EX36N Night Vision
EX36Q Quattro
Seclusion Cell Camera

Key Features

- 45° tilt to view the ENTIRE room including underneath the camera itself
- Operates in total undetectable darkness
- Suicide-Resistant Compact Design
- 84 Infrared LED Illuminators
- 940 nm or 850 nm options
- 30 ft. (9 m) performance in total darkness (at 850 nm wavelength)
- Wide angle directional LEDs
- ¼" thick LEXAN windows
- Internal tilt device for camera adjustments
- IR-Optimized S300 – 1/3" CCD
- IR Intensity Adjustable
- Photocell Controlled
- Easy Lens Access
- Painted Steel Finish
- Vandal Resistant Screws
- Plug and Play Installation

Applications

- Night-time surveillance where normal lighting is prohibited
- Covert surveillance in a wide range of conditions
- Prison suicide cells
- Hospital recovery rooms
- Low-light computer rooms
- Backlight corrected surveillance

Certifications / Compliance

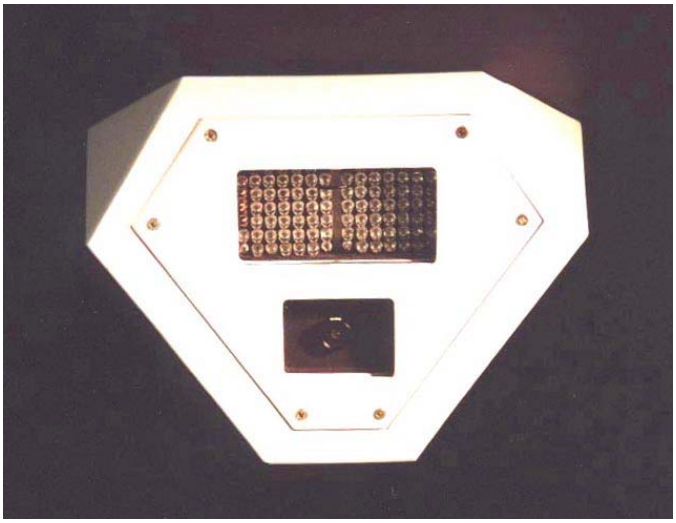
CSA-NRTL LR 113310

Class: 2226 02 /82 Commercial Video Equipment

Safety: CSA Std. C22.2 – Various Sections
UL 50 – Enclosures for Electrical Equipment
UL 2044 – Commercial CCTV Equipment

Proprietary: Patent Pending – U.S.P.T.O

Product Image



Product Description

A tough steel corner IDN™ camera with a sharp 45 degree tilt on its flush faceplate to provide an overall view in small rooms such as prison cells, hospital care rooms, suicide cells, sleep labs and elevator cabs. Toughened with a thicker faceplate and ¼" LEXAN, the EX36 is designed for the toughest of prison environments.

The smooth compact housing allows for tight installations without any exposed wiring, making this unit very difficult to vandalize. Separate windows for the camera lens and the LEDs allow for a perfect small-room picture without light rebound and greater installation versatility. Eighty-four (84) infrared emitting LED's provide light energy at 850nm or 940nm. A voltage and current control board controls LED light intensity while ensuring long life. A photocell allows automatic on/off infrared operation. Lenses are changeable. Cameras can be adjusted for tilt. Pre-harnessed connectors make for easy plug and play operation in 12 VDC or 24 VAC.

NX models offer superior performance.

The Quattro Series EX36Q allows for COLOR surveillance by day and infrared supported mono surveillance by night to maximize video information.

A key innovation in the EX36 is its detailing for an extremely tight fit into wall / ceiling corners. In a patented (pending) design that ensures snug, anchor-free installations, the two main angles are built to 93 degrees to compensate for room walls and ceilings that are not perfectly square.

