

NEXT DUAL DAY/NIGHT & THERMAL PTZ CAMERA

INNOVATIVE EXPLOSIONPROOF DAY/NIGHT AND THERMAL PTZ CAMERA STATION

HAZARDOUS AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- ATEX/IECEX/UKCA/INMETRO/ECAS EX EXPLOSIONPROOF PTZ FOR HAZARDOUS LOCATIONS
- AISI316L STAINLESS STEEL CONSTRUCTION
- CERTIFICATION TEMPERATURE -60°C +80°C
- VISIBLE: 3MP, H.265, 40X AUTOFOCUS OPTICAL ZOOM
- THERMAL: 640X512 RESOLUTION, 9HZ OR 30HZ, LWIR
- DUAL INDEPENDENT VISIBLE AND THERMAL VIDEO STREAMS
- THERMAL RADIOMETRIC ANALYTICS OPTIONAL
- WIDE RANGE OF THERMAL LENSES
- EIS ELECTRONIC IMAGE STABILIZER (VISIBLE)
- INTEGRATED WINDOW WIPER (VISIBLE)
- VERY LOW POWER CONSUMPTION
- EASY MAINTENANCE
- IP66/67/68/69, NEMA 4X
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN 120VAC OR 230VAC POWER SUPPLY
- H2-READY
- NDAA COMPLIANT



TECHNICAL SPECIFICATIONS

GENERAL & MECHANICAL

Dimensions	See dimensions drawings
Operating Temperature	-60° +60°C, +75°C peak (-76°F +140°F, +167°F peak)
Construction	AISI316L Stainless Steel
Finish	Electro-polished
Window	Germanium HC coated 50mm (Thermal)
Mounting	4x Ø11 on 195 PCD
Cable entries	1x M25x1,5 (second cable entry available on demand)
Wiper	Yes (visible)
Pan Angle	360° (continuous rotation)
Pan Speed	0 – 40°/second
Pan Torque	20Nm (limited with safety device)
Tilt Angle	180° (+/-90°)
Tilt Speed	0 – 20°/second
Tilt Torque	20Nm (limited with safety device)
Rotation angle	Electronically adjustable limit switches
Backlash	<0,1°
Max preset accuracy	0,04°
Control protocol	Pelco D (RS485)
Weight	Unit: 40 Kg / Package: 45 Kg

ELECTRICAL

Temperature Climatization	
- Camera Housing	T[°C] ON = 12 ± 4°C, T[°C] OFF = 20 ± 3°C
- Gear motors	Electronically controlled de-icing
Available voltages	24VAC, 120VAC, 230VAC (+/-10%) 24VDC available on request
Power consumption	•12W min (stationary and heaters/wiper off) •87W Operating (no heaters) •170W MAX (low temperature operation)

CERTIFICATIONS

Ingress Protection	EN 60529 (IP66/IP67/IP68/IP69), NEMA 4X
IK Classification	IK10 on all sides except for the cameras front glasses, which are rated IK08
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
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; ABNT NBR IEC 60079-1; ABNT NBR IEC 60079-31
ECAS Ex Standards	UAE.S IEC 60079-0, UAE.S IEC 60079-1, UAE.S IEC 60079-31
EMC	EN 55032; EN 55035; EN/IEC 61000-3-2; EN/IEC 61000-3-3; EN/IEC 61000-6-2; EN/IEC 61000-6-4; CISPR-32; CISPR-35
LVD	EN/IEC 62368-1
RoHS	2011/65/EU + 2015/863/EU (RoHS 3)
WEEE	2012/19/EU

CAMERA (DAY/NIGHT)

Sensor	1/2.8" Progressive CMOS, 3MP
Resolution	- Up to 2065x1553, 3MP (H.264/H.265) - Up to 1920x1080, 2MP (MJPEG)
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 configurable streams
Frame Rate	- 2MP: 60fps (WDR off), 30 fps (WDR on) - 3MP: 30fps (H.264/H.265)
Sensitivity	Color: 0.04 lux, B/W: 0.002 lux
Shutter Speed	1 to 1/10000 s
Optical Filter	Automatically removable IR-cut filter
White Balance	Contrast White Balance
Dynamic range	WDR/HDR
Lens	40x Autofocus Optical Zoom, 10x Digital Zoom, 4.3-170mm, F1.6
FOV	Horizontal: 63.7° (Wide), 1.7° (Tele) Vertical: 49.2° (Wide), 1.3° (Telee)

