



EX30-IP Infrared Imager



The EX30 is a single-sensor infrared imager for outdoor day/night surveillance applications. The EX30 features a 5-50 mm lens, the longest identification range of the infrared imagers at telephoto (150 ft), Black Diamond infrared illumination and a powerful processor for Intelligent Video Analysis (IVA). The EX30 also provides detection-level night-time imaging up to 350 ft, resulting in outstanding versatility for critical 24/7 surveillance applications.

The EX30-IP Infrared Imager includes a 5-50mm IR-corrected lens and Black Diamond infrared illumination, calibrated to provide High-Fidelity night vision imaging.

The NEMA4X-rated EX30 provides outstanding day and night imaging performance with lower bandwidth network impact than standard IP cameras. Ideal for critical applications such as force protection, perimeter surveillance and public area surveillance.

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

- Black Diamond technology eliminates hotspot foregrounds and underexposed backgrounds

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

- Extended range infrared to deliver detection-level imaging at 100 m (350 ft)
- Reduces image noise and enables better compression, reducing bit rates and enhancing network stability
- Enables effective night-time performance of video analytics

Rugged All-Weather Construction

- Field-proven NEMA4X weather-sealed housing
- Cable-managed wall bracket
- Sliding optical chassis for easy-optical adjustments

High Performance Video Encoder

- MPEG-4 and MJPEG at 30 fps, 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

Precision Engineered Performance Optics

- 540 TVL hi-resolution day/night CCD for vivid daytime color and outstanding night vision
- 5-50 mm infrared-corrected lens delivers a wide surveillance range from 45 m (150 ft) to 100 m (350 ft) for maximum imaging versatility
- Infrared-corrected lens eliminates focus shift and infrared bleed

Parameters at 850 nm

Detection	100 m (350 ft)
Classification	90 m (300 ft)
Recognition	75 m (250 ft)
Identification	45 m (150 ft)

Technical Specifications

Video

EX30 IP Infrared Imager

Sensor	MX4 Hi-resolution day/night CCD
Effective Pixels (H x V)	NTSC: 768 x 494
Effective Pixels (H x V)	PAL: 752 x 582
Resolution	540 TVL color / 540 TVL monochrome
S/N Ratio	Greater than 48 dB (AGC off)
Daytime Sensitivity	0.02 Lux at F1.4
Night time Sensitivity	0 Lux - works in total darkness
Lens	IR corrected 5 to 50 mm varifocal auto-iris, DC drive
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)

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

Night Vision Ranges

Detection	100 m (350 ft)
Classification	90 m (300 ft)
Recognition	60 m (200 ft)
Identification	45 m (150 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 (H x V)	NTSC (H x V)
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	NEMA4X

Ordering Information

NEI-308V05-21B IP Infrared Imager **NEI-308V05-21B**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 850 nm IR, 5-50 mm, black, NTSC

NEI-308V05-11B IP Infrared Imager **NEI-308V05-11B**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 850 nm IR, 5-50 mm, black, PAL

NEI-308V05-21W IP Infrared Imager **NEI-308V05-21W**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 850 nm IR, 5-50 mm, white, NTSC

NEI-308V05-11W IP Infrared Imager **NEI-308V05-11W**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 850 nm IR, 5-50 mm, white, PAL

NEI-309V05-21B IP Infrared Imager **NEI-309V05-21B**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 940 nm IR, 5-50 mm, black, NTSC

NEI-309V05-11B IP Infrared Imager **NEI-309V05-11B**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 940 nm IR, 5-50 mm, black, PAL

NEI-309V05-21W IP Infrared Imager **NEI-309V05-21W**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 940 nm IR, 5-50 mm, white, NTSC

NEI-309V05-11W IP Infrared Imager **NEI-309V05-11W**
IP IR Imager, 1/3 in. extended day/night, 540/540 TVL, 940 nm IR, 5-50 mm, white, PAL

Ordering Information

Accessories

EXPS.009 VAC Power Supply Power supply 24 VAC, 2500 mA RoHS	EXPS.009
EXMB.015B Pole Mount Adapter Bracket Pole Mount Adapter, black	EXMB.015B
EXMB.061B Pole Top Bracket Stainless Pole Top Bracket	EXMB.061B
EXSH01B Sunhood Sunhood, black	EXSH01B
EXMB.029B Ceiling Mount Bracket Ceiling Mount Bracket, Black	EXMB.029B
PSU230-24 VAC Power Supply Power Supply, 230 VAC / 24 VAC, 50 W	PSU230-24

Software Options

NEA-IP200B-FS3 Extreme-Series IVA 3.0 VCA software license	NEA-IP200B-FS3
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