

EX82-IP Infrared Imager

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

The EX82-IP is a dual-sensor infrared imager designed for outstanding daytime imaging and absolute performance in night-time imaging. Featuring a powerful processor for video analysis using Intelligent Video Analysis (IVA) and IP infrared imaging design, the EX82-IP provides detection-level night-time imaging up to 250 ft for critical 24/7 surveillance applications.

For exceptional performance both day and night, the EX82-IP infrared imager incorporates dual-sensor design and combines it with Black Diamond infrared illumination technology. Together, they are jointly calibrated to provide High-Fidelity night vision imaging. The EX82-IP provides outstanding day and night imaging performance with lower bandwidth network impact than standard IP cameras 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

- Award-winning Black Diamond technology eliminates hotspot foregrounds and underexposed backgrounds
- Detection-level imaging at 75 m (250 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

- 500 TVL Hi-resolution Color CCD for outstanding daytime color
- 540 TVL Hi-resolution Monochrome CCD for award-winning night vision
- Completely eliminates focus shift, IR bleed and other image distortions typical in conventional night vision cameras

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

Rugged All-Weather Construction

- Weather-sealed housing design to NEMA 4X
- Cable-managed wall bracket

- Sliding optical chassis for easy-optical adjustments

Detection	75 m (250 ft)
Classification	60 m (200 ft)
Recognition	45 m (150 ft)
Identification	25 m (75 ft)

Technical specifications

Video

Sensor	C7 Hi-resolution Color CCD	SX7 Hi-resolution monochrome CCD
Effective Pixels (H x V)	NTSC: 768 x 494 PAL: 752 x 582	NTSC: 542 x 492 PAL: 542 x 582
Resolution	540 TVL	540 TVL
S/N Ratio	Greater than 48 dB	Greater than 50 dB
Daytime Sensitivity	2.7 lux at F1.4	0.01 lux at F1.2 (AGC on)
Night-time Sensitivity	0.0 lux (works in total darkness)	
Lens Options	4 to 9 mm or 9 to 22 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	70 m (250 ft)
Classification	65 m (200 ft)
Recognition	45 m (150 ft)
Identification	25 m (75 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 to 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
Dimension (H x W x D)	131 x 139 x 207 mm (5.2 x 5.5 x 8.2 in)
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



Notice

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

Ordering information

NEI-828V04-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL, 850 nm IR, 4-9 mm, black, NTSC
Order number **NEI-828V04-21B**

NEI-828V04-11B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL, 850 nm IR, 4-9 mm, black, PAL
Order number **NEI-828V04-11B**

NEI-829V04-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL, 940 nm IR, 4-9 mm, black, NTSC
Order number **NEI-829V04-21B**

NEI-829V04-11B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 4-9 mm, black, PAL
Order number **NEI-829V04-11B**

NEI-828V09-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
850 nm IR, 9-22 mm, black, NTSC
Order number **NEI-828V09-21B**

NEI-828V09-11B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
850 nm IR, 9-22 mm, black, PAL
Order number **NEI-828V09-11B**

NEI-829V09-21B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 9-22 mm, black, NTSC
Order number **NEI-829V09-21B**

NEI-829V09-11B IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 9-22 mm, black, PAL
Order number **NEI-829V09-11B**

NEI-828V04-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
850 nm IR, 4-9 mm, white, NTSC
Order number **NEI-828V04-21W**

NEI-828V04-11W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
850 nm IR, 4-9 mm, white, PAL
Order number **NEI-828V04-11W**

NEI-829V04-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 4-9 mm, white, NTSC
Order number **NEI-829V04-21W**

NEI-829V04-11W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 4-9 mm, white, PAL
Order number **NEI-829V04-11W**

NEI-828V09-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
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IP IR Imager, day/night dual sensor, 500/540 TVL,
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NEI-829V09-21W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 9-22 mm, white, NTSC
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NEI-829V09-11W IP Infrared Imager

IP IR Imager, day/night dual sensor, 500/540 TVL,
940 nm IR, 9-22 mm, white, PAL
Order number **NEI-829V09-11W**

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

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

EXMB.015W Pole Mount Adaptor Bracket

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

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.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**

EXMB.061 Pole Top Bracket

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

EXPS.009 VAC Power Supply

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

PSU-230-24 Power Supply

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

EXSH.01B Sunhood

Sunhood, black
Order number **EXSH01B**

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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