



EX80-IP Infrared Imager



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 NEMA4X-rated 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)

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

- 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

- Field-proven NEMA4X weather-sealed housing
 - 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
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 NEMA4

**) 940 nm has 74% 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

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

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

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

NEI-809V04-11B

NEI-808V04-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 850 nm IR, 4-9 mm, white, NTSC

NEI-808V04-21W

NEI-808V04-11W IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 850 nm IR, 4-9 mm, white, PAL

NEI-808V04-11W

NEI-809V04-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 940 nm IR, 4-9 mm, white, NTSC

NEI-809V04-21W

NEI-809V04-11W IP Infrared Imager

IP IR Imager, day/night dual sensor, 480/420 TVL, 940 nm IR, 4-9 mm, white, PAL

NEI-809V04-11W

Ordering Information

Accessories

EXMB.015B Pole Mount Adapter Bracket Pole Mount Adapter, black	EXMB.015B
EXMB.015W Pole Mount Adaptor Bracket Pole Mount Adaptor Bracket, white	EXMB.015W
EXMB.017B Wall Mount Adapter Bracket Wall Mount Adapter, Black	EXMB.017
EXMB.017W Wall Mount Adapter Bracket Wall Mount Adapter, White	EXMB.017W
EXMB.029B Ceiling Mount Bracket Ceiling Mount Bracket, Black	EXMB.029B
EXMB.029W Ceiling Mount Bracket Ceiling Mount Bracket, white	EXMB.029W
EXMB.061 Pole Top Bracket Stainless Pole Top Bracket	EXMB.061
EXPS.009 VAC Power Supply Power supply 24 VAC, 2500 mA RoHS	EXPS.009
EXSH.01B Sunhood Sunhood, black	EXSH01B
PSU-230-24 Power Supply Power Supply, 230 VAC / 24 VAC, 50 W	PSU230-24
EXSH.01W Sunhood Sunhood, white	EXSH01W
Software Options	
NEA-IP200B-FS3 Extreme-Series IVA 3.0 VCA software license	NEA-IP200B-FS3

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