

EL-5835D Wireless Outdoor DT Detector

EL-5835DC Wireless Outdoor DT CAM Detector

Installation Instructions



Model: EL-5835D / EL-5835DC

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Description

The EL-5835D is a battery powered wireless DT detector that includes an integrated camera (EL-5835DC model) for visual verification and has been designed to provide enhanced 24-hour outdoor protection, with Active IR Anti-mask capabilities. Integrated Dual Technology (DT) combines two K-band microwave channels with two PIR sensors for better catch performance and pet immunity, minimizing false alarm.

Features include

- PIR coverage: 12m, 90°
- VGA or QVGA camera resolution with ~90° field-of-view*
- Two channel K band - MW detection (**Sway Recognition**)
- Pet immunity
- Two correlated PIR Sensors
- Light sensor for reducing false alarms due to sunlight
- Active IR Anti mask
- Various mounting heights with optional swivel bracket
- Designed for outdoor installation, UV resistant, IP 65
- Cover and wall tampers
- 3-axis-accelerometer for protection against vandalism
- Solar swivel for increased battery life (6+ years typically): EL-5835SL (optional)

What's in the box

- EL-5835D Wireless DT Detector / EL-5835DC Wireless DT Camera Detector
- Screws Kit: 5 screws ø4.2x32 mm
- Installation Instructions

* Applicable to EL-5835DC Model

Installation

Step 1: Preliminary Considerations

Select the mounting location for best coverage of the area that is to be protected (see Step 2: Coverage Patterns). Pay attention to the following:

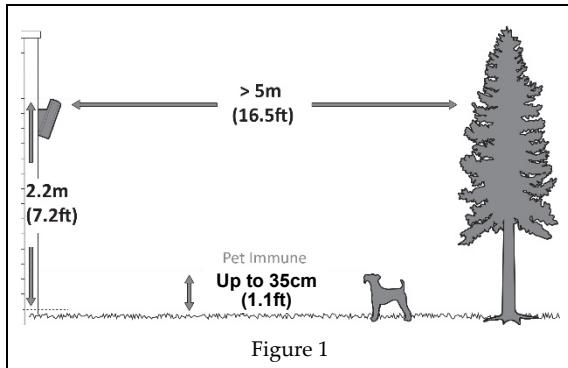


Figure 1

Install the device in a location where the detector's field of view is clear of any static obstacle

