IP IR Illuminator 5000 MRP

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BOSCH
Invented for life

- ▶ Integrated adjustable photocell
- ▶ Adjustable IR intensity
- ▶ Interchangeable beam pattern diffusers to match beam to camera
- ▶ Self-cleaning lens coating technology
- ▶ Web interface set up

The network infrared illuminator provides covert or semi-covert 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 Power-over-Ethernet (PoE+) 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. Additional functions include Eco and boot power modes, a tamper/shock sensor, and an integrated web interface for easy set-up and adjustment.
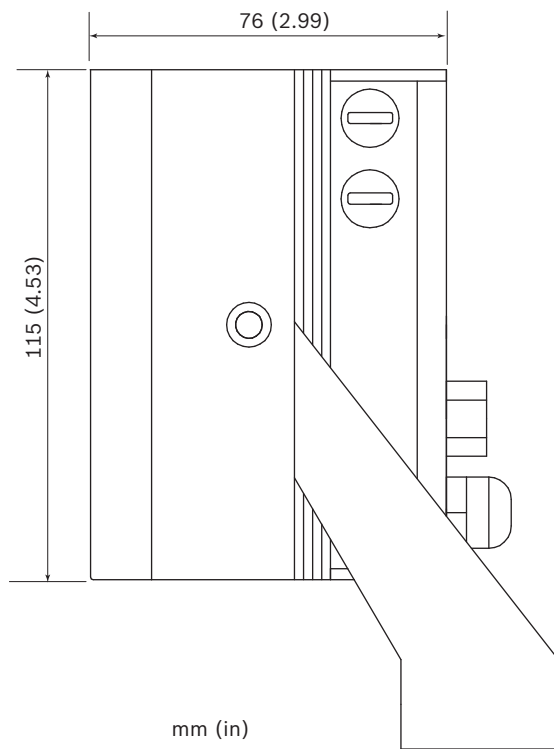
Certifications and approvals

Standards	Type
CE-EMC	EN 55024 (IT equipment - Immunity)
	EN 55032 (IT equipment - emissions)

Standards	Type
CE-EMC	EN 61547 (Lighting-Immunity)
	EN 55015 (Lighting-Emission)
	EN 62493(Lighting EMF)
	EN 50130-4 (Alarm EMC)
Safety	
CE-LVD	EN-60598-1 (Luminaires-General)
	EN-60598-2-1 (Luminaires)
LED	EN 62471 Risk group 2 (LED safety)
Environmental	IEC / EN 60529 IP66
	IEC / EN 62262 IK09
	EN50130-5 Class IV (Alarm-environmental)

Standards	Type
	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	Regulatory compliance/quality marks
Europe	CE

Installation/configuration notes

Dimensions

mm (in)

Technical specifications

Power

Power	
Power supply	Power-over-Ethernet (PoE+) (IEEE 802.3at compliant)
Power consumption	26 W

Optical

Optical	
Wavelength	850 nm or 940 nm
IR control	Adjustable IR intensity (0% to 100%)

Optical	
Day/night switch	Photocell, sensitivity adjustable (20 lx to 70 lx)
Beam angles	10° (circular), 20°, 30°, 60°, 80°, and 95° (eliipticals)

Range 850 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10º	220 m (722 ft)	38 m (126 ft)
20°	150 m (492 ft)	53 m (174 ft)
30º	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)
95º	35 m (115 ft)	76 m (251 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10º	135 m (443 ft)	24 m (77 ft)
20°	80 m (262 ft)	28 m (93 ft)
30º	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)
95º	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	1m with connector
Dimensions (W x H x D)	110 x 115 x 76 mm (4.33 x 4.53 x 2.99 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 ℃ to +50 ℃ (-58 ℉ to +122 ℉)
Protection	IP66

Ordering information

NIR-50850-MRP Illuminator, 850nm, medium range, PoE +
Medium range IR illuminator powered by PoE+
850 nm
Order number **NIR-50850-MRP**

NIR-50940-MRP Illuminator, 940nm, medium range, PoE +
Medium range IR illuminator powered by PoE+

940 nm
Order number **NIR-50940-MRP**

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**