



## EX80 Infrared Imager



- ▶ Daytime color, active-infrared night vision
- ▶ No focus shift, IR bleed or other distortions
- ▶ Black Diamond infrared technology
- ▶ Detection-level imaging to 60 m (200 ft)
- ▶ Packed with installer-friendly enhancements

The EX80 is a 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.

### Functions

#### Black Diamond High Fidelity Night Vision

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

#### Patented Dual Sensor Integrated Day Night Design

- 480 TVL 1/3 in, color SuperHAD CCD for outstanding daytime color
- 420 TVL 1/3 in, 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 to 9 mm varifocal, auto-iris lenses
- Cable-managed wall bracket, pan-tilt adjustable

#### DCRI Performance

Our CCTV Infrared Imagers are tested for performance to DCRI surveillance levels. Conformance to these criteria ensure that our cameras deliver outstanding video at any one of the four levels of surveillance shown below, assuring security specifiers the broadest range of capability.

Parameters at 850 nm

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

**Technical Specifications****Video**

	C5 Daytime Sensor	SX3 Night-Time Sensor
CCD	1/3 in High Resolution CCD	1/3 in LXR CCD
Effective Pixels	NTSC: 768 x 494 (HxV)	EIA: 510 x 492 (HxV)
	PAL: 752 x 582 (HxV)	CCIR: 500 x 582 (HxV)
Resolution	480 TVL	420 TVL
S/N Ratio	Greater than 48 dB	Greater than 50 dB
Daytime Sensitivity	1 lux at F2	0.05 lux at F2
Night time Sensitivity	0.0 lux (works in total darkness)	
Lens Options	4 to 9 mm varifocal auto-iris	
Gamma	0.45	
Video Output	1 Vpp, 75 ohm	
Day-Night Switching	Photocell-controlled, automatic	
Photocell	Automatic, sensitivity adjustable	
LEDs	Black Diamond High-Fidelity Infrared, intensity adjustable	
Wavelength	850 nm (semi-covert) or 940 nm (covert)	

**Electrical**

Voltage Supply 12 VDC or 24 VAC

Power Consumption 36 W max

**Mechanical**

Construction Robust aluminum casting

Finish Baked enamel finish, black standard

Bracket Cable managed wall bracket included

Dimensions 131 x 139 x 207 mm (H x W x D)  
5.2 x 5.5 x 8.2 in (H x W x D)

Weight 1.4 kg (3.4 lb)

**Environmental**

Operation Temperature Range -50 °C to +50 °C (-58 °F to +122 °F)

Environment NEMA4

**Note** 74% distance loss from stated distances at 850 nm**Ordering Information****EX80D8V0409BN-N Infrared Imager** **EX80D8V0409BN-N**  
Day/Night dual sensor, VA4-9 mm, 850 nm  
BlackDiamond 40 deg, black, NTSC**EX80D8V0409BN-P Infrared Imager** **EX80D8V0409BN-P**  
Day/Night dual sensor, VA4-9 mm, 850 nm  
BlackDiamond 40 deg, black, PAL**EX80D9V0409BN-N Infrared Imager** **EX80D9V0409BN-N**  
Day/Night dual sensor, VA4-9 mm, 940 nm  
BlackDiamond 40 deg, black, NTSC**EX80D9V0409BN-P Infrared Imager** **EX80D9V0409BN-P**  
Day/Night dual sensor, VA4-9 mm, 940 nm  
BlackDiamond 40 deg, black, PAL**Accessories****EXPS.009 VAC Power Supply** **EXPS.009**  
Power supply 24 VDC, 2500 mA RoHS**EXMB.015B Pole Mount Adapter Bracket** **EXMB.015B**  
Pole Mount Adapter, black

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