

eyeWAVE™ Wireless PIR Camera



Installation Instructions

Description

Wireless eyeWaveTM is a battery powered PIR detector with an integrated camera, designed for video verification and simple installation by alarm installers. The camera captures and transmits a sequence of images to a remote server or to mobile phones via RISCO systems, upon an intrusion event or homeowner demand

Main Features	Coverage Patterns		Camera FOV
 PIR coverage 12m (40') wide angle VGA/VGA camera resolution with ~90° field-of-view Discreet IR flash allows imaging in complete darkness, up to 10m (33') Two RF channels with separate antennas: One for alarms and control; Second channel for image transmission Sequence of images upon event, configurable number and interval and number of images During disarm, events are ignored to save battery and for privacy On-demand images initiated from authorized mobile phone or web browser Option for on-arm image taking Images stored on detector until transmission to panel is completed Includes 2 long-life 3V lithium batteries Works only with video-supporting systems 	PIR Model	Pet Friendly Model PIR Pet-SDE VIEW	Side view $10^{70^{\circ}}$ D = 2.4 m Top view 90°

Installation

Step1: Preliminary Considerations

Select the mounting location for best coverage of the area that is to be protected (see Coverage Patterns).

- Pay attention to the following
- + Do not touch the lens with your finger as it will result in blurred image capture.
- + Do not mount the detector in direct sunlight or near heated sources and metal objects
- + Detection sectors should be pointed towards either the wall or the floor and not towards windows and curtains.
- Select mounting height according to the coverage patterns (recommended: 2.0-2.4 m in height and at least 40cm from ceiling).

Step 2: Registering the Detector into the system

The eyeWAVE must identify itself to the system receiver in a device allocation (enrollment) process, which can be performed by either RF sequence registering or entering the detector's 11-digit serial number into the system or using RF mode (Panel Quick Key Programming Sequence:

(From the panel) 2) Radio Devices > 1) Allocation > 1) By RF or 2) By Code.

(Through Configuration Software) Click Radio Device Allocation > Enter Serial Code: [045] + [8 digits]; Indexed: Automatic or manually designated 1-32; Accessory Type: 2-Way Detector (displayed)). Then click Allocate: RF Allocation.... is performed. Refer to the Sytem Installation manual for full instructions.

Step 3: Mounting the detector

1. Open the knockout holes of the mounting bracket, and use them as a template for mounting according to the following table (see Figure 1).

	Mounting position		
Knockout for	Left	Flat	Right
Bracket	7,8	1,2,3,4	5,6
Tamper	9	10	11

For Pet-Friendly Model:

In order to optimize pet immunity the following guide lines are recommended:

- Mount the detector vertically at right angles to the floor. Make sure an animal cannot get above height of 1.5m (5') by climbing on furniture, shelving or stairs.
- Fasten the cover to the base of the detector by inserting and fastening screw (B) into the hole located inside the battery compartment. (see Figure 3)
- 3
- Insert the batteries and close the battery compartment cover. (see Figure 3) Once the bracket is installed, slide and lock the detector onto the mounting bracket in reverse sequence. (see Figure 2) 4 5
- Perform a Walk Test as described in the Walk Test section. 6. Insert and fasten screw (C) into the hole located at the bottom of the detector to lock the detector to the mounting bracket. (see Figure 3).

Step 4: Walk Test

- Upon inserting the batteries, the detector goes into a Walk Test mode for 20 minutes and then automatically returns to Normal mode (To save battery power). During Walk Test Mode, the detector will transmit after each detection. Walk test the entire field view of the detector and observe the LED for confirmation. Verify that the receiver is properly receiving the signals
- Manually initiate a walk test from the control panel:
 - Installation Menu: 2) Testing > 2) Zone > 3) Walk Test 1) Start Walk Test
 - The detector remains in walk test mode until any key on the panel is pressed. Display test results as follows:

Installation Menu: 2) Testing > 2) Zone > 3) Walk Test 2) Walk Test Results

Camera Configuration

- Being bi-directional, the detectors parameters can be modified from the keypad or from the system configuration software according to your needs:
- PIR Sensitivity: High/Low (Default: Low)
- Supervision Time: 0-255 minutes (Default: 15 min)
- LED: On/Off (Default: On) Operation Mode.
- ♦ Walk Test: The detector will transmit after each detection
- Normal (Default)

