

# EX80-IP Infrared Imager

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Invented for life



- ▶ Intelligent Video Analysis (IVA)
- ▶ Black Diamond High Fidelity Infrared Technology
- ▶ Precision Engineered Performance Optics
- ▶ High Performance Video Encoder
- ▶ Rugged All-Weather Construction

The EX80-IP is a dual-sensor infrared imager featuring a powerful processor for Intelligent Video Analysis (IVA), IP infrared imaging design and detection-level night-time imaging up to 200 ft for critical 24/7 surveillance applications.

For exceptional performance both day and night, the EX80-IP infrared imager incorporates dual-sensor design and combines it with award-winning Black Diamond infrared illumination. Together, they are jointly calibrated to provide High-Fidelity night vision imaging.

The EX80-IP provides outstanding day and night imaging performance with lower bandwidth network impact than standard IP cameras for important applications in commercial, residential and industrial surveillance applications.

## Functions

### Intelligent Video Analysis (IVA)

- On-board video content analysis monitors scene activity and flags user-defined events such as alarms (additional license required)

### Black Diamond High Fidelity Infrared Technology

- Award-winning Black Diamond technology eliminates hotspot foregrounds and underexposed backgrounds
- Detection-level imaging at 60 m (200 ft)

- Reduces image noise and enables better compression, reducing bit rates and enhancing network stability
- Enables effective night-time performance of video analytics

### Precision Engineered Performance Optics

- 480 TVL 1/3-inch color SuperHAD CCD for outstanding daytime color
- 420 TVL 1/3-inch LXR CCD for award-winning night vision
- Infrared-corrected lens eliminates focus shift and infrared bleed

### High Performance Video Encoder

- MPEG-4 and MJPEG at 30fps, full resolution
- Tri-stream video allows for simultaneous high resolution viewing with high efficiency storage (or vice versa)
- Supported by a wide range of VMS and NVR solutions

### Rugged All-Weather Construction

- Weather-sealed housing design to NEMA 4X
- Cable-managed wall bracket
- Sliding optical chassis for easy-optical adjustments

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

Sensor	C5 Hi-Res Color CCD	SX3 Monochrome 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)	

#### Night Vision Ranges\*

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

#### Interfaces

Ethernet	10/100 Base-T RJ45
Analog	PAL or NTSC BNC

#### IP

Protocols	Telnet, RTP, HTTP(S), ARP, TCP, UDP, IP, ICMP, DHCP, IGMPv2/v3, SNMP, 802.1x
Compression	MPEG-4 SP and MJPEG, up to 30 frames per second, tri-stream selectable

Frame Rate	1-30 FPS programmable (full motion)	
Bandwidth	Configurable from 9.6 Kbps to 6 Mbps	

Resolution and Frame Rates	PAL	NTSC
4CIF: 25/30 IPS	704 x 576	704 x 480
2CIF: 25/30 IPS	704 x 288	704 x 240
half D1: 25/30 IPS	352 x 576	352 x 480
CIF: 25/30 IPS	352 x 288	352 x 240
QCIF: 25/30 IPS	176 x 144	176 x 120

#### 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	NEMA 4X compliant

\* For 940 nm, 50-60% distance loss from stated distances at 850 nm

#### Ordering information

##### NEI-808V04-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 850 nm IR, 4-9 mm, black, NTSC  
Order number **NEI-808V04-21B**

##### NEI-808V04-11B IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 850 nm IR, 4-9 mm, black, PAL  
Order number **NEI-808V04-11B**

##### NEI-809V04-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 940 nm IR, 4-9 mm, black, NTSC  
Order number **NEI-809V04-21B**

**NEI-809V04-11B IP Infrared Imager**

IP IR Imager, day/night dual sensor, 480/420 TVL,  
940 nm IR, 4-9 mm, black, PAL  
Order number **NEI-809V04-11B**

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**NEI-808V04-21W IP Infrared Imager**

IP IR Imager, day/night dual sensor, 480/420 TVL,  
850 nm IR, 4-9 mm, white, NTSC  
Order number **NEI-808V04-21W**

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**NEI-808V04-11W IP Infrared Imager**

IP IR Imager, day/night dual sensor, 480/420 TVL,  
850 nm IR, 4-9 mm, white, PAL  
Order number **NEI-808V04-11W**

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**NEI-809V04-21W IP Infrared Imager**

IP IR Imager, day/night dual sensor, 480/420 TVL,  
940 nm IR, 4-9 mm, white, NTSC  
Order number **NEI-809V04-21W**

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**NEI-809V04-11W IP Infrared Imager**

IP IR Imager, day/night dual sensor, 480/420 TVL,  
940 nm IR, 4-9 mm, white, PAL  
Order number **NEI-809V04-11W**

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**Accessories**

**EXMB.061 Pole Top Bracket**

Stainless Pole Top Bracket  
Order number **EXMB.061**

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**EXMB.015B Pole Mount Adapter Bracket**

Pole Mount Adapter, black  
Order number **EXMB.015B**

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**EXMB.015W Pole Mount Adapter Bracket**

Pole Mount Adapter Bracket, white  
Order number **EXMB.015W**

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**EXMB.017B Wall Mount Adapter Bracket**

Wall Mount Adapter, Black  
Order number **EXMB.017B**

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**EXMB.017W Wall Mount Adapter Bracket**

Wall Mount Adapter, White  
Order number **EXMB.017W**

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**EXMB.029B Ceiling Mount Bracket**

Ceiling Mount Bracket, Black  
Order number **EXMB.029B**

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**EXMB.029W Ceiling Mount Bracket**

Ceiling Mount Bracket, white  
Order number **EXMB.029W**

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**EXSH.01B Sunhood**

Sunhood, black  
Order number **EXSH01B**

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**EXPS.009 VAC Power Supply**

Power supply 24 VAC, 2500 mA RoHS  
Order number **EXPS.009**

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**PSU-230-24 Power Supply**

Power Supply, 230 VAC / 24 VAC, 50 W  
Order number **PSU-230-24**

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**EXSH.01W Sunhood**

Sunhood, white  
Order number **EXSH01W**

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**Software Options**

**NEA-IP200B-FS3**

Extreme-Series IVA 3.0 VCA software license  
Order number **NEA-IP200B-FS3**

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