



SH-PIRCAM-8F/9F

TWO WAY WIRELESS
INDOOR PIRCAM DETECTOR



INSTRUCTION MANUAL
P/N 7105070_A

PRODUCT FEATURES

The SH-PIRCAM Indoor is a two way wireless motion detector with a built-in CMOS high quality color camera that provides the perfect solution for visual alarm verification of your premises.

When your control panel is armed and the PIR sensor detects movement, the detector sends an alert and transmit picture to the CMS or to your mobile phone.

- Freewave2 Advanced & Secured RF protocol
- GFSK with 5 frequencies & LBT
- Pet immune passive IR detection element
- Low current Technology
- Tamper Open/Close transmission
- Unique ID number
- 110 degrees lens- mounted in factory
- CMOS camera with CIF resolution
- 2 DSP microcontrollers for image processing
- White LED flashes for operating in dark conditions.
- Red and Green indicators LEDs

DETECTOR OPENING

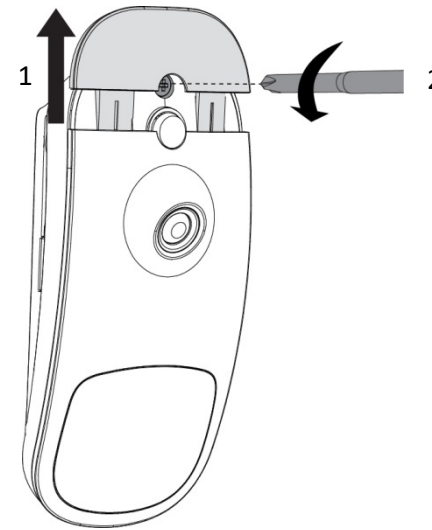


Figure 1

BRACKET REMOVAL

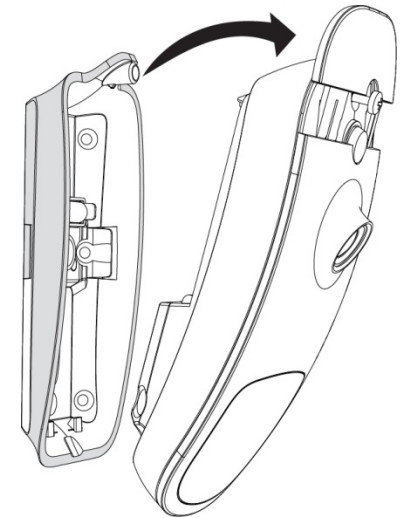


Figure 2

BATTERY INSERTION

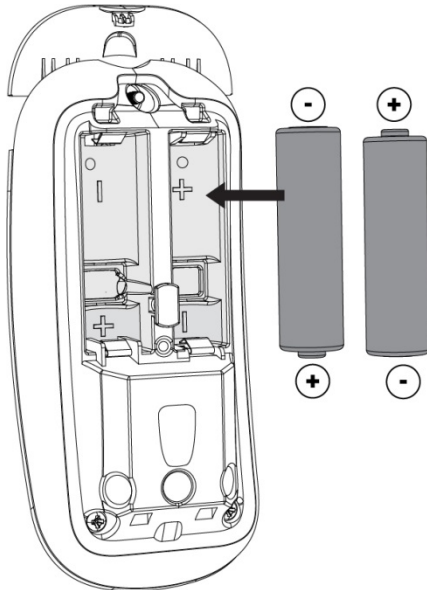


Figure 3

The battery can be replaced by the user
Battery type: 2 Energizer L91 Lithium Batteries 1.5V Type AA

