

IQV-EX-943-T Series

EXPLOSION PROOF PTZ THERMAL CAMERA

with 640×512 Thermal Imaging, ONVIF Compliant

The IQV-EX-943-T PTZ Series is engineered to deliver protection for valuable assets for critical and harsh environments. With 640×512 thermal imaging and advanced heat detection capability, it is ideal for monitoring processes and ensuring reliable detection performance in all lighting conditions, including complete darkness and low-visibility environments. Designed for proactive security, the camera supports advanced functions such as intrusion detection, motion detection, and line crossing detection. It's rugged AISI316L stainless steel housing ensures durability in extreme weather conditions and offers comprehensive protection against dust, water, lightning, and surge, certified to IP66/68/69 standards. Ideal for perimeter defense, industrial safety, and asset protection.



Additional Features

- Certification for Hazardous Areas
- Protection Level of IP66/68/69
- All-Weather 24/7 Thermal Imaging
- Continuous Monitoring in Total Darkness and Low-Visibility conditions
- 640×512 Thermal Resolution
- Motion Detection, Line Crossing Detection, Regional Intrusion Detection
- ONVIF Compatibility
- Optional built-in fiber media converter
- Optional built-in IP over coax converter



TECHNICAL INFORMATION

GENERAL & MECHANICAL	
Operating Temperature	-40°C to +60°C
Ingress Protection	IP66 & IP68(2m/2h) & IP69
Operating Voltages	AC 100–240V / AC 24V (50/60Hz); DC 24V / PoE++ (48V DC); ≤ 5A
Power Consumption	≤60W
Surge Protection	TVS 6000V Lightning and Surge Protection
Material	AISI316L Stainless Steel
Finishing	Optional: Electro-polished / Painting
Relative Humidity	≤95%
Mounting Options	Wall mount
Dimensions (W x D x H)	Kindly refer to individual dimensions for each model.
Weight	Approximately 46 kg / 101.4lbs
Cable Gland Entry	M25x1.5 / M27x1.25

CERTIFICATIONS & RATINGS	
Rating	II 2 G Ex db II C T6 Gb, II 2 D Ex tb IIIC T80°C Db
IECEx Standards	IEC60079-0, IEC60079-1, IEC60079-31
ATEX	EN60079-0, EN60079-1, EN60079-31
PTZ SPECIFICATION	
Pan Range	360° Endless
Pan Speed	0.1°/s – 45°/s
Tilt Range	-90° to +90°
Tilt Speed	Variable, Max. 30°/s
Preset Position	Up to 255 Presets
Control Protocol	Pelco-D, Pelco-P (RS-485)
Baud Rate	2400–19200 bps (Adjustable)

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THERMAL CAMERA				
Image Sensor	Vanadium Oxide Uncooled FPA			
Resolution	640x512 pixels			
Frame Rate	Main Stream: 640x512 at 50Hz			
Spectral Range	8~14μm			
Pixel Pitch	17μm			
NETD	≤40mK (@F1.0, 300K)			
NUC	Auto/Manual/Scheduled			
Digital Zoom	16x			
Focus Mode	Auto/Manual			
Focal Length	25mm			
Field of View (FOV)	24.6° × 18.5°			
Color Palettes	14 Modes			
Image Enhancement	Yes			
Noise Reduction	Yes			
Video Compression	H.265/H.264			
Storage	Built-in Storage			
Alarm I/O	1 Input / 1 Output			
Smart Analytic	Line Crossing, Area Intrusion, Motion Detection, Network Loss Detection, IP Conflict Notification, Storage Capacity Alert, Storage Fault Alert			
LENS SELECTION (DRI PERFORMANCE)				
Lens	FOV (H × V) [°]	Detect	Recognize	Identify
19mm	32° × 24.2°	900.0m	300.0m	150.0m
25mm	24.6° × 18.5°	1200.0m	400.0m	200.0m

*DRI distances are provided for reference only. Actual performance may vary depending on installation and environmental conditions.

NETWORK	
Interface	RJ45 10Base-T/100Base-TX
ONVIF	ONVIF (Profile S, Profile G)
Protocols	HTTP, RTSP, ONVIF
Security	Password Protection, HTTPS Encryption, IEEE 802.1X Network Access Control, IP Address Filtering, MAC Address Binding
MEDIA CONVERTER	
FIBER	
Interface	100 Base-FX/1000BASE-X
Cabling	Singlemode (OS2 9/125 μm) /two fibers/SC connector
Maximum Distance	20km
Wavelength	850 nm
IP OVER COAXIAL	
Interface	10/100 Base-TX over coaxial cable
Bandwidth	Up to 95Mbps downlink/uplink
Maximum Distance	1800 metres
Technology	Broadband over Power Lines (BPL)
Interference Prevention	IEEE 1901-2010 Inter-System Protocol ISP
ACCESSORIES	
Enclosures	Explosion-proof Ex d Stainless Steel IP67 Control Box (various)
Glands	Explosion-proof Ex d Stainless Steel Cable Gland (various)
Conduit	Ex e Ex d IP66 IP67 Flexible Conduit (various)
Washer	Explosion-proof Self-Washing System
Composite	Optical, Power, LAN, Instrumentations (various)