Dealer/Distributor

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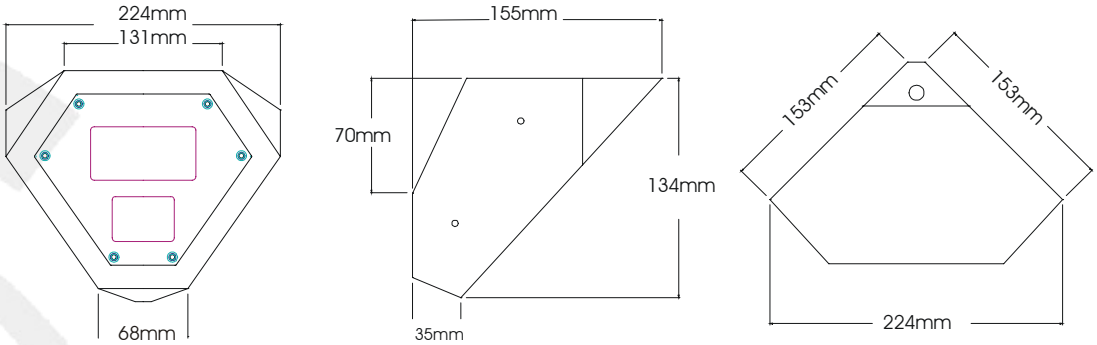
Technical Drawings



Specifications

(Other Special Order Models available on request)

EX36 N / Q Series	
Pick-up device	1/3" CCD B/W Sensor
Resolution:	
EX36N	420 TVL
EX36Q	380 TVL
Video Output	1 V p-p, 75 Ohm, NTSC
S/N	>48 dB
Spectra sensitivity	400 to 940 nm
Light sensitivity	Zero Lux under 940 nm I.R.
Electronic iris	1/60 to 1/100,000 second
Auto gain control	>18 dB
Input power	12 VDC or 24 VAC
Temperature range	-50°C to +50°C (-58°F to +122°F)

IR LED	850 nm or 940 nm, 84 LEDs
Control	Photocell with Sensitivity Controller
Power	900 mA at 12 VDC
Performance	Full View – All Walls / Floor w/ 2.5 mm Lens 19 ft. (6 m) spread in total darkness

Lenses

Focal Length (mm)	2.5	2.9	3.6	6.0
F	2.0	2.0	2.0	2.0
Viewing Angle (H)	140°	130°	92°	53°

Enclosure	Steel / Painted Flush removable front panel w/ security screws
Max. Dimensions	224 mm x 134 mm x 155 mm 8.8" x 5.3" x 6.1"
Weight	2.64 lbs (1.2 kg)
Window	1/4" Thick LEXAN

Note: All -50°C (and below) temperatures require special cold-crack cabling.

Part Numbers

(Other Special Order Models available on request)

EX36N.8302 -	Night Vision w/ 84 IR LEDs 850 nm, 420 Line, Photocell, 2.5mm lens
EX36N.9302 -	Night Vision w/ 84 IR LEDs 940 nm, 420 Line, Photocell, 2.5mm lens
EX36Q.8302 -	Quattro Color / Night Vision w/ 84 IR LEDs 850 nm, 380 Line, Photocell, 2.5mm lens
EX36Q.9302 -	Quattro Color / Night Vision w/ 84 IR LEDs 940 nm, 380 Line, Photocell, 2.5mm lens
EX36NX.8402 -	Night Vision w/ 84 IR LEDs 850 nm, 420 Line, Photocell, 2.5mm lens, w/ LXR
EX36NX.9402 -	Night Vision w/ 84 IR LEDs 940 nm, 420 Line, Photocell, 2.5mm lens, w/ LXR

Accessories

EXPS.004	Power Supply, 24 VDC, 1.0 amp, w/ 2.1 mm plug connector
EXAM.100	Microphone Module with Pre-Amp

EX36N_V14 030127

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Extreme CCTV®
SURVEILLANCE SYSTEMS