DETECTOR MOUNTING

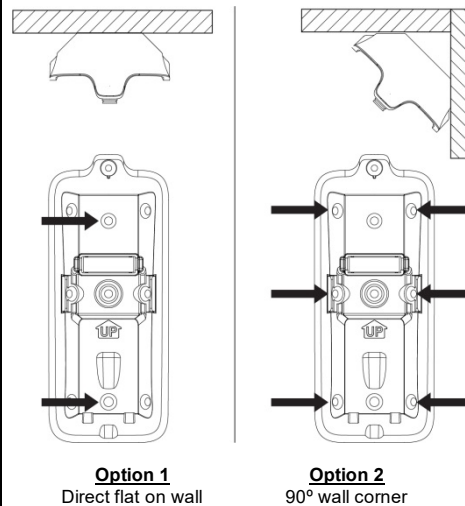
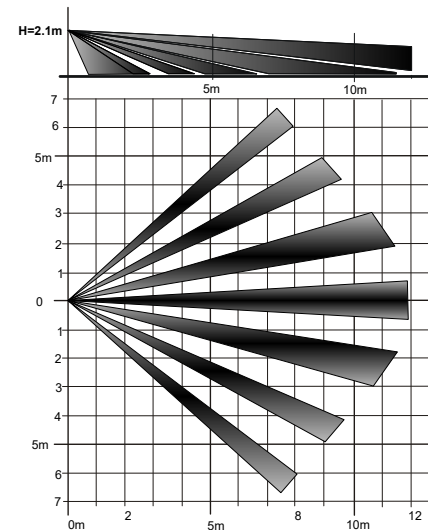


Figure 4

Avoid the following locations:

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

DETECTION COVERAGE



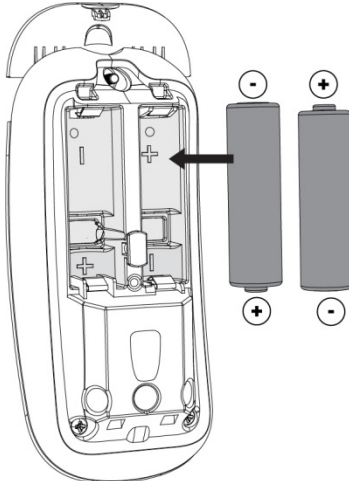
Recommended mounting height – 2.1m to 2.3m

PAIRING PROCESS

For pairing process, please refer to your control panel instructions.

To pair your device, please proceed as follows:

1. Enter in installing mode via the "Installer Webpage"
2. Go to "Zones" and select the zone # you want to learn
3. Add Zone -(Reminder: insert Link Type "ISM", device's ID, Device Type "Camera PIR on CT2035".)
4. Set the PIRCAM settings and save configuration.
5. Place batteries as instructed in Figure 3.
6. Verify Green & Red are blinking alternately, then the LED will turn Green on for 3 sec. to indicate device learned successfully.
7. The device should register to the Control Panel.
8. If Green LED continues flashing more than 5 minutes and stopped. Please check PIRCAM settings details, remove batteries and repeat step 4,5.

