EX3-PTZ D SERIES

3rd Gen EX PTZ Camera 316L

DESCRIPTION

The EX3-PTZ D camera housing is an innovative, rugged corrosion proof dual head camera station designed for use in onshore, offshore, marine and heavy industrial environments. The combination of thermal imaging and daylight cameras facilitates 24/7 remote camera surveillance and analytics. The camera housing is only available in combination with a TKH Security daylight camera module (33x zoom BC822v2H3-AS, 22x zoom 4K BC980H2-AS, or 4x zoom BC840v2-M04-AS), a thermal module from the TC3 series, and an interface/cable tail (INT3-RJ/SM/MM)

FEATURES

- Corrosion protected 316L stainless-steel
- ATEX, IECEx, UKEX and INMETRO certified
- Dual head camera for day- and night-vision
- Grid protected germanium window (diameter 50 mm)
- Suited for 9, 13, 19, 25, 35, 50 mm thermal lenses
- Nema-4X, IP66, IP68 and IP69
- Integrated power supply (24, 115 or 230 Vac)
- Low stationary power consumption (<10W)
- Integrated heaters and wiper
- Electro-polished 316L sun-shields
- Easy access by integrated EX d



Description

Reliable and easy to maintain
EX3-PTZ D innovative design resulted in a highly reliable camera with extended lifetime of the motors, high precision gear technology and improved maintainability. It improves not only the installation time, but also the reparability of the camera station over its lifetime, thus lowering the operational costs of the camera in general.

Dual imaging
The EX-PTZ D comes with a optical and thermal imager. The thermal sensor, an uncooled micro-bolometer, converts invisible infrared radiation into visible thermal images. The TC3 series thermal module offer a range of different lenses, resolutions. Its grid protected window it suitable for lenses from 9 mm up to 50 mm.
The optical imager can be a 33x zoom ip-camera, the bc822v2H3-AS,or 22x zoom 4K camera, BC980H2. This head is standard equipped with a wiper and prepared for a washer installation. A 10 liter pressurized washer tank can be obtained separately.

Corrosion free 316L construction
The dual head PTZ camera is made of corrosion proof 316L stainless steel suited to operate in salty or sulfur rich environments. The hard carbon coated germanium window is additionally protected by a 316L grid.

ATEX, IECEx, UKEX and INMETRO certified
The EX-PTZ D is fully certified for hazardous areas zone 1 and 2 for gas and zone 21 and 22 for dust for Europe (ATEX), world-wide (IECEx), United kingdom (UKEX), and for Brazil (INMETRO). The certification includes the thermal module from the TC-336 or TC-640 series and the daylight camera (BC822v2H3-AS or BC980H2 or BC840v2-M04-AS).

Integrated heaters
Both camera heads are fitted with a thermal controlled heater. It regulates the humidity inside the camera and prevents ice or condensation forming on the germanium or optical window.

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Mechanical			
Body material	Electro-polished 316L stainless steel		
Optical Window	High-Grade Tempered Optical Glass		
- Size	diameter 75 mm; 10 mm thick		
Thermal Window	Diamond-like Coated (DLC) germanium		
- Size	diameter 50 mm; protected with 316L grid		
Sunshield	Standard		
Integrated wiper	Standard on the optical window		
Rotation	360° Continuous rotation		
Tilt angle	+90° to -90°		
Variable speed	0° to 40°/sec pan, 0° to 20°/sec tilt (peak)		
Pan/tilt torque	20 Nm (limited by safety device)		
Drive mechanism	Reinforced toothed belt		
Backlash	less then 0.1°		
Preset accuracy	better than 0.04°		
Ambient temperature (Tamb)	-60 °C to +60°C, +75 °C peak		
- Cold start	-30°C		
Relative humidity	5% to 100%		
Cable entry	1x M25x1.5		
Weight	39 kg (Packaged: 44 kg)		

Certifications			
Certification	ATEX; IECEx, UKEX, INMETRO		
Rating	II 2 G Ex db IIC T6/5/4 Gb -60°C Tamb +60/75/80°C		
	II 2 D Ex tb IIIC T85/100/135°C Db -60°C Tamb +60/75/80°C		
Ingress protection rating	IP66, IP68 (3m, 30min) and IP69, Nema-4x		
Impact rating (casing)	IK10		
Vibrations and shock	EN/IEC 60068-2-6; EN/IEC 60068-2-27; DNV-CG-0339		
ATEX/UKEX Standards	EN 60079-0; EN 60079-1; EN 60079-31		
IECEX Standards	IEC 60079-0; IEC 60079-1; IEC 60079-31		
INMETRO Standards	ABNT NBR IEC 60079-0:2020 ABNT NBR IEC 60079-1:2016 ABNT NBR IEC 60079-31:2022		
EMC	EN 55035; EN/IEC 61000-6-4; EN/IEC 61000-3-2; EN/IEC 61000-3-3;		
	EN/IEC 61000-6-2; CISPR-32; CISPR-35		
LVD	EN/IEC 62368-1		

