



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

DCRI Performance Parameters at 850nm

Detection	350ft (~100m)
Classification	300ft (90m)
Recognition	200ft (60m)
Identification	150ft (45m)

EX30 Infrared Imager[™]

powered by **BLACKDIAMOND**[™] Technology

The EX30 is a versatile single-sensor Infrared Imager[™] delivering outstanding color performance by day and award-winning night vision for critical 24/7 surveillance applications.

Building from its patented Integrated Day-Night[™] design, the new EX30 Infrared Imager[™] combines precision-engineered performance optics - including a 5-50mm IR-corrected lens - 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 EX30 provides effective 24/7 imaging for critical applications including perimeter surveillance, high value asset protection and force protection.

Performance Benefits

- Absolute high resolution 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 award-winning, High-Fidelity night vision that enables effective 24/7 imaging for critical applications including perimeter surveillance, high value asset protection and force protection.
- Precision engineered optics featuring a 5-50mm IR-corrected lens for a wide surveillance capability ranging from 350ft (~100m) Detection to 150ft (45m) Identification
- 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

Key Attributes



Black Diamond[™] High Fidelity[™] Infrared Technology

- Award-winning Black Diamond[™] technology eliminates "hotspot" foregrounds and under-exposed backgrounds
- Detection-level imaging at 350ft (~100m)
- Effective 24/7 surveillance for critical applications

Precision Engineered Performance Optics

- 550 TVL 1/3" LXR Mechanical Filter CCD for vivid daytime color and outstanding night vision performance
- 5-50mm IR-corrected lens delivers a wide surveillance range from 150ft (45m) to 350ft (~100m) for maximum imaging versatility
- IR-corrected lens eliminates focus shift and IR bleed

Installer-Friendly Features

- Sliding optical chassis for easy-optical adjustments
- Captive screws
- 5-50mm varifocal, auto-iris lens
- NEMA4 weather-sealed housing
- Adjustable infrared intensity and photocell sensitivity
- Cable-managed wall bracket

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 EX30 is capable of fulfilling all four DCRI surveillance levels (Detection, Classification, Recognition and Identification). **Image above shows Identification-level imaging at 150ft (45m).**



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



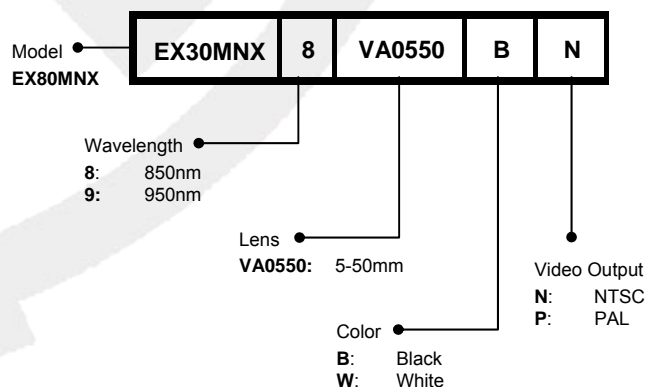
Black Diamond[™] IR Illumination
High-Fidelity[™] performance ensures a photonicallly balanced image.

Specifications

	EX30 Infrared Imager™
CCD	MX7 with Mechanical Filter technology
Effective Pixels (NTSC)	NTSC: 768 (H) x 494 (V)
Effective Pixels (PAL)	PAL: 752 (H) x 582 (V)
Resolution	550 TVL color / 570 TVL monochrome
S/N Ratio	Greater than 48dB (AGC off)
Daytime Sensitivity	0.02 Lux with F1.4 lens
Night-time Sensitivity	0 Lux with infrared (B/W)
Lens	IR corrected 5-50mm varifocal auto-iris, DC drive
Gamma	0.45
Video Output	1Vp-p, 75Ω
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 to 24 AC/DC
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