

## IIR-50850-SR Illuminator, 850nm, short range



The infrared illuminator provides covert or semi-covert lighting for short-range indoor and outdoor surveillance applications. IR illumination dramatically improves night-time imaging, and reduces noise and bit rates.

The set of interchangeable diffuser lenses means that beam patterns can be selected that match your application to provide accurately illuminated scenes. The self-cleaning window reduces maintenance requirements. Specifically designed for energy efficient operation, the illuminator can be powered directly from any 12 to 32 VDC supply for faster, flexible, cost effective installations.

### System overview

Energy efficient surface-mount high-power LEDs deliver maximum illumination with reduced power consumption. Advanced electronic control circuitry delivers improved thermal management, long life and low cost of ownership. A pressure equalization valve prevents thermal expansion and pressure cycling. Easy access to power and photo cell adjustment facilitates quick and easy installation.

### Regulatory information

Standards	Type
<b>CE-EMC</b>	EN 61547 (Lighting-Immunity)
	EN 55015 (Lighting-Emission)
	EN 62493( Lighting EMF)
	EN 50130-4 (Alarm EMC)

- ▶ Integrated adjustable photocell
- ▶ Adjustable IR intensity
- ▶ Interchangeable beam pattern diffusers to match beam to camera
- ▶ Telemetry input and photocell output for external switching
- ▶ Self-cleaning lens coating technology

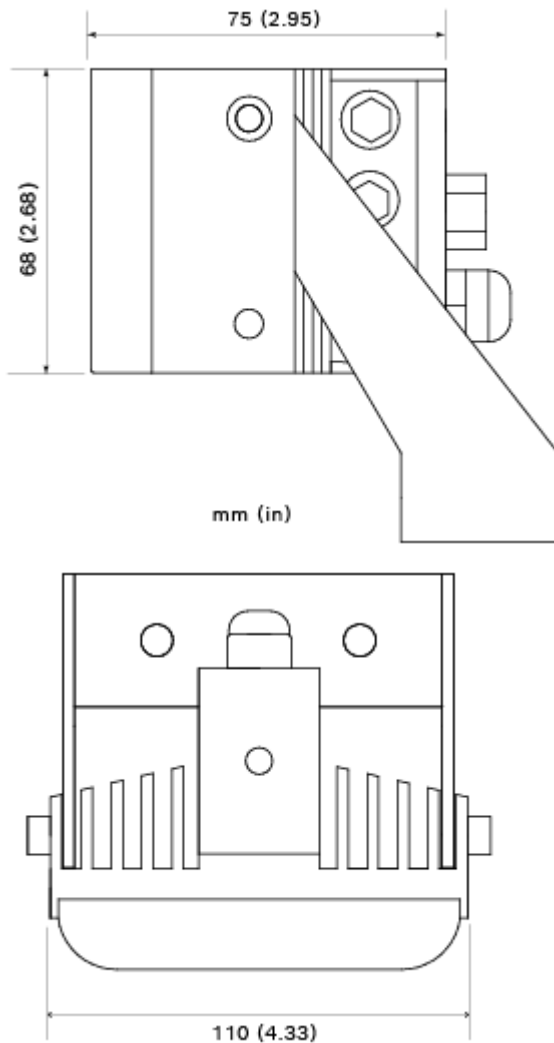
Standards	Type
<b>Safety</b>	
CE-LVD	EN-60598-1 (Luminaires-General)
	EN-60598-2-1 (Luminaires)
LED	EN 62471 Risk group 2 (LED safety)
<b>Environmental</b>	
	IEC / EN 60529 IP66
	IEC / EN 62262 IK09
	EN50130-5 Class IV (Alarm-environmental)
	EN 50581 RoHS,
<b>USA cULus</b>	
	UL 2108 Low Voltage Lighting Systems
	UL 8750 Light Emitting Diode (LED) equipment for use in lighting systems
	CSA C22.2 No. 250.0-08 Luminaires
	FCC, Class B
<b>AUS</b>	RCM AS / NZS CISPR 22 Class B

Region	Regulatory compliance/quality marks
Europe	CE
USA	UL

Region	Regulatory compliance/quality marks
Great Britain	UKCA

### Installation/configuration notes

#### Dimensions



Use only one of these three Power Supply Units with this product:

- PSU-IIR-35
- PSU-IIR-60
- PSU-IIR-100

### Parts included

Quantity	Component
1	IR illuminator with bracket
5	Beam pattern diffusers
1	Installation Guide

### Technical specifications

#### Power

Power supply 12 to 32 VDC

Power consumption 13 W

#### Optical

Wavelength 850 nm

IR control Adjustable IR intensity (10% to 100%)

Day/night switch Photocell, sensitivity adjustable (20 lx to 70 lx)

Beam angles 10°, 30°, 60°, and 95°

#### Range 850 nm

Beam pattern diffuser	Achievable Distance*	HFOV
10°	156 m (510 ft)	27 m (89 ft)
30°	78 m (255 ft)	42 m (137 ft)
60°	49 m (162 ft)	57 m (187 ft)
95°	25 m (81 ft)	54 m (177 ft)

\* Actual illumination distance achieved is dependent on camera and lens characteristics.

#### Mechanical

Housing	Robust anodized aluminum extrusion, black
Front window	Polycarbonate high transmittance (vandal-resistant) with self-cleaning technology
Mount	Black powder coated stainless steel U-bracket (adjustable with M6 socket-head wrench)
Cable	3 m (9 ft)
Dimensions (W x H x D)	110 x 68 x 75 mm (4.33 x 2.68 x 2.95 in)
Bracket dimensions (W x H x D)	110 x 125 x 35 mm (4.33 x 4.92 x 1.38 in)
Weight	750 g (1.6 lbs)
Bracket weight	0.2 kg (0.44 lbs)

#### Environmental

Operation Temperature Range -50 °C to +50 °C (-58 °F to +122 °F)

Protection IP66

## Ordering information

### IIR-50850-SR Illuminator, 850nm, short range

Short range IR illuminator

850 nm

Order number **IIR-50850-SR**

## Accessories

### IIR-MNT-SLB Bracket for illuminator, single L, black

Illuminator single L-bracket, black

Order number **IIR-MNT-SLB**

### IIR-MNT-DLB Bracket for illuminator, double L, black

Illuminator double L-bracket, black

Order number **IIR-MNT-DLB**

### IIR-MNT-TLB Bracket for illuminator, triple L, black

Illuminator triple L-bracket, black

Order number **IIR-MNT-TLB**

### IIR-MNT-PMB Bracket for illuminator, pole mount

Illuminator pole mount bracket, black

Order number **IIR-MNT-PMB**

### PSU-IIR-35 Power supply, 100-240VAC/24VDC, 1.46A

Constant Voltage, 24 VDC, 35W power supply designed for LED lighting applications. 100-240VAC in, 1.46A out. Aluminum case rated IP67.

Order number **PSU-IIR-35**

### PSU-IIR-60 Power supply, 100-240VAC/24VDC, 2.5A

Constant Voltage, 24 VDC, 60W power supply designed for LED lighting applications. 100-240VAC in, 2.5A out. Aluminum case rated IP67.

Order number **PSU-IIR-60**

### PSU-IIR-100 Power supply, 100-240VAC/24VDC, 4.17A

Constant Voltage 24 VDC, 100W power supply designed for LED lighting applications. 100-240VAC in, 4.17A out. Aluminum case rated IP67.

Order number **PSU-IIR-100**

## Services

### EWE-IIR850-IW 12 mths wrty ext IR Illuminator 850 nm

12 months warranty extension

Order number **EWE-IIR850-IW**

#### Represented by:

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