

#### SIQURA

# EX-TC620 PTZ

# Explosion proof thermal PT camera station

#### DESCRIPTION

The EX-TC620 PTZ is a pan and tilt camera station designed for use in hazardous areas in onshore, offshore, marine and heavy industrial environments. The camera housing is constructed from electro-polished 316L stainless steel for maximum corrosion protection and is fitted as standard with sunshield. The camera station is fitted with a 336 x 256 pixel thermal IP camera for night-vision or intrusion detection. Optionally the camera can be connected direct to optical fiber.

#### FEATURES

ATEX and IECEx certified for gas and dust

336x256 thermal camera with Perimeter Intrusion Detection

Complete range of thermal lenses available

Dual stream H264/MJPEG

360° Continuous rotation

Variable pan and tilt speed

Integrated flexible conduit tail

Optional: Direct Ethernet over Fiber

**ONVIF** profile S compliant





# ATEX and IECEx certified

The EX-TC620 PTZ is an Ex d (flame proof) housing suited to be used in hazardous areas, zone 1, 2 for gas and zone 21 and 22 for dust environments.

# Integrated thermal camera

The thermal camera makes video surveillance possible in all weather, no-light and difficult lighting conditions. It is built around an uncooled micro bolometer with a resolution of 336x256 pixels. No additional lightning is necessary to detect a person in the absolute dark.

# Multi-stream

The integrated camera has multi-stream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios.

### Security Solution

In combination with Sense, a multi-purpose Video Management System, the Ex cameras create a versatile CCTV solution for hazardous areas. Compatibility with other video management systems is realized by the camera's ONVIF Profile S compliance.

#### Conduit choices

To simplify installation in hazardous areas the Ex-PTZ is standard fitted with a 3, 5, or 10 m conduit, including wiring. Together with Sigura's 316L Ex e Termination Box the camera installation is quick and according EN-IEC 60079-14.

#### Direct to fiber

As an option the camera can be fitted with a 100FX optical fiber connection (2SM). The duplex single mode fibers come with dual LC connectors.



#### Camera housing

Camera housing			
Certification	ATEX, IECEx		
	II 2 G Ex d op pr IIC T6		
	II 2 D Ex tb IIIC T85°C Db IP66/67		
Ingress protection rating	IP66 and IP67		
Body material	Electro-polished 316L stainless steel		
Rotation	360° Continuous rotation		
Tilt angle	+90° to -90°		
Variable speed	up to 40°/sec pan and 20°/sec tilt (peak)		
Max Torque	80 Nm pan, 107 Nm tilt		
Backlash			
Preset accuracy	0.04°		
Conduit	25 mm low fire hazard, liquid tight conduit		
	Galvanised steel core. Zero halogen		
Glands	2x M25 Brass flameproof barrier glands, pre-assembled		
Length	3, 5, or 10 m		
Sunshield	Standard		
Wiper	Standard		
Washer system	Optional (EX-WP10 Ex e 24 or EX-WP10 Ex d 24)		
Operating temperature	-20 °C to +60 °C		
Dry heat test	+75 °C, 2 days		
Weight	approx. 34 kg		
Electrical			
	24 Vac 50/60 Hz; Optional 115 Vac 50/60 Hz; 230 Vac 50/60 Hz		
Supply voltage	24 Vac 50/60 Hz; Optional 115 Vac 50/60 Hz; 230 Vac 50/60 Hz 95 W maximum		
Supply voltage Power consumption	-		
Supply voltage Power consumption	95 W maximum		
Supply voltage Power consumption Electrical connections	95 W maximum		
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Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm		
Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number	95 W maximum         3 wire power cable from the conduit, 0.75 mm2         Uncooled micro-bolometer         17 μm         336 x 256 pixels         7.5 mm       9 mm         13 mm       19 mm       25 mm         45°x35°         35°x27°       25°x19°       17°x13°		
Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number Spectral bandwidth	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm 45°x35°   35°x27° 25°x19° 17°x13° 13°x10° 9.3°x7.1° 6.5°x5° f/1.4   f/1.25 f/1.25 f/1.25 f/1.1 f/1.5 f/1.2		
Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number Spectral bandwidth Frame rate	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm 45°x35°   35°x27° 25°x19° 17°x13° 13°x10° 9.3°x7.1° 6.5°x5° f/1.4   f/1.25 f/1.25 f/1.25 f/1.1 f/1.5 f/1.2 7.5 μm to 13.5 μm (LWIR)		
Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number Spectral bandwidth Frame rate Sensitivity (NEdT)	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm 45°x35°   35°x27° 25°x19° 17°x13° 13°x10° 9.3°x7.1° 6.5°x5° f/1.4   f/1.25 f/1.25 f/1.25 f/1.1 f/1.5 f/1.2 7.5 μm to 13.5 μm (LWIR) 8.3 fps (xx-S version); 30 fps (xx-F version)		
Electrical Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number Spectral bandwidth Frame rate Sensitivity (NEdT) Measuring range Accuracy	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm 45°x35°   35°x27° 25°x19° 17°x13° 13°x10° 9.3°x7.1° 6.5°x5° f/1.4   f/1.25 f/1.25 f/1.25 f/1.1 f/1.5 f/1.2 7.5 μm to 13.5 μm (LWIR) 8.3 fps (xx-S version); 30 fps (xx-F version) < 50 mK @ f/1.0		
Supply voltage Power consumption Electrical connections Thermal imager Imager Pixel pitch Resolution Focal length Field of view f-number Spectral bandwidth Frame rate Sensitivity (NEdT) Measuring range	95 W maximum 3 wire power cable from the conduit, 0.75 mm2 Uncooled micro-bolometer 17 μm 336 x 256 pixels 7.5 mm 9 mm 13 mm 19 mm 25 mm 35 mm 50 mm 45°x35°   35°x27° 25°x19° 17°x13° 13°x10° 9.3°x7.1° 6.5°x5° f/1.4   f/1.25 f/1.25 f/1.25 f/1.1 f/1.5 f/1.2 7.5 μm to 13.5 μm (LWIR) 8.3 fps (xx-S version); 30 fps (xx-F version) < 50 mK @ f/1.0 -40 °C to 550°C		

