



UFLED Intelligent-IR[™]

powered by **CONSTANTLIGHT**[™] Technology

The new UFLED Intelligent-IR[™] illuminator powered by Constant-Light[™] represents an evolution in infrared technology from the recognized leader in active-infrared night vision. Incorporating precision engineered, patent pending technologies, UFLED is the first truly Intelligent Infrared Illuminator.

Main features include:

- **CONSTANTLIGHT**[™]
- **BLACKDIAMOND**[™]
- **POWERONBOARD**[™]

Black Diamond[™] is the 2007 winner of the Security Industry Association's Best New Video Device.



Performance Benefits

Constant-Light[™] (patent pending) Technology

- Compensates for LED degradation, a natural occurrence with all LED based illuminators to deliver a consistent level of lighting performance throughout the life of the illuminator making it the first truly Intelligent-Infrared[™] illuminator

Black Diamond[™] (patent pending) Infrared Technology

- High Fidelity[™] Even Illumination balances scene foreground and background for outstanding image quality
- Provides up to 720ft (220m) of infrared illumination for increased range of surveillance and up to 120° horizontal beam widths for some of the most complete area coverage of any illuminator.

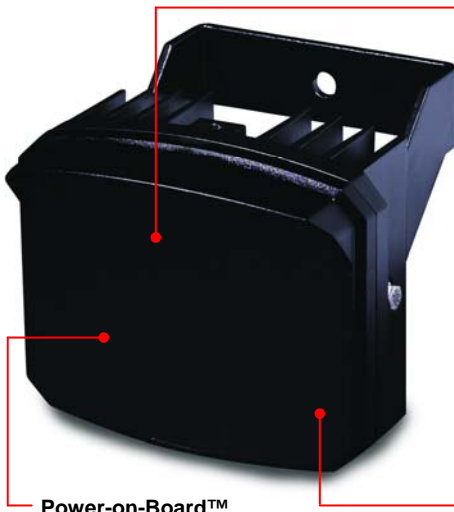
Power-on-Board[™]

- Built in 12VDC / 24VAC power circuit built into the illuminator allowing direct powering of the unit

Other benefits

- 5 Year Warranty for guaranteed long life and infrared performance
- Surface Mount Technology LEDs for improved optical output efficiency, improved thermal management, extended LED life and increased operational reliability over conventional LEDs
- Built-in photocell, remote telemetry and camera day/night switching
- IP67 rated

Key Attributes



Constant Light™ (patent pending) Technology

FEATURES

- Onboard microprocessor that automatically compensates for LED degradation ensuring a consistent light level on the scene making it the first truly Intelligent Infrared illuminator

BENEFITS

- Maintains consistent level of infrared image quality
- Maintains consistent level of infrared performance at varying ambient temperatures
- Continues to deliver the specified infrared range
- Lower operating costs and reduced initial input power consumption

Power-on-Board™

FEATURES

- Regulated low power input circuit allows illuminator to be powered direct from a 12VDC / 24VAC supply

BENEFITS

- Reduced installation costs
- Easy quick installations
- No high voltage power required, allowing reduced electrical installation costs
- No unsightly installations where multiple power supplies are required
- Reduced power consumption for lower running costs and more environmentally friendly lighting solution

Black Diamond™ (patent pending) Infrared Technology

FEATURES

- Even Illumination balances scene foreground and background
- Micro-Refraction Lens™ technology dramatically increases both the range and horizontal beam of illumination, reducing the required number of illuminators
- Superior light management increases operational efficiency, reducing wasted light to zero and minimizing power consumption

BENEFITS

- Optimizes the performance of video analytics, megapixel and speed dome cameras
- Provides up to 720ft (220m) of infrared illumination
- Delivers up to 120° horizontal beam widths

Performance images

CONSTANTLIGHT™



Initial image: conventional infrared

Degraded image: conventional infrared

BLACKDIAMOND™



Black Diamond™ technology is precision engineered for High-Fidelity™ Even-Illumination, delivering outstanding night-time image quality and ensuring 24/7 effectiveness of video analytics, megapixel surveillance and other critical CCTV applications.

