

IIR-50850-XR Illuminator, 850nm, extra range



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

Regulatory information

Region	Regulatory compliance/quality marks
Europe	CE
Great Britain	UKCA
USA	UL

Installation/configuration notes

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	
Power consumption	52 W
Optical	
Wavelength	850 nm or 940 nm
IR control	Adjustable IR intensity (10% to 100%)
Day/night switch	Photocell, sensitivity adjustable (20 lx to 70 lx)
Beam angles	10°, 20°, 30°, 60°, 80°, and 95°

Range 850 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10°	308 m (1010 ft)	54 m (177 ft)
20°	210 m (689 ft)	74 m (243 ft)
30°	154 m (505 ft)	83 m (271 ft)
60°	98 m (322 ft)	113 m (371 ft)
80°	70 m (230 ft)	117 m (385 ft)
95°	49 m (161 ft)	107 m (351 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10°	189 m (620 ft)	33 m (108 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
20°	112 m (367 ft)	39 m (130 ft)
30°	91 m (299 ft)	49 m (160 ft)
60°	56 m (184 ft)	65 m (212 ft)
80°	42 m (138 ft)	70 m (231 ft)
95°	28 m (92 ft)	61 m (201 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 214 x 75 mm (4.33 x 8.43 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	1.84 kg (4.1 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-XR Illuminator, 850nm, extra range

Extra long range IR illuminator

850 nm

Order number **IIR-50850-XR**

Accessories

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

Illuminator single L-bracket, black

Order number **IIR-MNT-SLB**

Represented by:

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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, 1.25A

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, 4.2A

Constant Voltage 24 VDC, 100W power supply designed for LED lighting applications. 100-240VAC in, 4.16A 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**