EX3-PTZ SERIES

3rd Generation EX PTZ Camera 316L

DESCRIPTION

The EX3-PTZ camera housing is an innovative, rugged, and corrosion proof PTZ camera station made for use in hazardous areas in onshore, offshore, marine and heavy industrial environments. The EX3 camera station is designed for easy installation and on-site repairs. The PTZ housing is not sold separately, it is only available in combination with a Siqura daylight camera module, such as the 33x zoom BC822v2H3-AS, 22x zoom 4K BC980H2-AS, or 4x zoom BC840v2-M04-AS, and an interface/cable tail (INT3-RJ/SM/MM)

FEATURES

- Corrosion protected 316L stainless-steel
- ATEX, IECEx, UKEX and INMETRO certified
- Nema-4X, IP66, IP68 and IP69
- Low stationary power consumption (<10W)
- Integrated EX d Junction box
- Integrated power supply (24, 115 or 230 Vac)
- Integrated heater and wiper
- Electro-polished 316L sun-shield
- Optional direct to fiber



Description

Reliable and easy to maintain
The EX3-PTZ innovative design resulted in a highly reliable design with extended lifetime of the motors, high precision gear technology and improved accessibility. This 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.

Corrosion free 316L construction
The EX3-PTZ camera is made of corrosion proof 316L stainless steel body, maintenance free and suited to operate in an corrosive atmosphere.

Low power consumption
The EX3-PTZ is characterized by in its low power consumption. While most PTZ cameras consume a lot of power even when the camera is not moving, the EX3-PTZ consumes less then 10 W when the camera is in stationary position. Mechanical brakes in both pan and tilt positions hold the camera in its stationary position, while the motors are switched off.

Day-light camera
The EX3-PTZ is to be fitted with one of TKH Security -AS cameras, such as the 33x zoom bc822v2H3-AS, the 22x zoom 4K BC980H2-AS or the BC840v3-Mxx-AS series. The camera is standard equipped with an integrated wiper and prepared for an installation with a washer. A 10 liter pressurized washer tank (EX-WP10) can be obtained separately.

ATEX, IECEx, UKEX and INMETRO certified
The EX3-PTZ 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 optical camera modules.

Integrated heater
The housing comes with a built-in thermally controlled heater. It regulates the humidity inside the camera and prevents ice or condensation from forming on the 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		
Sunshield	Standard		
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	30.5 kg (Packaged: 35.5 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		

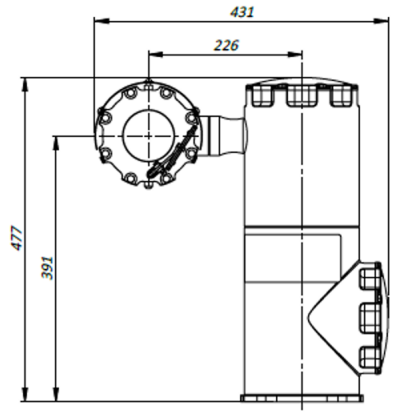
Electrical			
Power rating	EX3-PTZ24	EX3-PTZ120	EX3-PTZ230
	24 Vac +/-10%	120 Vac +/-10%	230 Vac +/-10%
	50/60Hz	50/60Hz	50/60Hz
Max power consumption	130W	130W	130W
Min power consumption (no heater, no P/T)	10W min	10W min	10W min
Internal Heater	Standard		
- Heater control	On:12°C +/- 4°C; Off: 20°C +/- 3°C		
- Gears/Motors	Electronically controlled de-icing		
Integrated wiper	Standard		

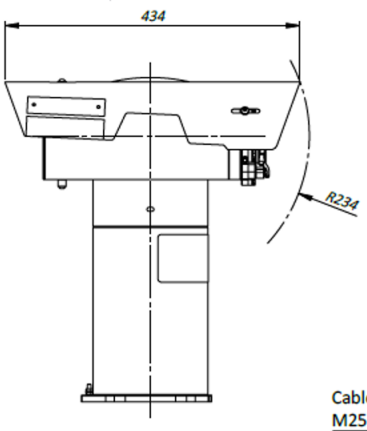
Ordering information

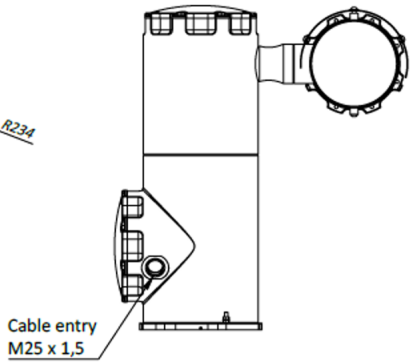
Specs

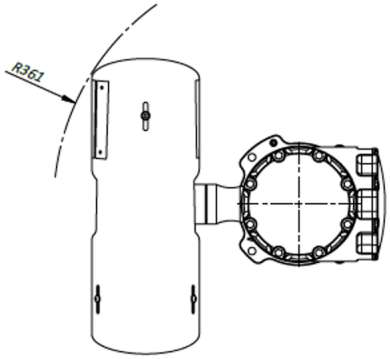
Ordering information	
EX3-PTZ24	3rd Gen EX PTZ Camera 316L 24VAC
EX3-PTZ120	3rd Gen EX PTZ Camera 316L 120VAC
EX3-PTZ230	3rd Gen EX PTZ Camera 316L 230VAC
Cable tails and interfaces	Refer to "Siqura INT3-RJ / INT3-SM / INT3-MM"

DIMENSIONS IN MM

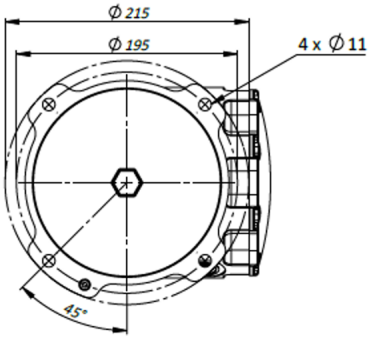








MOUNTING PATTERN



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 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