UFLED Intelligent-IR™ Integration

UFLED Intelligent-IR™ provides important imaging capabilities for integrated security systems.

Fixed Camera Systems: Combine UFLED Intelligent-IR™ with EX18 housing, FMX800 Day/Night camera and wall mount bracketry. Integrate with video analytics for automated video-based intrusion detection.

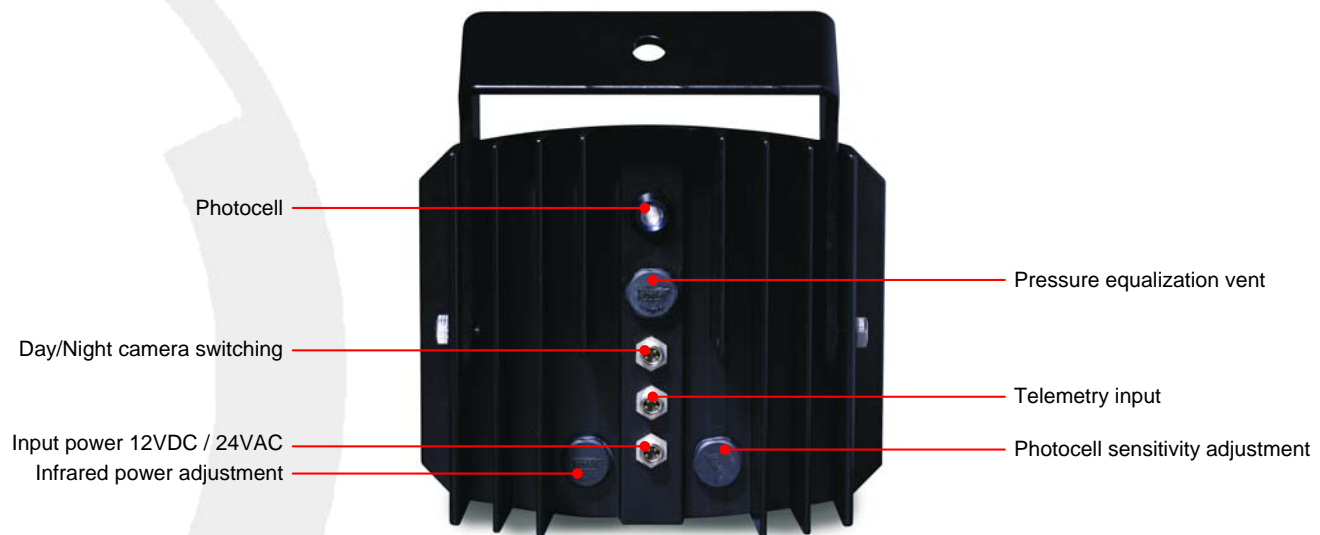
PT Motors: Combine UFLED Intelligent-IR™ with housing, FMX800 Day/Night camera, zoom lens and pan-tilt motor for a powerful, versatile pan-tilt-zoom system that delivers over 700ft High-Fidelity™ night vision.

Speed Domes: Combine UFLED Intelligent-IR™ with Moondance® or PX100 speed dome for uncompromised night-time pan-tilt zoom surveillance.