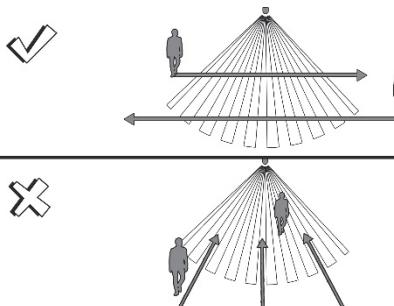


Figure 2

Walking direction must cut across the beam pattern

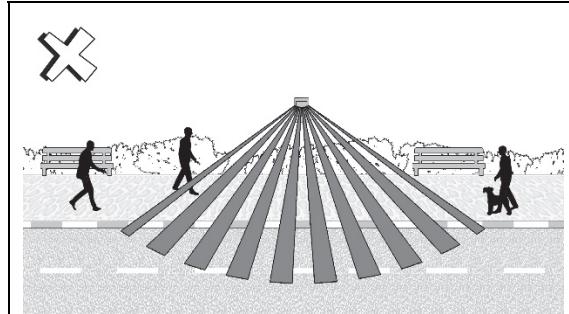


Figure 3

Do not install the device close to any moving objects

Step 2: Coverage Patterns

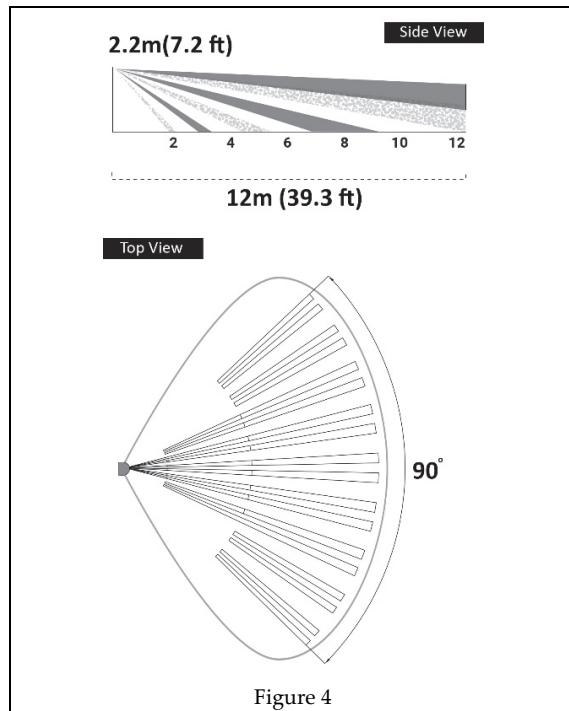


Figure 4

Step 3: Coverage

PIR Coverage

| Mounting height [m] | Distance [m] |
|---------------------|--------------|
| 1.8 | 10 |
| 2.2 (optimal) | 12 |

Note For pet immunity, install the detector at the optimal height of 2.2 meters.

PIR Coverage - Using Swivel

Note The table below is relevant when using the Swivel/Solar Swivel Bracket (Model: EL-5835SL).

| Mounting height [m] | Swivel Angle [°] | Distance [m] |
|---------------------|------------------|--------------|
| 1.8 | 0 | 10 |
| | 5 | 7 |
| | 10 | 5 |
| 2.2 (optimal) | 0 | 12 |
| | 5 | 8 |
| | 10 | 6 |
| 2.5 – 2.7 | 0 | N/A |
| | 5 | 10 |
| | 10 | 7 |

NA = Avoid such installation

Step 4: Registering/Deleting the Detector

Registration of the Detector in the System

The EL-5835 detector must identify itself to the panel's receiver, as follows:

1. Set the system to registration mode.
 - a. Go to the main menu and select [9]>[1]>[1]
(Programming > Devices > Zones).
 - b. Select a zone and press 'v'.
2. Open the detector housing.
3. Remove the battery from the detector, remove the battery's plastic wrapping and then put back the battery. When the LEDs stop blinking, the detector will send a transmission (Red LED is on). If the transmission is successfully received by the system, it will play a confirmation sound. If no confirmation sound is heard send another transmission by pressing and releasing the tamper switch of the device.
4. As soon as 'Save?' appears press 'v'; the Red LED flashes to indicate RSSI registration completion.

Quick Registration in the System (If Quick Registration is enabled)

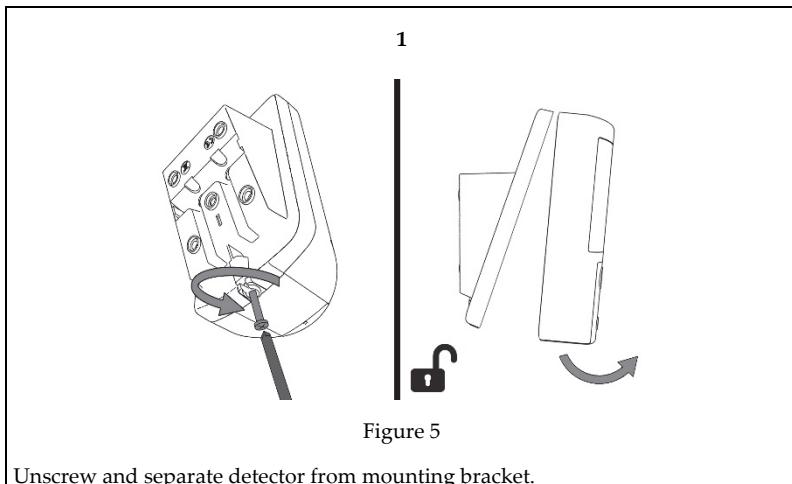
1. At the control panel, press and hold  for about 3 seconds (disregard the ENTER USER CODE message) until QUICK REGISTR is displayed.
2. Open the detector housing.
3. Remove the battery from the detector, remove the battery's plastic wrapping and then put back the battery. The detector will send a transmission. If the transmission is successfully received by the system it will play a confirmation sound. If no confirmation sound is heard, send another transmission by pressing and releasing the tamper switch of the device.
4. As soon as 'Save?' appears press 'v'.

