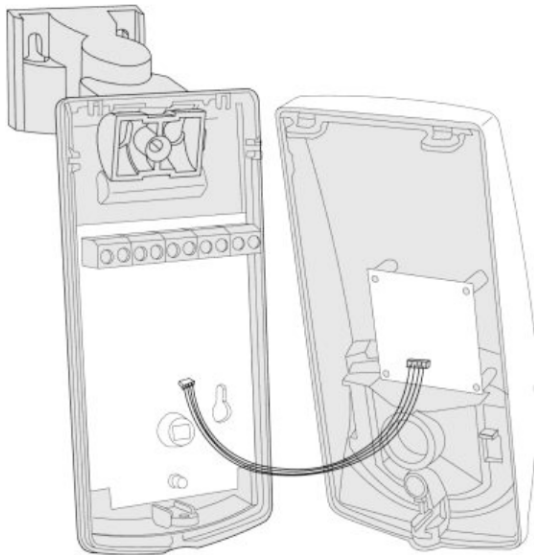
Ceiling Bracket Base



Wall Bracket Base



2.3 Camera Module Connection



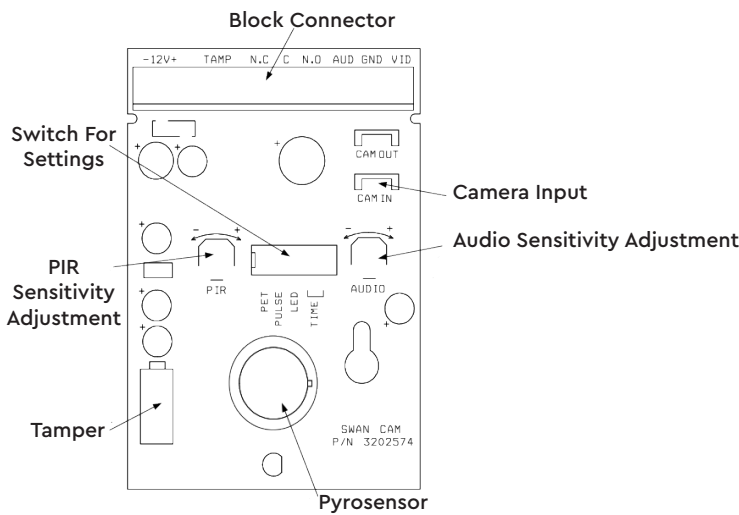
Connect the camera module to the main PCB.

2.4 Detector Connection

Please refer to "Wire Size Requirements" in 2.1 Detector Installation before connecting detector to achieve optimal operation.

1		-12V+	Terminal 1 Marked " - " (GND)	Connect to the negative supply voltage output
2		-12V+	Terminal 2 Marked " + " (+12V)	Connect to a positive supply voltage output of 12VDC only source
3		TAMP	Terminals 3 & 4 Marked " TAMP "	Connect these terminals to a 24-hour normally closed zone. If the front cover of the detector is opened, an immediate alarm signal will be sent to the control unit.
4		TAMP		
5		N.C.	Terminals 5,6 & 7 Marked " N.C, C & N.O "	These are the output relay contacts of the detector. Connect to a normally closed or normally opened zone in the control panel
6		C		
7		N.O.		
8		AUD	Terminals 8 & 9 Marked " AUD " & " GND "	This is the audio signal output. These two terminals should be connected to an audio input.
9		GND	Terminals 9 & 10 Marked " GND " & " VID "	This is the video signal output. These two terminals should be connected to video input.
10		VID		

2.5 Setting up the Detector



	<p>SWITCH 1 - PET IMMUNITY SETTING Use for setting the pet immune function - up to 15kg or 25kg, depending on the pet size. Position Up (ON) – Immunity up to 15kgs Position Down (OFF) – Immunity up to 25kgs</p>															
	<p>SWITCH 2 – PIR PULSE COUNT ADJUSTMENT Use for setting the count function to provide PIR sensitivity control according to the environment. Position Up (ON) – High Sensitivity for stable environment Position Down (OFF) – Low Sensitivity for harsh environment</p>															
	<p>SWITCH 3 – LED SETTINGS (this setting does not affect detector operation) Use for setting LED Enable / Disable Position Up (ON) – LED Enable (activated by motion detection) Position Down (OFF) – LED Disable</p>															
	<p>SWITCH 4 & 5 – N.O RELAY – TIME DELAY SETTINGS Use for setting the time delay of the N.O relay terminals 6 & 7 There are 4 options:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>SWITCH 4</th> <th>SWITCH 5</th> <th>N.O RELAY TIME RELAY</th> </tr> </thead> <tbody> <tr> <td>ON</td> <td>ON</td> <td>2 Sec. Contact Closed</td> </tr> <tr> <td>ON</td> <td>OFF</td> <td>15 Sec. Contact Closed</td> </tr> <tr> <td>OFF</td> <td>ON</td> <td>60 Sec. Contact Closed</td> </tr> <tr> <td>OFF</td> <td>OFF</td> <td>240 Sec. Contact Closed</td> </tr> </tbody> </table>	SWITCH 4	SWITCH 5	N.O RELAY TIME RELAY	ON	ON	2 Sec. Contact Closed	ON	OFF	15 Sec. Contact Closed	OFF	ON	60 Sec. Contact Closed	OFF	OFF	240 Sec. Contact Closed
	SWITCH 4	SWITCH 5	N.O RELAY TIME RELAY													
ON	ON	2 Sec. Contact Closed														
ON	OFF	15 Sec. Contact Closed														
OFF	ON	60 Sec. Contact Closed														
OFF	OFF	240 Sec. Contact Closed														
<p>The N.C Relay (Terminal 5 & 6) opens for 1.8 to 2 seconds when an alarm occurs.</p>																

3.0 Potentiometers Adjustment

There two potentiometers located on the PCB device to set the optimal sensitivity of the detection and the audio.

PIR Sensitivity Adjustment

- Use the Potentiometer marked "PIR" to adjust the detection sensitivity between 15% and 100% according to walk test in the protected area. (Factory setting to 57%).
- Rotate the potentiometer clockwise to increase range, counter-clockwise to decrease range.

Audio Sensitivity Adjustment

- Use the potentiometer "AUDIO" to adjust the audio sensitivity.
- Rotate the potentiometer clockwise to increase sensitivity.
- Rotate the potentiometer counter-clockwise to decrease sensitivity.

4.0 Testing The Detector

Wait one minute after applying power and warm up time.
Conduct testing with the protected area cleared of all people.

Walk Test

1. Remove front cover.
2. Set LED to ON position.
3. Reassemble the front cover.
4. Start walking slowly across the detection zone.
5. Observe that the LED lights whenever motion is detected.
6. Allow 5 sec. between each test for the detector to stabilise.
7. After the walk test is completed, you can set the LED to OFF position.

NOTE:

Walk tests should be conducted, at least once a year, to verify proper operation of the detector.

Sales +44(0)1707 330541

Enquiries sales@genieproducts.co.uk

Website www.genieproducts.co.uk

genie