Analytics	Motion Detection/Tampering. OPTIONAL: intrusion detection, wrong direction, object removal, sabotage, loitering, stopped vehicle, object counting
Image settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure control, 2D/3D Noise Reduction
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External Output Activation
Edge Recording	Micro SD/SDHC/SDXC (card not provided)
Network Storage	Support for recording to NAS
SNR	>50dB
Noise Reduction	3D Motion Compensated Noise Reduction
Iris	P-Iris, Auto-Iris
Image Stabilization	EIS

CAMERA (THERMAL)

Sensor	VOx Microbolometer, 17µm, uncooled
Resolution	640x512 pixels
Spectral Band	LWIR 7.5-13.5µm
Compression	Two independent channels of H.264 / H.265 or MJPEG
Streaming	Up to two streams
Frame Rate	9Hz (9fps) or 30Hz (30fps)
Focus Settings	Athermalized, focus-free
Sensitivity	<25mK (35mK Radiometric version) @ f/1.0
Shutter type	SSN - Silent Shutterless NUC™ for continuous image uniformity improvement
Edge Recording	microSD, up to 512GB (card not provided)
Gain	DDE Digital Detail Enhancement™
Analytics	Intrusion detection, region entrance, fence trespassing. Hot spots, fire detection (only for radiometric version)

LENS (THERMAL)

	FOV (HxV)	
	TTxx	TRxx (Radiometric)
7.5mm	90°x69°, F1.2	-
9mm	69°x56°, F1.4	69°x56°, F1.4
13mm	44°x36°, F1.0	44°x36°, F1.0
19mm	32°x26, F1.0	-
25mm	25°x18°, F1.1	25°x18°, F1.1
35mm	17°x14°, F1.1	17°x14°, F1.1
60mm	10°x8.2°, F1.2	-

NETWORK

Interface	100BASE-TX or 100BASE-FX/1000BASE-X (fiber)
Security	User Authentication/HTTPS/IEEE 802.1x
ONVIF	ONVIF profile G/S/T/M (visible), ONVIF S/G/T (thermal)
Protocols	IPv4/v6, TCP, UDP, RTSP, HTTP, HTTPS, FTP, DHCP, NTP

FIBER MEDIA CONVERTER

Interface	100 Base-FX/1000BASE-X
Cabling	Singlemode (9/125 µm) /two fibers/SC connector
Maximum Distance	20km
Wavelength	1310 nm

MODELS

TXPD1TV2-Tyxx-IP-S	New Generation Explosionproof DUAL PTZ IP camera station, 24VAC
TXPD2TV2-Tyxx-IP-S	New Generation Explosionproof DUAL PTZ IP camera station, 120VAC
TXPD3TV2-Tyxx-IP-S	New Generation Explosionproof DUAL PTZ IP camera station, 230VAC
TXPD1TV2-Tyxx-SM-S	New Generation Explosionproof DUAL PTZ IP camera station, SM FO Media Converter, 24VAC
TXPD2TV2-Tyxx-SM-S	New Generation Explosionproof DUAL PTZ IP camera station, SM FO Media Converter, 120VAC
TXPD3TV2-Tyxx-SM-S	New Generation Explosionproof DUAL PTZ IP camera station, SM FO Media Converter, 230VAC

(+) Gridless version available on request

TTxx = camera with Analytics

TRxx = camera with Analytics and Radiometry

To order the required camera configuration, please replace "Tyxx" with the number indicated in the table below.

CAMERA MODEL SELECTION

	TTxx (Analytics only)		TRxx (Analytics & Radiometry)	
	9Hz	30Hz	9Hz	30Hz
7.5mm	TT21	TT31	-	-
9mm	TT22	TT32	TR22	TR32
13mm	TT23	TT33	TR23	TR33
19mm	TT24	TT34	-	-
25mm	TT25	TT35	TR25	TR35
35mm	TT26	TT36	TR26	TR36
60mm	TT28	TT38	-	-