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EX36Q Quattro
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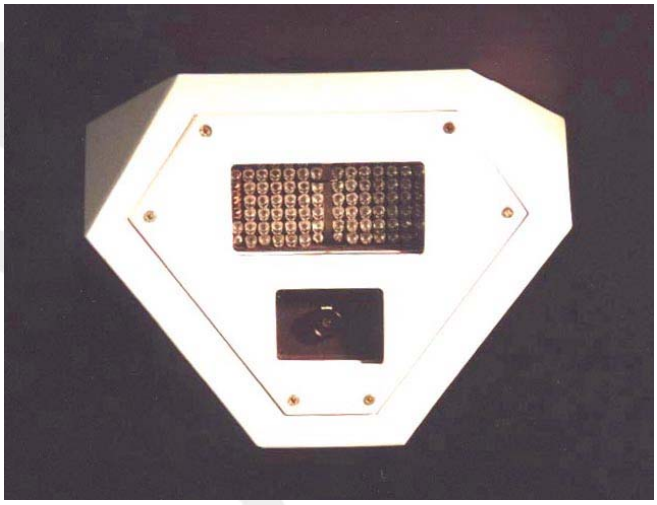

Above: The corner mount EX36 is a ruggedized no-grip design that minimizes the possibility of using it for self-inflicted harm.

Upper Right: Using a Quattro version EX36Q.9302 camera and a 2.5 mm lens, every square foot of floor space is captured. Except for a few square inches, there is no place to hide from the wide angle lens. All four walls and 99% of the floor is seen in this 9 foot x 15 foot room. Both the Quattro and Monochrome models automatically switch to infrared mode to get the picture in total pitch black darkness as seen in the picture below left.

Lower Right: A totally dark room is revealed in infrared reflectance using the EX36N.9302. At 940 nanometers, there is no detectable glow off the 84 LEDs that are used to provide the invisible lighting.

A & E

The Camera shall be a ruggedized corner mount camera with a smooth flush finish that does not have any anchor point protrusions when it is fastened to a ceiling-wall corner of a room. The Camera shall be an IDN Integrated Day Night camera to provide color or monochrome video by day and Infra-Red enhanced monochrome video by night. The Camera shall provide a minimum 20 db S/N picture throughout an entire 5m (15ft) square room in zero Lux. The Camera shall consist of a 1/3" CCD sensor for excellent day and night vision and be equipped with a 2.45 mm focal length lens or wider and be able to view the entire floor of a 15 foot square prison cell and be able to view all four walls including the two walls that it is attached to. The camera shall be equipped with an infrared array of 84 wide-beam-spread LEDs attached to an efficient heat sink base and operate at a light wavelength of 940 nanometres. The infrared light wavelength shall not visible to the human eye nor should any red glow be noticeable at its LED source. The camera shall switch from day-mode to night-mode with IR-on, by way of a sensitivity-adjustable photocell. All of the electronic equipment shall be contained in a vandal-resistant housing with tamper-proof screws. The Camera housing shall be equipped with separate windows, one for infrared light transmission and another for CCD camera picture reception. The windows shall be manufactured from 1/4" (6mm) Lexan and be fully supported with a continuous metal back plate. The Camera housing shall be made of welded steel and powder coat painted in white. The shape of the Camera housing shall be a "truncated tetrahedron" to allow for a 45 degree tilt towards the center of the room when installed to its ceiling-wall corner. The Camera housing shall be designed in such a way that a tight fit between the Camera housing and its wall and ceiling interfaces are assured even if the walls and ceiling are out of "square" by up to 3 degrees. The front faceplate of the Camera housing shall be flush mounted into the housing and be removable with six tamperproof screws. A die-cut gasket installed behind the faceplate shall ensure water-tightness from periodic splashes of liquids caused through attempted vandalism or cleaning. The Camera shall be an Extreme CCTV Model EX36 Series, a patent pending design as registered in the U.S. Patent Office.

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