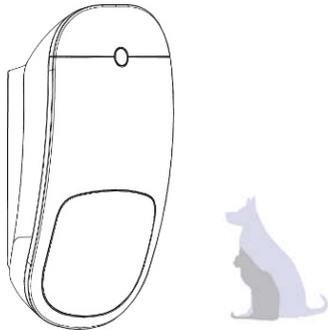




**SH-PIR-8F/9F**  
TWO WAY WIRELESS  
PIR MOTION DETECTOR



Pet Immunity  
Up to 25kgs

INSTRUCTION MANUAL  
P/N 7101391\_B

**PRODUCT FEATURES**

The SH-PIR is an advanced, fully supervised low-current wireless motion detector that includes a FW2 transceiver for reliable system operation combined with the most advanced Mirror Optics detection method.

- Freewave2™ Two Way ISM
- GFSK with 5 frequencies & LBT.
- Ultra Low current consumption.
- Immunity to attenuation feature
- Powered by a 3V Type CR123A Lithium battery.
- Motion Detection up to 12 meters
- Battery life up to 5 years.
- Operating Frequencies: 868MHz / 916MHz
- Event Transmission:
  - Alarm
  - Tamper Open/Close
  - Supervision
  - Battery status
- Bi-Color LED indications
- Up to 500m transmission range in open space.
- Remotely configurable.
- Pet immune up to 25kgs.

**DETECTOR OPENING**

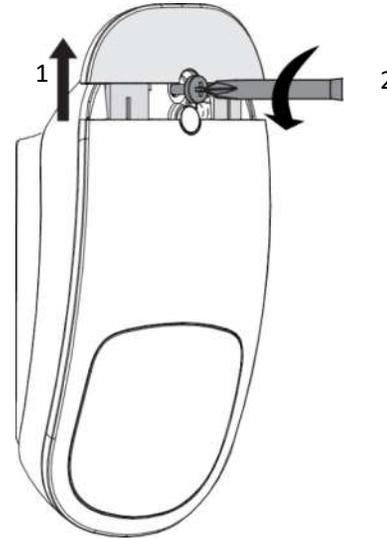


Figure 1

**BRACKET REMOVAL**

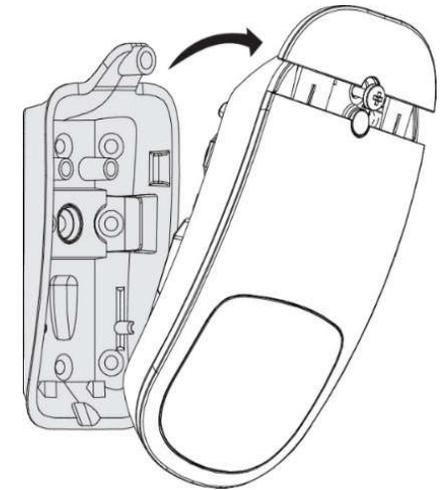


Figure 2

**BATTERY INSERTION**

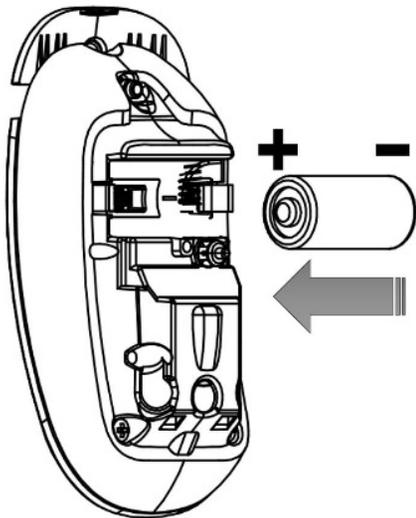


Figure 3

The battery can be replaced by the user  
Battery type: 3V Type CR123A Lithium

**DETECTOR MOUNTING**

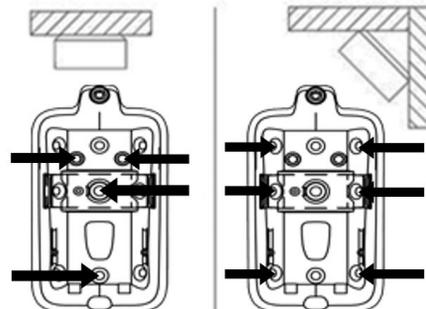
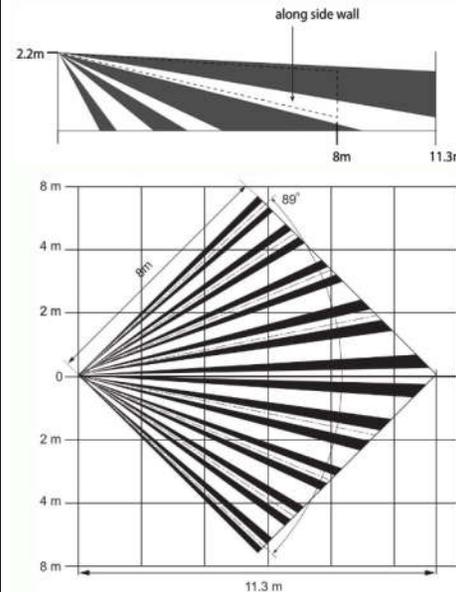


Figure 4

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**



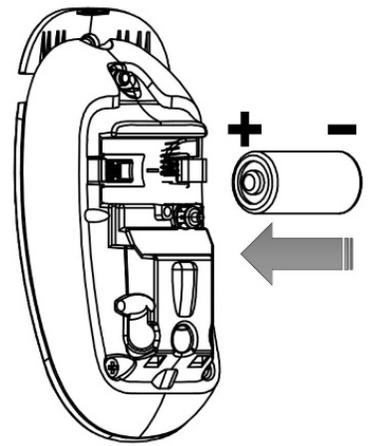
Recommended mounting height – 2.1m to 2.3m