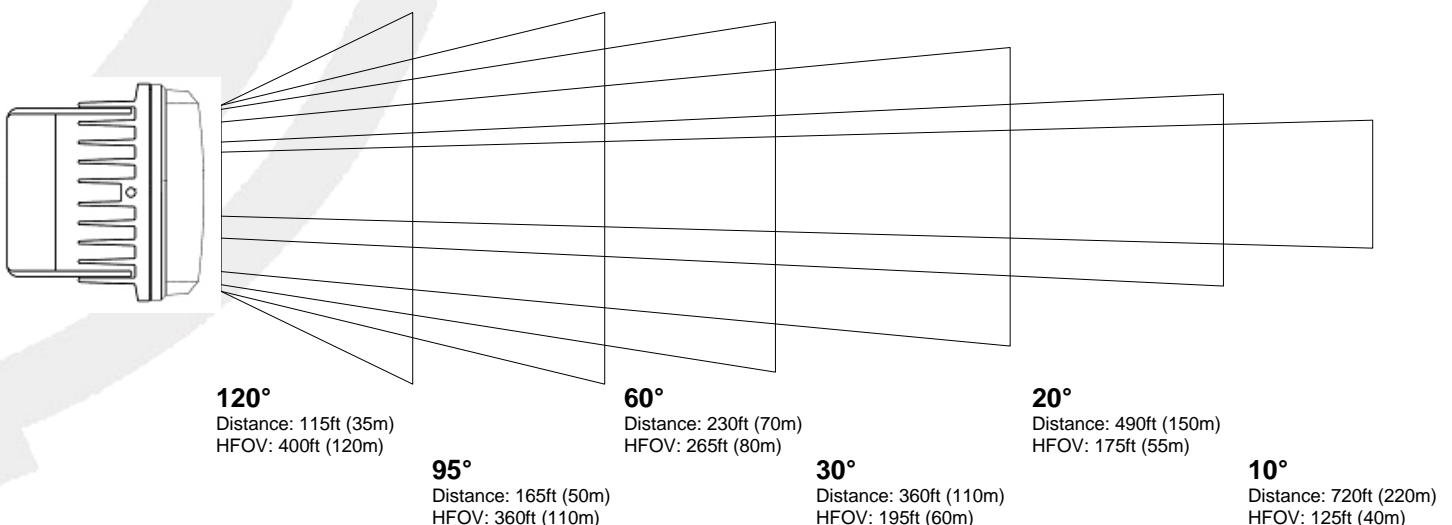


UFLED shown with EX18 housing (EXPB-3-UF performance bundle)

Control options

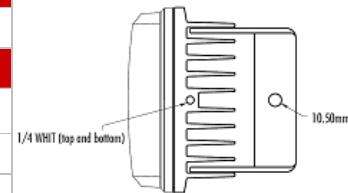
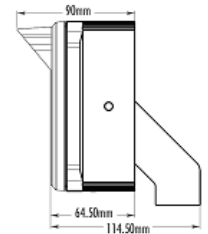
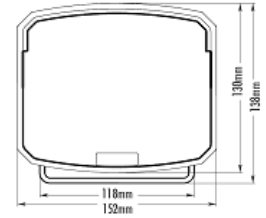


Performance ranges



Specifications

UFLED Intelligent-IR™			
Illuminator			
LEDs	850nm Black Diamond™ Night Vision		
Average Life	> 5 years guaranteed, typical 10 years		
Temperature Range	+50°C (122°F) to -50°C (-58°F) max on full power		
Construction	Robust, aluminium construction with acrylic front fascia		
Colour	Black anodized heat sink with black front fascia		
Dimensions	152mm x 130mm x 90mm [6.0" x 5.1" x 3.5"]		
Weight	3.1lbs 1.4Kg		
Cable Length	Supplied with IP67 power connector with 5m [16ft] of connecting lead (10m [32ft] and 15m [49ft] lengths available on request)		
Bracket	Wall mount u-bracket included		
Power Consumption	26- 45W (45W 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.		
Environmental	IP67		
Power Supply			
No power supply required. 12-40 VDC or 24 VAC +/- 30% direct to the illuminator.			
Approximate Performance Ranges (as tested by Derwent Night Vision Laboratories, UK)			
Model	Beam Pattern	Tested Distance	Horizontal FOV
UFLED850.10BD	10°	720ft 220m	125ft 40m
UFLED850.20BD	20°	490ft 150m	175ft 55m
UFLED850.30BD	30°	360ft 110m	195ft 60m
UFLED850.60BD	60°	230ft 70m	265ft 80m
UFLED850.95BD	95°	165ft 50m	360ft 110m
UFLED850.120BD	120°	115ft 35m	400ft 120m
Note: Achievable distance based on a 20dB s/n ratio using a 1/2" Ex-View CCD and F1.4 lens aperture			
Optional Accessories (order separately)			
EXMB.011	Twin Illuminator Adaptor Bracket		
EXMB.015	Pole Mount Adaptor		
EXMB.020	Versatile L-Bracket		
UFLED-CI-5M	16.4ft (5m) remote telemetry or day-night switching cable		
UFLED-CL-1M	3.3ft (1m) telemetry link cable		


Part Numbers
