EX-PROOF PTZ DAY/NIGHT CAMERA

EC-940-PTZ Analogue Series

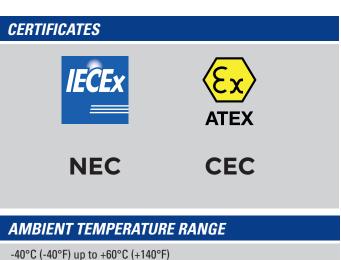
The EC-940-PTZ ex-proof PTZ camera series offers a superior image quality and an exceptional precision even in poorly lighted environments. This ex camera is ideal for effective video surveillance and process control in harsh settings where the presence of gases or flammable dust can create a potentially explosive environment. A reality often found in the oil and gas industries or marine and industrial sectors. The area is always monitored, thanks to the speed and detection accuracy of the target.

The optional watertank washer kit, with tank and pump controlled by an ex-proof solenoid valve, allows flawless and maintenance-free cleaning of the front glass.



MAIN FEATURES

- Electropolished AISI 316L stainless steel ex-proof PTZ unit
- Day/Night camera
- 🕨 True Progressive Scan
- High resolution: up to 550 TV Lines
- Advanced image stabilizer (Stable Zoom Mode)
- Day/Night (Auto ICR: automatic removal of IR filter)
- Variable speed: 0.1°-100°/s Pan and Tilt
- Position accuracy: 0.02°
- > ¾" NPT threaded hole for use of cable glands or conduit
- Extremely easy electrical connections directly into the unit, thanks to the explosion-proof inspection box
- Integrated wiper



IP 66

IP SAFETY



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TECHNICAL DATA

GENERAL

Housing material:AIExternal surfaces :PaPositioning control system :DyFunctions:Au

AISI 316L stainless steel construction Passivated and electropolished Dynamic Autopan, Preset, Patrol, Tour (maximum 3), Autoflip

Up to 999 units, addressable by means of dip-switches

MECHANICAL

3/4" NPT hole for cable glands Zero backlash Horizontal rotation: 360°, continuous rotation Vertical rotation: from -90° up to +90° Horizontal speed (variable): from 0.1° to 100°/s from 0.1° to 100°/s Tilt speed (variable): 0.02° Accuracy of preset positions: 12mm thick tempered glass window Integrated wiper 27kg (60lb) Unit weight:

CAMERA

Optical zoom: Wide Dynamic Range (Fix/Auto): True progressive SCAN: Digital image stabilisation: White balance:

High horizontal resolution: Day/Night (Auto ICR): Image Sensor:

Number of effective Pixels: Min. Color illumination (IR-Cut Filter = OFF): Min. B/W illumination: "Shutter Time" automatic increase to improve the night surveillance: S/N ratio: AE control:

Back light compensation: Spherical masking (3D) of Privacy zones with automatic upgrade: Privacy Zone Masking: Maximum number of masking blocks to be displayed: Resolution of masking blocks: Masking:

Focusing system:

"Smart" lens control: High Zoom and Wide Horizontal Field of View Capability: Optical zoom: Lens:

Digital Zoom: Angle of view (A): Minimum object distance:

Electronic Iris Speed:

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36x yes yes yes Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto) Up to 550 TV Lines yes 1/4" EXView HAD CCD PAL: NTSC: ~ 440,000 | ~ 380,000 1.4Lux / 1/50s | 1.4Lux / 1/60s 0.1 Lux / 1/3s | 0.1 Lux / 1/4s 0.01 Lux / 1/3s | 0.01 Lux / 1/4s yes More than 50dB Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual 0n/0ff ves On/Off (24 positions) 8 160x120 HxV Up to 15 different masking types: 14 colour types or mosaic Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual Automatic Lens Reset

yes 36x f=3.4 (wide) to 122.4mm (tele) / F1.6 to F4.5 2 12x (432x with optical zoom) 57.8 degrees (wide) to 1.7 degrees (tele) 320mm (12.6in) (wide) to 1500mm (59.1in) (tele) 1/1 ÷ 1/10 000s

ELECTRICAL								
Supply voltage/ Current consumption:		230VAC, 0.5A, 50/60Hz 24VAC, 5A, 50/60Hz						
Power consumption:		120W						
SERIAL COMMUNICATIONS								
Serial communication protocol:		AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D						
Maximum number of presets for serial communication protocol:		ERNITEC: 250 PANASONIC: 250 PELCO D: 99 AMERICAN DYNAMICS: 95						
Serial interface:		1 serial interface RS-485 half-duplex						
VIDEO								
Analogue version:		1 video output 75 Ohm 1Vpp (PAL/NTSC) 16-character string for zone and preset titling						
I/O INTERFACES								
I/O alarm card		• 2 alarm inputs						
		• 1 relay output (1A 30V AC/60V DC max)						
ENVIRONMENT								
Indoor/Outdoor								
Operating temperature:	ting temperature: from -40°C (-40°F) up to +60°C (140°F)							
Relative humidity:	fro	from 10% up to 95% (no condensation)						
CERTIFICATIONS								
ATEX: (EN 60079-0: 2012 +A11: 2013, EN 60079-1: 2007, EN 60079-31: 2009): HP66								
IECEx: (IEC 60079-0: 2011, IEC 60079-1: 2007-04, IEC 60079-31: 2008):	Ex IP	Ex d IIC T6 Gb Ta -40°C to +60°C Ex tb IIIC T85°C Db Ta -40°C to +60°C IP66 ATEX, IECEx: T4, -55°C to +80°C						
Only 24 V AC - NEC:	Zo Cla	Class I, Zone 1, AEx d IIC T6 Zone 21, AEx tb IIIC T85°C Class I, Division 2, Groups A, B, C, and D Class II, Division 2, Groups F and G						
Only 24 V AC -CEC:	Cla Cla	Class I, Zone 1, Ex d IIC T6 Gb Class II, Groups E, F and G Class I, Division 2, Groups A, B, C, and D Class II, Division 2, Groups F and G						
ACCESSORIES (optional, all in stainless steel)								
Pole adapter module EC-940-PTZ Corner adapter module EC-940-PTZ Mounting bracket EC-940-PTZ Wall bracket EC-940-PTZ			Order No. 251362 Order No. 251363 Order No. 251365 Order No. 251364					
DACKAGE								

PACKAGE

Weight: Dimensions: 30.4 kg (67 lb) 54x31x49 cm (21x12x19 in)

MODELS

Series		Туре	Transmission	Accessories	Voltage
EC-940-	PTZ	- A	3N - 36x NTSC	- W	10 - 230V AC
			3P - 36x PAL		20 - 24V AC*

For example: EC-940S-PTZ-A3P-W20

*NEC/CEC only with 24V AC

TECHNICAL DRAWINGS

Sizes in millimeters