**LEARNING PROCESS**

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

To pair your device with Shepherd™ panel, 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 "Infrared motion detector".)
4. Set the detector configuration: supervision time. Pulse count...and etc. and save configuration.
5. Place a battery as instructed in Figure 3 and wait until the Red LED stops blinking.
6. The device should register to the Control Panel.
7. When registration process is successfully completed, the Green LED will constantly light ON for 3 seconds and then turn OFF.
8. If Green LED continues flashing more than 5 minutes and stopped. Please check PIR settings details, remove batteries and repeat step 4,5,6

DETECTOR TESTING	BATTERY REPLACEMENT	SPECIFICATION	STANDARDS APPROVALS																												
<p>After pairing and installing the detector, we recommend performing walk and transmission tests.</p> <p><b>Motion Transmission Test</b></p> <p>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.</p> <p><b>Walk Test</b></p> <ul style="list-style-type: none"> <li>- Activate walk test mode via Web Installer (in the overview level), for walk test institutions use Panel manual.</li> <li>- Make few walk crossing in front of the detector and see results in Overview display.</li> </ul> <p><b>Tamper Transmission Test</b></p> <p>Changing the tamper switch state (by attaching / removing the device to / from the Bracket) will cause tamper transmissions.</p> <p><b>EVENT TRANSMISSION</b></p> <p><b>SUPERVISION</b> – A periodical transmission (configurable) indicating detector's presence.</p> <p><b>ALARM</b> – Alarm transmission triggered by the device indicating Motion detection. The Red LED will blink once.</p> <p><b>LOW BAT</b> – Whenever the battery reaches the low level (2.8V), a Battery Low signal will be sent. When Battery level drops below Cut Off level (2.6V) the device will stop functioning and the Red LED will blink for 10 seconds and then turned Off.</p> <p><b>TAMPER</b> – 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.</p>	 <p>Figure 5</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>The battery must be replaced by 3V Lithium</b></p> <p><b>Models such as</b></p> <ol style="list-style-type: none"> <li>VARTA CR123A</li> <li>GP CR123A</li> </ol> </div> <p style="text-align: center;"><b>CAUTION</b></p> <p style="text-align: center;"><b>RISK OF EXPLOSION</b> <b>IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL.</b></p> <p style="text-align: center;"><b>DISPOSE USED BATTERIES</b> <b>ACCORDING TO ITS INSTRUCTIONS</b></p>	<table border="0"> <tr> <td>Detection Method</td> <td>PYRO Element</td> </tr> <tr> <td>Communication Protocol</td> <td>Freewave2™ Two Way ISM GFSK with 5 frequencies &amp; LBT</td> </tr> <tr> <td>Operating Frequencies</td> <td>868-869MHz or 916-917MHz</td> </tr> <tr> <td>Identification</td> <td>Unique ID serial number – 24 bit</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>3V Type CR123A Lithium</td> </tr> <tr> <td>Battery life</td> <td>Up to 5 years</td> </tr> <tr> <td>Current Consumptions</td> <td>Standby ~11 µA Receive mode ~24 mA Transmit mode ~45 mA Transmit power up to 14dBm Low Bat 2.8V 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>108mm x 58mm x 43mm</td> </tr> <tr> <td>Weight (incl. battery)</td> <td>90 gr.</td> </tr> </table>	Detection Method	PYRO Element	Communication Protocol	Freewave2™ Two Way ISM GFSK with 5 frequencies & LBT	Operating Frequencies	868-869MHz or 916-917MHz	Identification	Unique ID serial number – 24 bit	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	3V Type CR123A Lithium	Battery life	Up to 5 years	Current Consumptions	Standby ~11 µA Receive mode ~24 mA Transmit mode ~45 mA Transmit power up to 14dBm Low Bat 2.8V Cut Off 2.6V	Tamper Switch	Front Cover and Wall Removal	Operating temperature	-10°C to +55°C	Dimensions	108mm x 58mm x 43mm	Weight (incl. battery)	90 gr.	<p><u>The SH-PIR conforms to the essential requirements set out by:</u></p> <ul style="list-style-type: none"> <li>• RTTE directive:1999/5/EC</li> <li>• EMC directive: 2004/108/EC</li> <li>• Low Voltage directive: 2006/95/EC</li> </ul> <p><u>Harmonized Standards applicable to this products are:</u></p> <ul style="list-style-type: none"> <li>• EN 50130-4</li> <li>• EN 61000-6-3</li> <li>• EN 301 489-1</li> <li>• EN 301 489-3</li> <li>• EN 300 220-1</li> <li>• EN 300 220-2</li> <li>• EN 60950-1</li> </ul> <p><u>Additional Standards and Directives applicable to this product are:</u></p> <ul style="list-style-type: none"> <li>• EN 50131-1</li> <li>• EN 50131-2-2</li> <li>• EN 50131-6</li> <li>• EN 50131-5-3</li> <li>• EN 50130-5</li> </ul> <p>Security Grade2, Environmental Class II Power supply Type C Certification body: Telefication B.V.</p> <div style="text-align: right;">    </div>
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<p><b>WARRANTY POLICY CERTIFICATE</b></p>		<div style="text-align: center;">  </div> <p style="text-align: center;"> <a href="mailto:sales@crow.co.il">sales@crow.co.il</a>  <a href="mailto:support@crow.co.il">support@crow.co.il</a>   <a href="http://www.thecrowgroup.com">www.thecrowgroup.com</a> </p> <p style="text-align: center;">These instructions supersede all previous issues in circulation prior to December 2017</p>																													