


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

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|---|----------------------|
| 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 |

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