Deleting a DT Detector from the System

To delete a DT detector from the system:

1. Set the system to Delete mode.
 - a. Go to the main menu and select [9]>[1]>[1] (Programming > Devices > Zones).
 - b. Select a zone and press 'V'.
2. Press >12>V.
3. Open the detector and take out the battery.
4. Close and hold the tamper switch.
5. Insert the battery (while the tamper is being pressed).
6. Wait for the the LEDs to stop blinking. Within 5 seconds, open the tamper and close it again.

Step 5: Mount the Detector on the Wall Bracket



2

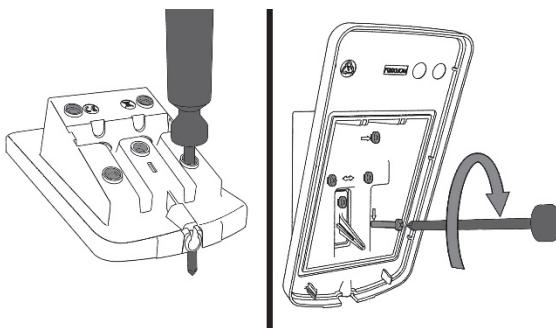


Figure 6

Open the 5 knockout holes of the wall bracket, and use as a template for mounting.

3

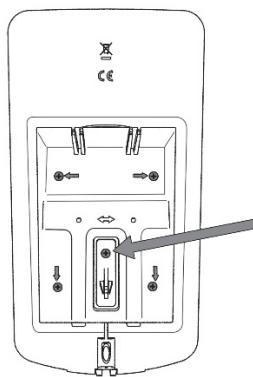


Figure 7

Secure the wall bracket to the wall using the 5 screws.

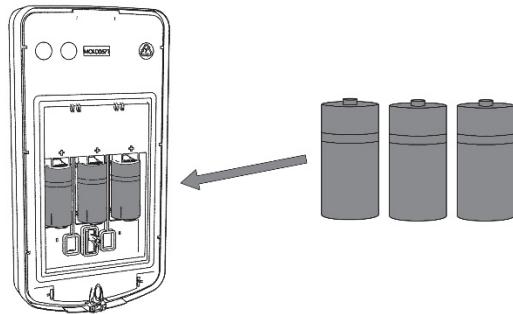


Figure 8

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

CAUTION! The detector batteries are supplied inside of the unit, which are covered with plastic wrapping. Remove the plastic wrapping from the batteries before installation.

Observing battery polarity, insert 3 CR123 3V Lithium batteries (supplied) into the batteries compartment.

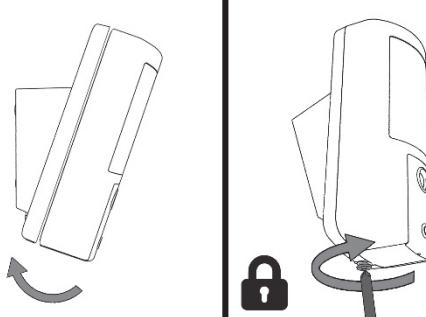


Figure 9

Insert and fasten the screw to lock the detector.

