


BOSCH

Invented for life

AEGIS UFLED Intelligent-IR Illuminator



- ▶ **Patent-pending Constant Light technology ensures consistent illumination**
- ▶ **3D Diffuser technology (Black Diamond) delivers even illumination designed specifically for CCTV**
- ▶ **Enables the optimum nighttime performance of analog and megapixel cameras, IP platforms, and video analytics**
- ▶ **Reduced power consumption for a greener, more environmentally friendly solution with lower operating costs**

AEGIS UFLED, the world's first Intelligent-IR illuminator combines innovations in infrared technology and design to deliver absolute performance in night vision surveillance.

Aegis illuminators feature Constant Light technology, which automatically controls and adjusts light output to compensate for LED degradation and temperature changes. LED degradation results in poor light output, reduced image quality, and reduced illumination range. The Constant Light (patent-pending) technology maintains a constant level of light throughout the life of the illuminator, thus overcoming this performance-related issue identified by security consultants, installers, and end users alike.

3D Diffuser technology (Black Diamond) enables increased surveillance range, wider beam patterns, and evenly illuminated nighttime surveillance images. Specifically designed for energy efficient operation, Aegis powers directly from any 12 to 24 VDC or 24 VAC supply for faster, flexible, cost effective installations.

Aegis UFLED has a robust, aluminum construction with acrylic front fascia and works even in harsh environments – guaranteed. It is IP67 rated and has an impressive temperature rating of -50 °C to +50 °C (-58 °F to +122 °F).

Functions

Even illumination

- 3D diffuser technology eliminates hotspots in the foreground and underexposed backgrounds
- Delivers even illumination designed specifically for CCTV
- Dramatically improves nighttime imaging, reducing noise and increasing video signal
- Even illumination reduces bit rate when used with encoding and digital recording systems, thus lowering storage requirements

Controlled by Constant Light technology

- Maintains a constant level of lighting performance for the life of the illuminator
- Maintains a constant level of lighting performance when operated at varying ambient temperatures
- Extended lifetime (typical lifetime 10 years)

Installer friendly installation features

- Low voltage input to the illuminator for safe installation
- Illuminator link port allows one illuminator to switch all others in a master/slave configuration
- Dual-mode camera port allows color/mono control from or to the camera
- Easy connection using dedicated cables

High Efficiency Surface Mount LEDs

- Industry-leading thermal management and super high-efficient LED's deliver maximum illumination

Certifications and Approvals

Region	Certification
Europe	CE
USA	FCC + UL

Technical Specifications

Illuminator

LEDs	High efficiency LED array with current limited integral power circuit
Number of LEDs	18 high efficiency surface mount LEDs
Wavelength	850 nm or 940 nm
Vertical angles	10° (UFLED10-xxx, UFLED20-xxx, UFLED30-xxx, UFLED60-xxx); 14° (UFLED95-xxx); or 17° (UFLED120-xxx)
Power consumption	26 to 45 W (45 W max power) Power consumption will vary over time due to the intelligent IR's optical output control which compensates for LED degradation and ambient temperature fluctuations
Input Voltage	12 to 24 VDC or 24 VAC, 50/60 Hz
Temperature Range	-50 °C to +50 °C (-58 °F to +122 °F) max on full power
Environment	IP67
Construction	Robust, aluminum construction with acrylic front fascia
Weight	1.4 kg (3.1 lb)
Dimensions	152 x 188 x 115 mm (6.0 x 7.4 x 4.5 in)
Color	Black anodized heat sink with black front fascia
Power Cable	Supplied with IP67 power connector and 5 m (16.4 ft) of connecting lead
Bracket	Wall mount U-bracket supplied
Warranty	5 years

Performance Ranges

Model	Horizontal angle	Achievable Distance*	Horizontal Field of View
UFLED10-8BD	10°	220 m (720 ft)	40 m (125 ft)
UFLED20-8BD	20°	150 m (490 ft)	55 m (175 ft)
UFLED30-8BD	30°	110 m (360 ft)	60 m (195 ft)
UFLED60-8BD	60°	70 m (230 ft)	80 m (265 ft)
UFLED95-8BD	95°	50 m (165 ft)	110 m (300 ft)
UFLED120-8BD	120°	35 m (115 ft)	120 m (400 ft)
UFLED10-9BD	10°	135 m (440 ft)	25 m (80 ft)
UFLED20-9BD	20°	80 m (260 ft)	28 m (100 ft)
UFLED30-9BD	30°	65 m (210 ft)	35 m (115 ft)
UFLED60-9BD	60°	40 m (130 ft)	45 m (145 ft)

Model	Horizontal angle	Achievable Distance*	Horizontal Field of View
UFLED95-9BD	95°	30 m (100 ft)	65 m (210 ft)
UFLED120-9BD	120°	20 m (65 ft)	70 m (230 ft)

* Actual illumination distance achieved is dependent on camera and lens characteristics.

Ordering Information

UFLED10-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 10°, 850 nm	UFLED10-8BD
UFLED20-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 20°, 850 nm	UFLED20-8BD
UFLED30-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 30°, 850 nm	UFLED30-8BD
UFLED60-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 60°, 850 nm	UFLED60-8BD
UFLED95-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 95°, 850 nm	UFLED95-8BD
UFLED120-8BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 120°, 850 nm	UFLED120-8BD
UFLED10-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 10°, 940 nm	UFLED10-9BD
UFLED20-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 20°, 940 nm	UFLED20-9BD
UFLED30-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 30°, 940 nm	UFLED30-9BD
UFLED60-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 60°, 940 nm	UFLED60-9BD
UFLED95-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 95°, 940 nm	UFLED95-9BD
UFLED120-9BD AEGIS Illuminator AEGIS Intelligent-IR UFLED illuminator, 120°, 940 nm	UFLED120-9BD
PSU-224-DC100 Universal Power Supply Universal Power Supply 2x24 VDC	PSU-224-DC100

Ordering Information

Accessories

EXMB.020B L-bracket L-Bracket Only, Heavy Duty, black	EXMB.020B
EXPB-3W-KIT Camera and IR Illuminator Wall-mount Kit Wall-mount kit including camera housing for IR Illuminators	EXPB-3W-KIT
UFLED-CI-5M Switching Cable 5 m (16.4 ft) remote telemetry or day/night switching cable for Aegis illuminators	UFLED-CI-5M
UFLED-CL-1M Link Cable 1 m (3.3 ft) telemetry link cable for Aegis illuminators	UFLED-CL-1M
PSU-224-DC100 Universal Power Supply Universal Power Supply 2x24 VDC	PSU-224-DC100
UPA-2450-50 Power Supply 220 VAC, 50 Hz, 24 VAC, 50 VA Out	UPA-2450-50
UPA-2450-60 Power Supply 120 VAC, 60 Hz, 24 VAC, 50 VA Out	UPA-2450-60

Americas:

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6258 5511
Fax: +65 6571 2698
apr.securitysystems@bosch.com
www.boschsecurity.com

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