

## IR Illuminator 5000 LR



The infrared illuminator provides covert or semi-covert lighting for long-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 or 24 VAC 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.

### Certifications and approvals

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

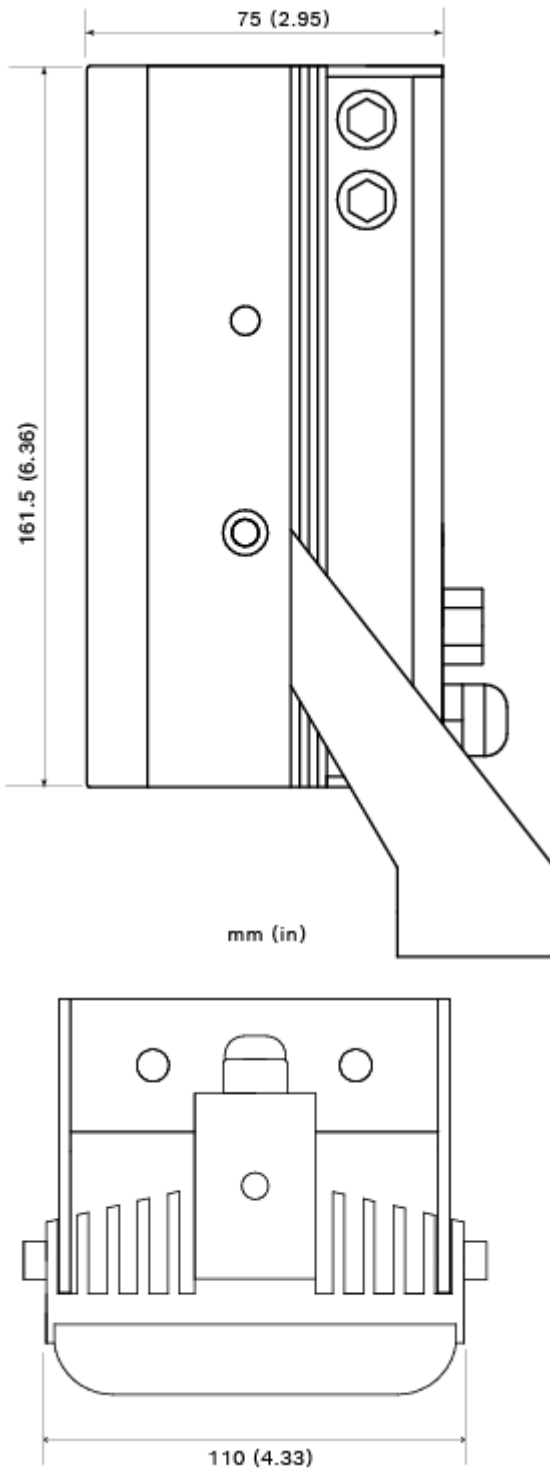


- ▶ Integrated adjustable photocell
- ▶ Adjustable IR intensity
- ▶ Interchangeable beam pattern diffusers to match beam to camera
- ▶ Telemetry input and photocell output for external switching
- ▶ Self-cleaning lens coating technology

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)
<b>USA cULus</b>	EN 50581 RoHS,
	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
<b>Region</b>	
<b>Regulatory compliance/quality marks</b>	
Europe	CE
USA	UL

**Installation/configuration notes**

**Dimensions**



**Technical specifications**

Power	
Power supply	12 to 32 VDC or 24 VAC ±10%
Power consumption	39 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°	268 m (881 ft)	47 m (154 ft)
20°	183 m (640 ft)	65 m (212 ft)
30°	134 m (440 ft)	72 m (236 ft)
60°	85 m (280 ft)	99 m (324 ft)
80°	61 m (200 ft)	102 m (336 ft)
95°	43 m (140 ft)	93 m (306 ft)

Range 940 nm		
Beam pattern diffuser	Achievable Distance*	HFOV
10°	165 m (540 ft)	29 m (95 ft)
20°	98 m (320 ft)	34 m (113 ft)
30°	79 m (260 ft)	42 m (139 ft)
60°	49 m (160 ft)	56 m (185 ft)
80°	37 m (120 ft)	61 m (202 ft)
95°	24 m (80 ft)	53 m (175 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 161.5 x 75 mm (4.33 x 6.36 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	1.4 kg (3.1 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-LR Illuminator, 850nm, long range

Long range IR illuminator

850 nm

Order number **IIR-50850-LR | F.01U.319.317**

#### IIR-50940-LR Illuminator, 940nm, long range

Long range IR illuminator

940 nm

Order number **IIR-50940-LR | F.01U.319.318**

### Accessories

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

Illuminator single L-bracket, black

Order number **IIR-MNT-SLB | F.01U.319.324**

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

Illuminator double L-bracket, black

Order number **IIR-MNT-DLB | F.01U.319.325**

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

Illuminator triple L-bracket, black

Order number **IIR-MNT-TLB | F.01U.319.326**

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

Illuminator pole mount bracket, black

Order number **IIR-MNT-PMB | F.01U.319.327**

#### 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 | F.01U.319.328**

#### 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 | F.01U.319.329**

#### 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 | F.01U.319.330**

### Services

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

12 months warranty extension

Order number **EWE-IIR850-IW | F.01U.346.347**

#### EWE-IIR940-IW 12mths wrty ext IR Illuminator 940 nm

12 months warranty extension

Order number **EWE-IIR940-IW | F.01U.346.364**

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