Performing a Walk Test

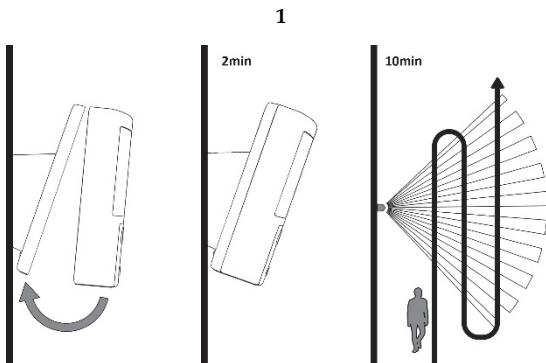


Figure 10

The detector automatically enters walk test mode for 10 minutes following tamper closure. Walk through the entire protected area and observe the LEDs to confirm full coverage (*see LED Status*).

2

Manually initiate a walk test:

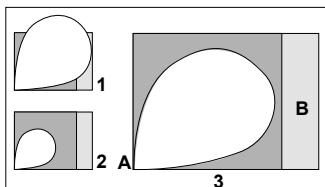
From the main menu: 7)Service > 3)Tests > 4)Walk test

(Quick key 7>03>4)

After completing the walk test, set the system to normal operation mode.

MW Range Adjustment

- | | |
|----------------------|------------|
| 1 Over power | A Detector |
| 2 Under power | B Corridor |
| 3 Correct adjustment | |



Anti-Mask Calibration

Following tamper closure, the anti-mask calibration procedure begins (up to 2 minutes). For successful calibration, make sure that there are no objects near the detector for the duration of the procedure.

Detector Configuration (via Web, Local Remote Programmer or Keypad)

Being bi-directional, the detectors parameters can be modified from the keypad or from the Remote Programmer (RP) software, as required.

Settings Configuration from the keypad

Go to the main menu and select 9)Programming> 1)Devices > 1)Zones > 11)Sensor Par.

Settings Configuration from the Remote Programmer software

Via Zone 2WRF

Configuration Parameters for EL-5835D Model

| | |
|-------------------------|--|
| LED: | Enable*/Disable |
| PIR Sensitivity: | High/Low* |
| MW Sensitivity | Min. 25%, 50%, 65%*, 85%, max. |
| Alarm Delay | Fast: The detector detects and transmits every 2.5 sec. |
| | Normal*: The detector detects and transmits every 2.5 min. |
| Anti-Mask | Enable/Disable* |
| Position Sensor: | Enable/Disable* |

NOTE: The Disposition Sensor sends a Trouble event following change in the position of the detector.
The Anti-Mask sends a Trouble event following the covering of the detector.

* Default

Configuration Parameters for EL-5835DC Model

| | |
|----------------------------|---|
| Camera Resolution: | QQVGA 160X120 ; QVGA 320X240* or VGA 640X480 |
| Color: | Color* or B&W |
| Compression: | High*, Low |
| Flash | Enable*/Disable |
| Number of Pictures: | 1 to 9 images** |
| Image Delay: | From 0 to 1000 msec*** |
| User Monitor | Enable*/Disable |
| Zone Assignment | 00-00-00-00 (Detection in any of the zones triggers the camera to take a picture) |

* Default

** Default is 3 images

*** Default is 450 msec

Image Upon Request

Snapshot images can be taken using web/smartphone apps (on panels supporting these applications) or keypad.

To test the EL-5835DC detector via the keypad:

1. Set the iConnect 2-Way panel to Test mode (Quick key 7>03>5).
2. If more than one zone is defined, select a defined zone and press 'v'.
3. In the displayed: SNAPSHOTS, choose the number (1-9) of snapshots to be taken and press 'v' to transmit the snapshots.

