

### IIR-50850-MR Illuminator, 850nm, medium range



The infrared illuminator provides covert or semicovert lighting for medium-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	Туре
CE-EMC	EN 61547 (Lighting-Immunity)
	EN 55015 (Lighting-Emission)
	EN 62493( Lighting EMF)
	EN 50130-4 (Alarm EMC)

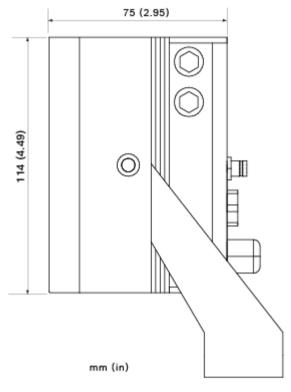
- ► Adjustable IR intensity
- ► Integrated adjustable photocell
- ► Interchangeable beam pattern diffusers to match beam to camera
- ► Self-cleaning lens coating technology
- ► Telemetry input and photocell output for external switching

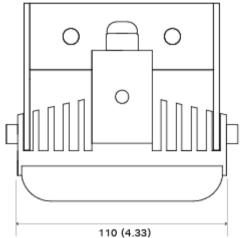
Standards		Туре	
Safety			
CE-LVD		EN-60598-1 (Luminaires-General)	
		EN-60598-2-1 (Luminaires)	
LED		EN 62471 Risk group 2 (LED safety)	
Environment	al	IEC / EN 60529 IP66	
		IEC / EN 62262 IK09	
		EN50130-5 Class IV (Alarm-environmental)	
		EN 50581 RoHS,	
USA cULus		UL 2108 Low Voltage Lighting Systems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

Qua nt- ity	Component
1	IR illuminator with bracket
5	Beam pattern diffusers
1	Installation Guide

#### **Technical specifications**

Power	
Power supply	12 to 32 VDC
Power consumption	26 W
Optical	
- P	
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°	220 m (722 ft)	38 m (126 ft)
300	110 m (361 ft)	59 m (193 ft)
60°	70 m (230 ft)	81 m (265 ft)
950	35 m (115 ft)	76 m (251 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)

Mechanical	
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** 

#### 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:

#### Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands www.boschsecurity.com/xc/en/contact/ www.boschsecurity.com

# Asia-Pacific: Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943 www.boschsecurity.com/xc/en/contact/ www.boschsecurity.com/xc/en/contact/ www.boschsecurity.com