



This luminaire has been approved as dark-sky friendly by the International Dark-Sky Association.

DCRI Performance Parameters at 850nm

Detection	200ft (60m)
Classification	150ft (45m)
Recognition	100ft (30m)
Identification	50ft (15m)

EX80 Infrared Imager[™]

powered by **BLACKDIAMOND**[™] Technology

The EX80 is a patented dual-sensor, dual-lens, Infrared Imager[™] that delivers exceptional color performance by day and award-winning night vision for important applications in 24/7 surveillance.

Building from its patented Integrated Day-Night[™] design, the new EX80 Infrared Imager[™] combines field-proven optics and ground-breaking Black Diamond[™] technology for High-Fidelity[™] night vision imaging, the most advanced level of night vision performance available today.

Capable of fulfilling all four DCRI surveillance levels (Detection, Classification, Recognition and Identification), the EX80 provides effective 24/7 imaging across a wide range of applications including commercial and residential surveillance.

Performance Benefits

- Absolute performance in daytime color imaging and active-infrared night vision, completely eliminating focus shift, IR bleed and other color distortions
- Powered by Black Diamond[™] infrared technology for Detection-level imaging to 200ft (60m)
- Packed with installer-friendly enhancements for simple, fast and easy installations including cable-managed pan-tilt bracket, captive screws and easy-access sliding optical chassis
- Exceptional image quality for effective 24/7 performance across a wide variety of surveillance applications

Key Attributes



Black Diamond[™] High Fidelity[™] Night Vision

- Award-winning Black Diamond[™] technology eliminates "hotspot" foregrounds and under-exposed backgrounds
- Detection-level imaging at 200ft (60m)
- Enables effective 24/7 operation across a wide variety of surveillance applications

Patented Dual Sensor Integrated Day Night[™] Design

- 480 TVL 1/3" color SuperHAD CCD for outstanding daytime color
- 420 TVL 1/3" LXR CCD for award-winning night vision
- Completely eliminates focus shift, IR bleed and other image distortions typical in conventional night vision cameras

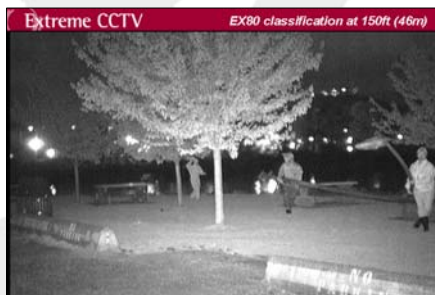
Installer-Friendly Features

- Sliding optical chassis for fast, easy-access lens and CCD adjustments
- Captive screws
- Adjustable infrared intensity and photocell sensitivity
- NEMA4 weather-sealed housing
- 4-9mm varifocal, auto-iris lenses
- Cable-managed wall bracket, pan-tilt adjustable

DCRI Performance

Extreme CCTV Infrared Imagers[™] are tested for performance to DCRI surveillance levels, a standard developed originally by John Johnson in his foundational work for the United States Army Night Vision lab. Conformance to Johnson's Criteria ensure that Extreme's cameras deliver outstanding video at any one of the four levels of surveillance shown below assuring security specifiers the broadest range of capability.

Performance images



The EX80 is capable of fulfilling all four DCRI surveillance levels (Detection, Classification, Recognition and Identification). **Image above shows Classification-level imaging at 150ft (45m).**



Conventional IR Illumination
Background under-exposed.
Foreground over-exposed.



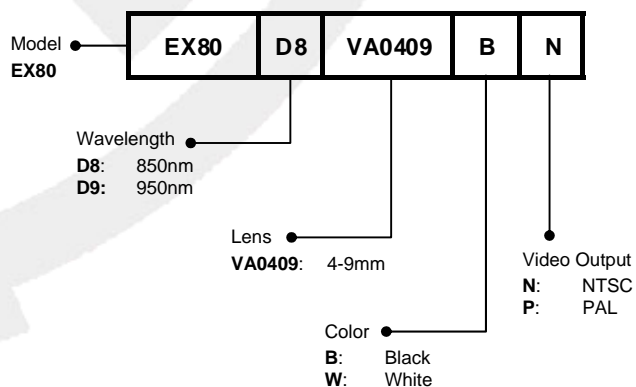
Black Diamond[™] IR Illumination
High-Fidelity[™] performance ensures a photonicallly balanced image.

Specifications

EX80 Infrared Imager™		
	C5 Daytime Sensor	SX3 Night-Time Sensor
CCD	1/3" Sony High Resolution CCD	1/3" LXR CCD
Effective Pixels (NTSC)	NTSC: 768 (H) x 494 (V)	EIA: 510 (H) x 492 (V)
Effective Pixels (PAL)	PAL: 752 (H) x 582 (V)	CCIR: 500 (H) x 582 (V)
Resolution	480 TVL	420 TVL
S/N Ratio	Greater than 48 dB	Greater than 50 dB
Daytime Sensitivity	1 Lux @ F2	0.05 Lux @ F2
Night-time Sensitivity	0.0 Lux - works in total darkness	
Lens Options	4-9mm varifocal auto-iris	
Gamma	0.45	
Video Output	1 Vp-p, 75 Ohms	
Day-Night Switching	Photocell-controlled, automatic	
Photocell	Automatic, sensitivity adjustable	
LEDs	Black Diamond™ High-Fidelity™ Infrared, intensity adjustable	
Wavelength	850nm (semi-covert) or *950nm (covert)	
Voltage Supply	12 VDC or 24 VAC	
Power Consumption	36 W max	
Construction	Robust aluminum casting	
Finish	Baked enamel finish, black standard	
Operational Range	-50°C to +50°C -58°F to +122°F	
Bracket	Cable managed wall bracket included	
Overall Dimensions	131mm (H) x 139mm (W) x 207mm (D) 5.2" (H) x 5.5" (W) x 8.2" (D)	
Weight	3.4 lbs 1.4 kg	
Environmental	NEMA4	

*Note: 74% distance loss from stated distances at 850nm

Part Numbers



Optional Accessories

EXPS.009	Power Supply, 120VAC / 24 VAC, 2.5A
EXMB.015	Pole Mount Adapter
EXMB.061	Pole Top Bracket
EXMB.033	Corner Mount Bracket
EXSH01B	Sunhood, black
EXMB.029B	Ceiling Mount Bracket