DETECTOR TESTING	BATTERY REPLACEMENT	SPECIFICATION	STANDARDS APPROVALS																																						
After pairing and installing the detector, we recommend performing walk and transmission tests. Motion Transmission Test Walk crossing in front of the detector from one side to the other will cause motion alert transmissions. Verify receiving the indication on your control panel. Pay attention that due to APS feature it is required waiting 30 seconds between 2 consecutive indications. Walk Test - Activate walk test mode via Web Installer (in the overview level), for walk test institutions use Panel manual. - Make few walk crossing in front of the detector and see results in Overview display. Tamper Transmission Test Changing the tamper switch state (by attaching / removing the device to / from the Bracket) will cause tamper transmissions. EVENT TRANSMISSION SUPERVISION – A periodical transmission (configurable) indicating detector's presence. ALARM – Alarm transmission triggered by the device indicating Motion detection. The Red LED will blink once. LOW BAT – Whenever the battery reaches the low level (2.9V), a Battery Low signal will be sent. When Battery level drops below Cut Off level (2.5V) the device will stop functioning and the Red LED will blink for 10 seconds and then turned Off. TAMPER – Whenever the cover is removed from Bracket or the device is tear off from the wall, a message will be transmitted with "Tamper ON" signal. When cover will be returned a "Tamper OFF" signal will be transmitted.	 Figure 5 The battery must be replaced by 2 Energizer L91 Lithium Batteries 1.5V Type AA CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL. DISPOSE USED BATTERIES ACCORDING TO ITS INSTRUCTIONS	<table><tr><td>Detection Method</td><td>PYRO Element S Shape</td></tr><tr><td>ISM Radio</td><td>2GFSK</td></tr><tr><td>Operating Frequencies</td><td>868-869MHz / 916-917MHz</td></tr><tr><td>Identification</td><td>Unique ID serial number – 24 bit</td></tr><tr><td>Camera</td><td>CMOS Camera HDR</td></tr><tr><td>Resolution</td><td>VGA 640x480 or WGVA 744x520</td></tr><tr><td>CMOS Sensitivity</td><td>16VLux/sec</td></tr><tr><td>Picture Mode</td><td>Configurable BW / QVGA</td></tr><tr><td>Resolution</td><td>Configurable VGA / QVGA</td></tr><tr><td>Events Transmission</td><td>Alarm, Tamper, Supervision, Low Bat, Keep Alive.</td></tr><tr><td>Supervision Time</td><td>7 min by default (configurable between 1 to 30 min)</td></tr><tr><td>Transmission Range</td><td>500m in open space</td></tr><tr><td>Battery</td><td>2 Energizer L91 Lithium batteries 1.5V, Size AA</td></tr><tr><td>Battery life</td><td>Up to 5 years</td></tr><tr><td>Current Consumptions</td><td>Standby ~70 µA Receive mode ~26 mA Transmit mode ~52 mA Transmit power up to 14 dBm Low Bat 2.9V Cut Off 2.6V</td></tr><tr><td>Tamper Switch</td><td>Front Cover and Wall Removal</td></tr><tr><td>Operating temperature</td><td>-10°C to +55°C</td></tr><tr><td>Dimensions</td><td>132mm x 50mm x 60mm</td></tr><tr><td>Weight (incl. battery)</td><td>120 gr.</td></tr></table>	Detection Method	PYRO Element S Shape	ISM Radio	2GFSK	Operating Frequencies	868-869MHz / 916-917MHz	Identification	Unique ID serial number – 24 bit	Camera	CMOS Camera HDR	Resolution	VGA 640x480 or WGVA 744x520	CMOS Sensitivity	16VLux/sec	Picture Mode	Configurable BW / QVGA	Resolution	Configurable VGA / QVGA	Events Transmission	Alarm, Tamper, Supervision, Low Bat, Keep Alive.	Supervision Time	7 min by default (configurable between 1 to 30 min)	Transmission Range	500m in open space	Battery	2 Energizer L91 Lithium batteries 1.5V, Size AA	Battery life	Up to 5 years	Current Consumptions	Standby ~70 µA Receive mode ~26 mA Transmit mode ~52 mA Transmit power up to 14 dBm Low Bat 2.9V Cut Off 2.6V	Tamper Switch	Front Cover and Wall Removal	Operating temperature	-10°C to +55°C	Dimensions	132mm x 50mm x 60mm	Weight (incl. battery)	120 gr.	The SH-PIR conforms to the essential requirements set out by: - EMC directive:2014/30/EU - LVD directive: 2014/35/EU - RE directive (RED): 2014/53/EU - RoHS3 directive: 2015/863/EU Harmonized Standards applicable to this products are: - EN 50130-4 - EN 61000-6-3 - EN 301 489-1 - EN 301 489-3 - EN 300 220-1 - EN 300 220-2 - EN 62368-1 Additional Standards and Directives applicable to this product are: - EN 50131-1 - EN 50131-2-2 - EN 50131-6 - EN 50131-5-3 - EN 50130-5 Certification body: Telefication B.V. Security Grade2, Environmental Class II Power supply Type C CE  
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