

IQV-EX-943 Series

EXPLOSION PROOF DUAL PTZ CAMERA

Integrated with 4MP 33x Optical Zoom & High Resolution 640x512 Thermal Camera ONVIF

The IQV-EX-943 Dual PTZ Series is designed to deliver protection for valuable assets for critical and harsh environments. With a superior 4MP resolution and powerful 33x optical zoom and high-resolution thermal camera, these are perfect for monitoring processes and ensuring quality control but also swiftly detects flames and fires in explosive atmospheres, prioritizing safety. It incorporates cutting-edge lighthunter technology and intelligent intrusion prevention features such as cross line, intrusion, and leave area detection, this system provides proactive security measures.

INQUIVISION
PUSHING FORWARD LOOKING PERFORMANCE



Additional Features

- Certification for Hazardous Areas
- Protection Level of IP66/68
- Lightfinder and WDR Technologies
- Ultra motion detection & intruders detection
- Low Power Consumption
- High-resolution thermal imaging solution
- Detects gas leak locations
- Hot spot detection for 24/7 production
- Protect and detects explosive atmospheres
- 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 / DC 24V / PoE++(DC 48V); ≤5A Frequency 50/60Hz
Power Consumption	≤100W
Surge Protection	TVS 6000V Lightning and Surge Protection
Material	AISI316L Stainless Steel
Finishing	Optional: Electro-polished / Painting
Relative Humidity	≤95%
Wiper	Yes
LED Illumination	Maximum 200 metres (White/Infra-red)
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 Entries	1 x M25 x 1.5

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
EMC	CE-EMC (EN 55032:2015+A11:2020; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55035:2017+A11:2020) 2017+A11:2020)
FCC	FCC CFR 47 part15 B, ANSI C63.4-2014

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TECHNICAL INFORMATION

VISUAL CAMERA	
Sensor	1/2.8", 4.0 megapixel, progressive scan, CMOS
Frame Rate	Main Stream: 4MP(2688*1520),Max 30fps; Sub Stream: 2MP (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps; - Up to 1920x1080, 2MP
Compression	Ultra 265, H.265, H.264, MJPEG
Streaming	Up to 3 configurable streams
Minimum Illumination	Colour: 0.003 Lux (F1.5, AGC ON), 0 Lux with IR
Shutter Speed	Auto, 1 ~ 1/100000s
Optical Filter	Automatically removable IR-cut filter
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Lens	4.5 ~ 148.5mm, AF automatic focusing and motorized zoom lens
Analytics	Motion Detection/Tampering, Boundary Breach Detection, Intrusion Alert System, Entry Zone Monitoring/Exit Zone Monitoring
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Edge Recording	Micro SD, up to 256 GB (card not provided)
Network Storage	ANR,NAS(NFS)
Signal-to-Noise Ratio	>56dB
Noise Reduction	2D/3D DNR

THERMAL CAMERA	
Sensor	12µm vanadium oxide uncooled focal plane array
Resolution	640 x 512 pixels
Spectral Range	8~14µm
Compression	H264 video, MJPEG image
Frame Rate	25Hz (1280*1024, 1280*720, 640*480)
Focus Settings	Fixed manual focus, minimum focus distance
Sensitivity NETD	≤50mK@25°C
Functions	Fire detection, abnormal temperature alarm, etc
Image Settings	Black hot, White hot, Color Palette (10+ types)
Event Actions	Recording/Capture/Sending mail/PTZ linkage/Alarm output
Analytics	Boundary Breach Detection, Intrusion Alert System, Entry Zone Monitoring/Exit Zone Monitoring
Alarm Trigger	Network interruption/disconnection, IP conflict, memory full abnormal detection, breach of access
GAIN	Digital detail enhancement and digital filter and 3D imaging denoising

DORI					
	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
DORI Distance	4.5	105.8 (346.9ft)	42.3 (138.8ft)	21.2 (69.4ft)	10.6 (34.7ft)
	148.5	3172.5 (10408.5ft)	1269.0 (4163.4ft)	634.5 (2081.7ft)	317.3 (1040.8ft)

LENS SELECTION		
Lens	FOV (HxV) 640x512	Minimum Focus Distance
9mm	46.2°(H)×37.7°(V)	0.5m
15mm	28.7°(H)×23.2°(V)	0.5m
19mm	22.9°(H)×18.4°(V)	0.5m
25mm	17.5°(H)×14.0°(V)	1m

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NETWORK	
Interface	100M Base-TX Ethernet / 1 * RJ45 10M
Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
ONVIF	ONVIF (Profile S, Profile G, Profile T)
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP,SSL/TLS

ACCESSORIES	
Enclosures	Explosion-proof Ex d stainless steel IP68 Control Box (various)
Glands	Explosion-proof Ex d stainless steel cable gland (various)
Conduit	Ex e Ex d IP 66 IP86 Flexible Conduit (various)
Washer	Explosion proof self-washing system
Composite	Optical, Power, LAN, Instrumentations (various)
Helmet	Pending

MEDIA CONVERTER	
FIBER	
Interface	100 Base-FX/1000BASE-X
Cabling	Singlemode (OS2 9/125 μm) /two fibers/SC connector
Maximum Distance	20km
Wavelength	1310 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