

# AEGIS UFLED Intelligent-IR Illuminator

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 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)
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  
Order number **UFLED10-8BD**

#### UFLED20-8BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 20°, 850 nm  
Order number **UFLED20-8BD**

#### UFLED30-8BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 30°, 850 nm  
Order number **UFLED30-8BD**

#### UFLED60-8BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 60°, 850 nm  
Order number **UFLED60-8BD**

#### UFLED95-8BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 95°, 850 nm  
Order number **UFLED95-8BD**

#### UFLED120-8BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 120°, 850 nm  
Order number **UFLED120-8BD**

#### UFLED10-9BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 10°, 940 nm  
Order number **UFLED10-9BD**

#### UFLED20-9BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 20°, 940 nm  
Order number **UFLED20-9BD**

#### UFLED30-9BD AEGIS Illuminator

AEGIS Intelligent-IR UFLED illuminator, 30°, 940 nm  
Order number **UFLED30-9BD**

**UFLED60-9BD AEGIS Illuminator**

AEGIS Intelligent-IR UFLED illuminator, 60°, 940 nm  
Order number **UFLED60-9BD**

---

**UFLED95-9BD AEGIS Illuminator**

AEGIS Intelligent-IR UFLED illuminator, 95°, 940 nm  
Order number **UFLED95-9BD**

---

**UFLED120-9BD AEGIS Illuminator**

AEGIS Intelligent-IR UFLED illuminator, 120°, 940 nm  
Order number **UFLED120-9BD**

---

**Accessories**

**PSU-124-DC050 Universal Power Supply**

Universal Outdoor Power Supply, 120 to 240 VAC,  
50/60 Hz In; 24 VDC, 50 W Out  
Order number **PSU-124-DC050**

---

**PSU-224-DC100 Universal Power Supply**

Universal Power Supply 2x24 VDC  
Order number **PSU-224-DC100**

---

**UPA-2450-50 Power Supply, 220 V, 50 Hz**

Indoor, 220 VAC, 50 Hz In; 24 VAC, 50 VA Out  
Order number **UPA-2450-50**

---

**UPA-2450-60 Power Supply, 120 V, 60 Hz**

Indoor, 120 VAC, 60 Hz In; 24 VAC, 50 VA Out  
Order number **UPA-2450-60**

---

**EXMB.020B L-bracket**

L-Bracket Only, Heavy Duty, black  
Order number **EXMB.020B**

---

**EXPB-3-W-KIT Camera and IR Illuminator Wall-mount Kit**

Wall-mount kit including camera housing for IR  
Illuminators  
Order number **EXPB-3-W-KIT**

---

**UFLED-CL-1M Link Cable**

1 m (3.3 ft) telemetry link cable for Aegis illuminators  
Order number **UFLED-CL-1M**

---

**UFLED-CI-5M Switching Cable**

5 m (16.4 ft) remote telemetry or day/night switching  
cable for Aegis illuminators  
Order number **UFLED-CI-5M**

---

**Represented by:**

**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  
5617 BA 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 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

**China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

**America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com