

IQV-EX-943-S Series

EXPLOSION PROOF PTZ CAMERA

with 5MP 32x Autofocus Optical Zoom, ONVIF Compliant

The IQV-EX-943-S PTZ Series is engineered to deliver protection for valuable assets for critical and harsh environments. With a superior 5MP resolution and powerful 32x optical zoom, perfect for monitoring processes and ensuring clear imaging performance even in low-light conditions. Designed for proactive security, the camera supports advanced functions such as intrusion detection and face 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
- Starlight-Level Low-Light Imaging
- True Day/Night Imaging
- Real-Time 5MP Video Output
- Motion Detection, Intrusion Detection, Line Crossing Detection, Region Entrance/Exit Detection, Scene Change Detection, Face Detection
- Electronic Image Stabilization
- 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%
Wiper	Yes
IR Illumination	Up to 200 metres
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)
Optical Zoom	32x Optical Zoom
Digital Zoom	16x Digital Zoom

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TECHNICAL INFORMATION

VISUAL CAMERA				
Sensor	5MP, 1/1.8" Progressive Scan CMOS			
Resolution	2592×1944 pixels			
Frame Rate	Main Stream: 25fps (2592×1944, 2304×1728, 1920×1080, 1280×960, 1280×720) at 50Hz; 30fps (2592×1944, 2304×1728, 1920×1080, 1280×960, 1280×720) at 60Hz Sub Stream: 25fps (704×576, 640×480, 352×288) at 50Hz; 30fps (704×480, 640×480, 352×240) at 60Hz Third Stream: 25fps (1920×1080, 1280×960, 1280×720, 704×576, 640×480, 352×288) at 50Hz; 30fps (1920×1080, 1280×960, 1280×720, 704×480, 640×480, 352×240) at 60Hz			
Compression	Video: H.264/H.264+/H.265/H.265+/MJPEG Video Bit Rate: 32Kbps~16Mbps H.264 Profiles: Base/Main/High; H.265 Profile: Main Triple Stream: Supported Audio: G.711a, G.711u Audio Bit Rate: 64Kbps (G.711)			
Minimum Illumination	Color: 0.005 Lux @(F1.6, AGC ON); B/W: 0.0005 Lux @(F1.6, AGC ON)			
Shutter Speed	1/3–1/100,000s			
Wide Dynamic Range	130dB			
Digital Noise Reduction	2D/3D DNR			
Day and Night	ICR Cut Filter			
Lens	Focal Length: 4.8mm-154mm Field of View (H × V × D): 52.2° × 39.9° × 62.8° to 2.2° × 1.7° × 2.8° Aperture: F1.6–F4.3 Zoom Speed: Approx. 5.6 s Focus Control: Auto / Semi-auto / Manual			
Image Settings	Brightness, Contrast, Saturation, Hue, Sharpness, Electronic Image Stabilization, Region of Interest, Backlight Compensation, Highlight Compensation			
Analytics	Motion Detection, Intrusion Detection, Line Crossing Detection, Region Entrance/Exit Detection, Scene Change Detection, Face Detection			
DORI				
Zoom Position	Detect	Observe	Recognize	Identify
Wide (4.8 mm)	109.0m	43.6m	21.8m	10.9m
Tele (154 mm)	2500.0m	1000.0m	500.0m	250.0m

NETWORK	
Interface	RJ45 10Base-T/100Base-TX
ONVIF	ONVIF (Profile S, Profile G, Profile T)
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, IGMP, UPnP, SMTP, UPnP-TM, P2P
Network Storage	NAS (NFS/CIFS)
Security	User authentication, IP address filtering, Video masking
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)