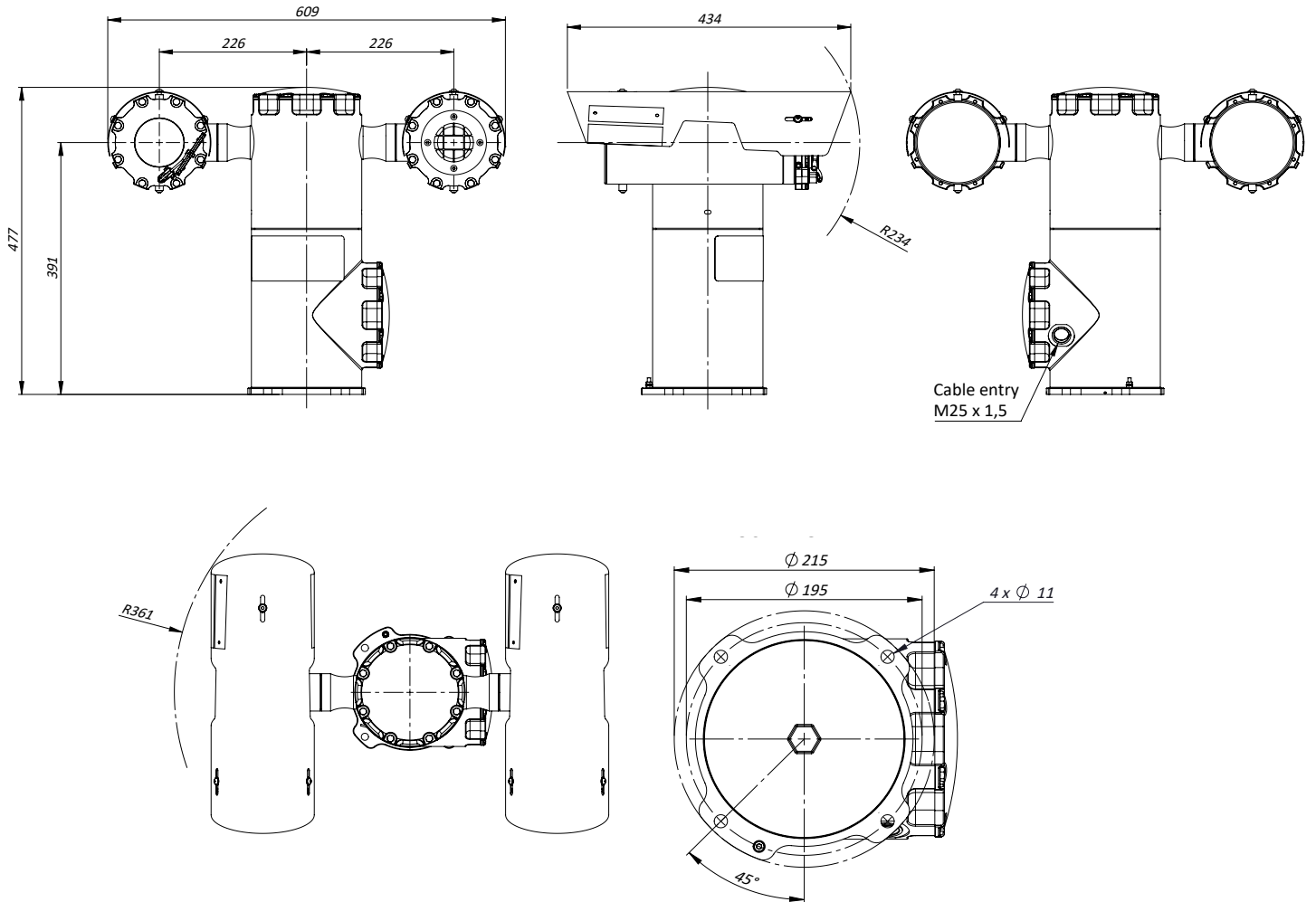
PRE-ASSEMBLED CABLE TAILS

EXACCTF3-B	3 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera
EXACCTF3-D	3 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera
EXACCTF5-B	5 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera
EXACCTF5-D	5 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera
EXACCTF10-B	10 meters armoured composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands. For PTZ camera
EXACCTF10-D	10 meters armoured composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC. For PTZ camera

ACCESSORIES

SSBK-L	Wall mounting bracket
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DIMENSIONS



Dimensions in millimetres - Tolerances according QMS - Design and products specifications subject to change without notice - rev. 20250228