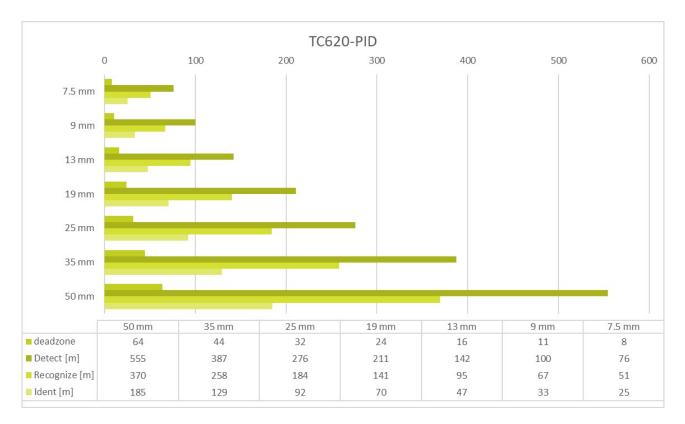
# Analytics (Fixed position only)



# Specs

Analytics (Fixed position only)		
Detection ones or lines	2x in stand-alone (Web configured)	
	up to 8x with the VCA Configuration Server or Sense VMS	
Event type	Detection line	Touch, Cross (directional sensitive), Cross
	Detection zone	Touch, Enter, Inside, Exit
Event time	0 to 10 s	
Event output	generic ONVIF, digital I/O, SPI	
Video		
Number of video streams	2x H.264/MJPEG	
Max resolution	720 x 512 @ 25/30fps (upsampled)	
Number of output streams	Up to 20 (RTSP)	
Compression algorithm(s)	H.264 (H.264/MPEG-4 AVC), MJPEG	
Encoder bit rate control	Constant bit rate (CBR), variable bit rate	e (VBR)
Output bit rate (per H.264 stream)	Up to 6 Mbit/s	
Total output data rate	Up to 32 Mbit/s	
Video overlay	3x Text, 1x bitmap (BMP, GIF); PID Obj	ject data (blue blob), event data (red box);
Network		
Interface(s)	10/100 Mb Ethernet (4-wires 0.5 mm2 f	írom conduit)
2SM option	100FX fiber (2SM, duplex single mode	fiber with dual LC from conduit)
Protocols	IPv4, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, UPnP, IGMP, SN	
	IPv4, TCP/IP, UDP, RTP, RTSP, HTTP, F	TTPS, ICMP, FTP, SMTP, DHCP, UPnP, IGMP, SNMP, C
Password levels	User and Administrator	ITTPS, ICMP, FTP, SMTP, DHCP, UPnP, IGMP, SNMP, ( 
Password levels Supported browsers		
	User and Administrator	
Supported browsers	User and Administrator Internet Explorer (9.0+), Chrome, Firefo	
Supported browsers User accounts	User and Administrator Internet Explorer (9.0+), Chrome, Firefo	ox, Safari
Supported browsers User accounts Order information	User and Administrator Internet Explorer (9.0+), Chrome, Firefo 20 Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va	ox, Safari
Supported browsers User accounts Order information EX-TC620 7.5-S PTZ 24 3C	User and Administrator Internet Explorer (9.0+), Chrome, Firefo 20 Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va	ox, Safari ac 3m conduit 25 mm M25 ac 2SM 3m conduit 25 mm M25, Direct to Fiber.
Supported browsers User accounts Order information EX-TC620 7.5-S PTZ 24 3C EX-TC620 7.5-S PTZ 24 2SM 3C	User and Administrator Internet Explorer (9.0+), Chrome, Firefo 20 Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va	ox, Safari ac 3m conduit 25mm M25 ac 2SM 3m conduit 25mm M25, Direct to Fiber. 5, or 50
Supported browsers User accounts Order information EX-TC620 7.5-S PTZ 24 3C EX-TC620 7.5-S PTZ 24 2SM 3C EX-xxxxx 7.5-x xxx	User and Administrator Internet Explorer (9.0+), Chrome, Firefo 20 Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va Ex 316L PTZ IP Ti 7.5mm 9Hz 336 24Va Lens type in mm: 7.5, 9.0, 13, 19, 25, 3	ox, Safari ac 3m conduit 25 mm M25 ac 2SM 3m conduit 25 mm M25, Direct to Fiber. 5, or 50 s)





# DSI CHART.



# VIRTUAL FENCE - INTRUSION DETECTION

