

IIR-50850-MR Illuminator, 850nm, medium 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	26 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°	220 m (722 ft)	38 m (126 ft)
20°	150 m (492 ft)	53 m (174 ft)
30°	110 m (361 ft)	59 m (193 ft)
60°	70 m (230 ft)	81 m (265 ft)
80°	50 m (164 ft)	84 m (275 ft)
95°	35 m (115 ft)	76 m (251 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10°	135 m (443 ft)	24 m (77 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
20°	80 m (262 ft)	28 m (93 ft)
30°	65 m (213 ft)	35 m (114 ft)
60°	40 m (131 ft)	46 m (152 ft)
80°	30 m (98 ft)	50 m (165 ft)
95°	20 m (66 ft)	44 m (143 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 114 x 75 mm (4.33 x 4.49 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	1.06 kg (2.3 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-MR Illuminator, 850nm, medium range

Medium range IR illuminator

850 nm

Order number **IIR-50850-MR**

Accessories

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

Illuminator single L-bracket, black

Order number **IIR-MNT-SLB**

Represented by:

Europe, Middle East, Africa:
Bosch Security Systems B.V.
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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**