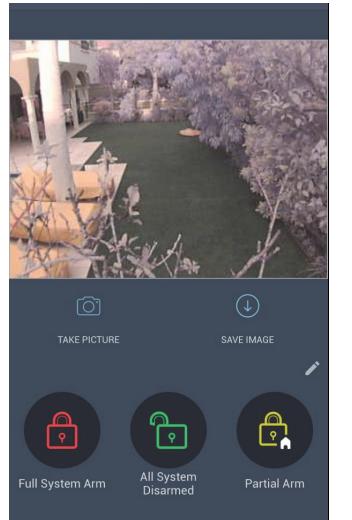


Figure 11

LED Status

| LED | State | Description |
|------------------|---------------------|--|
| Yellow | ON | PIR detection |
| | Flashing (3 times) | Anti-Mask detection |
| Red | Flashing | According to RSSI strength (open tamper registered) Off: No connection with the panel |
| | ON | Not registered (open tamper) |
| | ON | Alarm (closed tamper) |
| Green | ON | MW detection |
| Red/Green/Yellow | Flashes in sequence | For several seconds after power on |

Specifications

| Electrical | |
|------------------------------|---|
| Battery Type : | 3 x CR 123, 3V Lithium Battery |
| Battery Life: | 3 batteries – 3 year typical lifetime |
| Current consumption: | With Camera: 25 µA sleep; 200 mA max. peak at capture with flash Without Camera: 48 µA |
| Supervision Transmission: | 10 minutes |
| RF transmitting frequencies: | 433 MHz, 868 MHz, 24.05GHz |
| Optical | |
| Filtering: | White Light Protection |
| Pet Immunity: | Up to 35cm (1.1ft) animal |
| Physical | |
| Size (LxWxD): | 176 x 89 x 107 mm (7 x 3.5 x 4.2 in) |
| Weight: | 410 grams (14.5 oz.) |
| Environmental | |
| RF Immunity: | According to EN50130-4 |
| Operating Temperature: | -30°C to 60°C (-22°F to 140°F) |
| Storage Temperature: | -20°C to 60°C (-4°F to 140°F) |
| Relative Humidity | 90% max |
| Camera* | |
| Type: | CMOS digital image sensor |
| Lux: | 0 Lux (total darkness) |
| View Angle: | H 90° V 71° |
| Power Output | 433 MHz, 868 MHz : 10dBm Max. 24.05GHz : 16dBm Max. |

Ordering Information

| Product P/N | Description |
|--------------|--|
| E8US350BDT0A | EL-5835D Wireless DT Outdoor Detector 868 |
| E4US350BDT0A | EL-5835D Wireless DT Outdoor Detector 433 |
| E8US350BDC0A | EL-5835DC Wireless Outdoor DT CAM Detector 868 |
| E4US350BDC0A | EL-5835DC Wireless Outdoor DT CAM Detector 433 |

* Applicable to EL-5835DC model

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RISCO Ltd. (“RISCO”) guarantee RISCO’s hardware products (“Products”) to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of delivery of the Product (the “Warranty Period”). This Limited Warranty covers the Product only within the country where the Product was originally purchased and only covers Products purchased as new.

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Remedies. In the event that a material defect in a Product is discovered and reported to RISCO during the Warranty Period, RISCO shall accept return of the defective Product in accordance with the below RMA procedure and, at its option, either (i) repair or have repaired the defective Product, or (ii) provide a replacement product to the customer.

Return Material Authorization. In the event that you need to return your Product for repair or replacement, RISCO will provide you with a Return Merchandise Authorization Number (RMA#) as well as return instructions. Do not return your Product without prior approval from RISCO. Any Product returned without a valid, unique RMA# will be refused and returned to the sender at the sender’s expense. The returned Product must be accompanied with a detailed description of the defect discovered (“Defect Description”) and must otherwise follow RISCO’s then-current RMA procedure published in RISCO’s website at www.riscogroup.com in connection with any such return. If RISCO determines in its reasonable discretion that any Product returned by customer conforms to the applicable warranty (“Non-Defective Product”), RISCO will notify the customer of such determination and will return the applicable Product to customer at customer’s expense. In addition, RISCO may propose and assess customer a charge for testing and examination of Non-Defective Product.

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