For more information refer to the System Installer Guide. Configure the camera settings through the RISCO Configuration Software (right-click on the Serial Code field in the Zones node screen and in the displayed pop-up click Additional..) or through the panel quick key programming sequence as follows (default in **bold**):

Programming > 2) Radio Devices > 2) Modification > 1) Zone [Select (1–32)] > 1) Parameters > 6) Advanced 5) Camera Parameters:

- Images at Alarm: 3 (1 to 7 images) 1)
 - 2)
 - Image Interval: 0.5 sec (0.5, 1, 2 seconds) Pre-Alarm Image: Yes (Yes, No) (Image capture upon each arm) 3)
 - 4) 5) Image Resolution: QVGA (QVGA 320X240, VGA 640X480)
 - Image Quality: High (High, Low)
 - Colour Image: Colour (Colour, B&W) 6)

Image upon request

Taking a snapshot from the PIR Camera can be initiated by using SMS command from any remote phone SMS Message structure: [PIN Code][V][Camera No 01-32], example: 1234V01

Images can also be taken using web/smartphone apps (on panels supporting these applications).

Event Report

Every event detected by the PIR camera is recorded into the camera's memory. The event record consists of the date and time mark, detail description of the event including its source and a video record.

LED Status

On

Blinking twice:

(In alarm mode) Low battery Blinking four times: (In initial learning mode) Successful write operation

Alarm

Diagnostics

You can perform diagnostic tests on your detector using the keypad or the configuration software. Diagnostics includes testing the detector battery status and the communication between the detector and the panel. For additional information refer to the System Installer Manual.

To replace the batteries:

A low battery condition is detected by a flashing LED on each transmission.

To replace the batteries:

Remove the detector from the mounting bracket.(Figure 2)

- Open the battery cover.(Figure 3) 2 Replace the batteries. Pay attention to the right polarity.
- 3 Close the battery cover.
- CAUTION:

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations

NOTE: After replacing the batteries and closing the tamper, the detector will automatically go into in Walk Test mode for 20 minutes

Specifications

Approvals

EN50131-1

Part Number

RWX95CM8000A

RWX95CMP800A

RWX95CM4000A

RWX95CMP400A

EN50131-2-2 Grade 2.

EN50130-5 Environmental Class II, EN50131-6: Type C

Description

868.65 MHz 2-Way WL PIR & CAM Detector

868.65 MHz 2-Way WL PIR Pet & CAM Det. 433.92 MHz 2-Way WL PIR & CAM Detector

433.92 MHz 2-Way WL PIR Pet & CAM Det

Ordering Information

Electrical		
Battery Type:	2 x CR 123, 3V Lithium Battery	
Battery Life:	2 batteries – 3 year typical lifetime	
Current Consumption:	58 μA standby;	
-	200 mA max. peak at capture with flash	
Supervision	0-255 minutes	
Transmission:		
RF transmitting	868.65 MHz; 869.525 MHz for model	
frequencies:	RWX95CM8	
	433.92 MHz; 916 MHz for model	
	RWX95CM4	
Optical	1	
Filtering:	White Light Protection	
Pet friendly:	Up to a 36 kg (80lb) animal (pet model)	
Physical		
Size:	132 x 67,5 x 56 mm	
	(5.1 x 2.6 x 2.2 in)	
Weight:	169 grams (5.96 oz.)	
Environmental		
RF Immunity:	According to EN50130-4	
Operating Temperature:	-10°C a 55°C	
	(14°F a 140°F)	
Storage Temperature:	-20°C a 60°C	
	(-4°F a 140°F)	
Camera		
Type:	CMOS digital image sensor	
Lux:	0 Lux (total darkness)	
View Angle:	H 90 ° V 71 °	

RISCO Group Limited Warranty

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Seller does not represent that its product may not be compromised or circumvented; that the product will prevent any personal injury or

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Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, seller's maximum liability shall not exceed the purchase price of the product, which shall be

complete and exclusive remedy against seller. No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty. WARNING: This product should be tested at least once a week.

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Specifications are subject to change without prior notice. Should any questions arise please contact your supplier

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