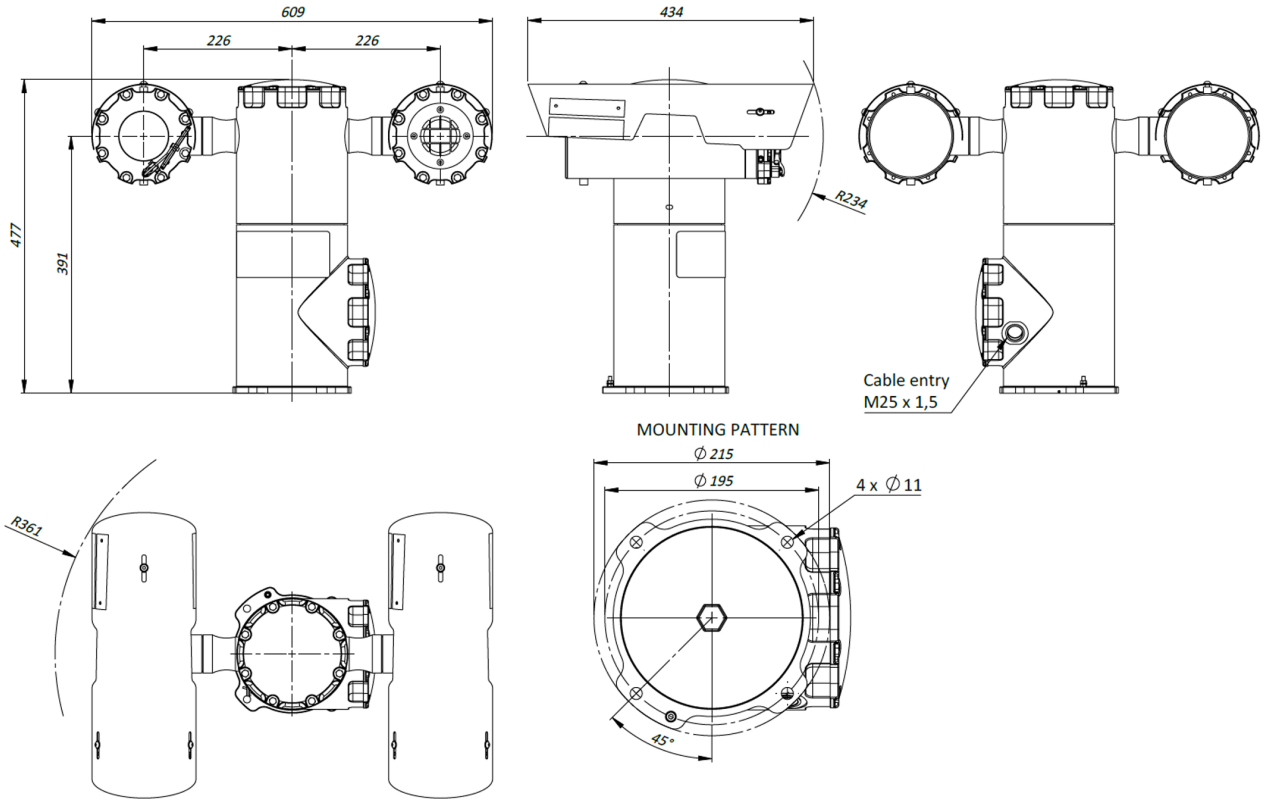
Electrical			
Power rating	EX3-PTZ24D-IR	EX3-PTZ120D-IR	EX3-PTZ230D-IR
	AC 24 V +/-10%	AC 120 V +/-10%	AC 230 V +/-10%
	50/60Hz	50/60Hz	50/60Hz
Max power consumption	170 W	170 W	170 W
Min power consumption (no heater, P/T, IR)	12 W min	12 W min	12 W min
Internal Heater	Standard		
- Heater control	On:12°C +/- 4°C; Off: 20°C +/- 3°C		
- Gears/Motors	Electronically controlled de-icing		

Specs

Electrical

Ordering information	
EX3-PTZ24D	3rd Gen EX dual spectrum PTZ Camera 316L, 24VAC
EX3-PTZ120D	3rd Gen EX dual spectrum PTZ Camera 316L, 120VAC
EX3-PTZ230D	3rd Gen EX dual spectrum PTZ Camera 316L, 230VAC
Cable tails and interfaces	Refer to "Siqura INT3-RJ / INT3-SM / INT3-MM"
Optical camera	Refer to bc822v2H3-AS or BC980H2-AS
Thermal camera	refer to TC3-X

DIMENSIONS IN MM



RELATED



Siqura BC822v2H3-AS
Assembly 33x zoom IP camera, 3MP, AF, Day/night, H.265/H.264



TKH Security BC980H2-AS
8MP IP Box camera with integrated 22x zoom lens



Siqura TC3-X
Open-frame 3rd generation thermal camera, 384x288 or 640x512



Siqura INT3-RJ / INT3-SM / INT3-MM / INT3-EoC
Network Interface and cable tail of the Siqura SA3 or EX3 cameras



Siqura EX-JB01
316L Ex e termination box for EX cameras



Siqura EX WP10
10 litres pressurized water tank in 316L cabinet



Siqura EX mounting accessories
316L Mounting accessories for the EX-FIX and EX-PTZ series