

EX30-IP Infrared Imager

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Invented for life



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

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 330 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 industry leading night vision imaging.

The 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 Infrared Technology

- Black Diamond technology eliminates hotspot foregrounds and underexposed backgrounds
- Extended range infrared to deliver detection-level imaging at 100 m (330 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

- Weather-sealed housing design to NEMA 4X
- 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 (330 ft) for maximum imaging versatility

- Infrared-corrected lens eliminates focus shift and infrared bleed

Parameters at 850 nm

Detection	100 m (330 ft)
Classification	90 m (300 ft)
Recognition	75 m (250 ft)
Identification	45 m (150 ft)

Technical specifications

Video

	EX30 IP Infrared Imager
Sensor	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 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 (330 ft)
Classification	90 m (300 ft)
Recognition	75 m (250 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 to 24 VDC or 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

Ordering information

NEI-308V05-21B IP Infrared Imager

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

NEI-308V05-11B IP Infrared Imager

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

NEI-308V05-21W IP Infrared Imager

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

NEI-308V05-11W IP Infrared Imager

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

NEI-309V05-21B IP Infrared Imager

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

NEI-309V05-11B IP Infrared Imager

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

NEI-309V05-21W IP Infrared Imager

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

NEI-309V05-11W IP Infrared Imager

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

Accessories

EXPS.009 VAC Power Supply

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

EXMB.015B Pole Mount Adapter Bracket

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

EXMB.061 Pole Top Bracket

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

EXMB.017B Wall Mount Adapter Bracket

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

EXMB.017W Wall Mount Adapter Bracket

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

EXMB.015W Pole Mount Adaptor Bracket

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

EXSH.01B Sunhood

Sunhood, black
Order number **EXSH01B**

EXMB.029B Ceiling Mount Bracket

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

EXMB.029W Ceiling Mount Bracket

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

PSU-230-24 Power Supply

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

EXSH.01W Sunhood

Sunhood, white
Order number **EXSH01W**

Software Options

NEA-IP200B-FS3

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

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