

IQV-AC-012 SERIES

CORROSION PROOF PTZ DOME BI-SPECTRUM CAMERA

with 2MP 40x Optical Zoom and 640x512 Thermal Imaging, ONVIF Compliant

The IQV-AC-012 Series PTZ Dome Bi-Spectrum Camera is engineered for mission-critical applications in demanding environments, delivering reliable visual and thermal monitoring in one integrated system. It features a 2MP optical camera with 40x optical zoom and a 640x512 high-resolution thermal sensor with a 12µm pixel pitch, enabling long-range imaging and fire detection. Designed for proactive threat detection, the camera supports AI-powered analytics such as dual-spectrum intrusion detection, tripwire alerts, and intelligent classification of humans, vehicles, and boats. Its rugged, marine-grade aluminum housing ensures durability in extreme weather conditions and offers comprehensive protection against dust, water, lightning, and surge, certified to IP66 standards. Ideal for perimeter defense, industrial safety, and asset protection.



Additional Features

- Rugged Anti-Corrosion Aluminum Body
- IP66-Rated Weatherproof and Dustproof Protection
- Real-Time Full HD (1080p) Output
- 12µm Thermal Imaging Sensor with Long-Range Detection
- AI-Powered Video Analytics: Intrusion, Line Crossing, Human/Vehicle/Boat Classification, Fire Detection
- Electronic Image Stabilization
- ONVIF & SDK Compatibility
- Optional Auto-Sensing Wipers

TECHNICAL INFORMATION

GENERAL & MECHANICAL	
Operating Temperature	-40°C to +60°C
Ingress Protection	IP66 (Dustproof and Waterproof)
Operating Voltages	AC 24V ±10%, PoE (IEEE 802.3at, Class 4)
Power Consumption	≤48W
Surge Protection	TVS 6000V Lightning and Surge Protection
Material	High-Strength Die-Cast Aluminum Alloy Shell
Relative Humidity	≤90% (non-condensing)
Wiper	Yes / Auto Sensing (Optional)
IR Illumination	Up to 150 metres
Mounting Options	Wall, Ceiling, Pole mount
Dimensions (Φ × H)	Φ250mm × 413mm
Weight	Approximately 7.8 kg

CERTIFICATION & COMPLIANCE	
Certifications	UL (Underwriters Laboratories) CE (European Conformity)
PTZ SPECIFICATION	
Pan Range	360° Endless
Pan Speed	0.05°– 200°/s
Tilt Range	-27° to +90° (Auto Flip)
Tilt Speed	0.05°– 120°/s
Preset Position	Up to 255 Presets
Patrol / Tours	Up to 6 Programmable Tours
Park Action	Preset / Patrol / Pattern / Scan
Optical Zoom	40x Optical Zoom
Digital Zoom	16x Digital Zoom

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TECHNICAL INFORMATION

VISUAL CAMERA					THERMAL CAMERA		
Image Sensor	2MP, 1/1.8" Progressive Scan CMOS				Image Sensor	Vanadium Oxide Uncooled FPA	
Resolution	1920×1080 pixels				Resolution	640×512 pixels	
Frame Rate	Main Stream: 25fps (1920×1080, 1280×960, 1280×720) at 50Hz; 30fps (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 (704×576, 640×480, 352×288) at 50Hz; 30fps (704×480, 640×480, 352×240) at 60Hz				Spectral Range	8~14μm	
Compression	Video: H.265, H.264 Video Bit Rate: 32Kbps~16Mbps Audio: G.711a, G.711u, G.722.1, G.726, MP2L2, AAC, PCM Audio Bit Rate: 64Kbps (G.711), 16Kbps (G.722.1, G.726), 32~192Kbps (MP2L2), 16~64Kbps (AAC)				Pixel Pitch	12μm	
Minimum Illumination	Color: 0.0001 Lux @(F1.6, AGC ON); B/W: 0.00005 Lux @(F1.6, AGC ON)				NETD	≤40 mK (@F1.0, 25°C)	
Shutter Speed	1/25~1/100,000s; Supports Delayed Shutter				Focus Mode	Athermalized Fixed Focus	
Day and Night	ICR Cut Filter				Focal Length	25mm	
Lens	Focal Length: 6.6mm~264mm Optical Zoom: 40x Digital Zoom: 16x Field of View: 59.2° × 34.8° to 1.93° × 1.14° Aperture: F1.61~F5.19 Close Focus Distance: 100mm~1500mm				Field Of View (FOV)	17.4°×14°	
Image Settings	Color, Brightness, Sharpness, Contrast, Optical Defog, Electronic Image Stabilization				Color Palettes	10 Modes	
Alarm Linkage	Video Recording, Snapshot, Email Alerts, PTZ Tracking, Audible & Visual Alarms, Alarm Output				Video Compression	H.265/H.264	
Analytics	Fire Detection, Line Crossing Detection, Human/Vehicle/Boat Classification, Intrusion Detection				Main Stream	25fps (1280×1024, 1024×768) at 50Hz; 30fps (1280×1024, 1024×768) at 60Hz	
DORI					Sub-Stream	25fps (640×512) at 50Hz; 30fps (640×512) at 60Hz	
Zoom Position	Detect	Observe	Recognize	Identify	Smart Alarm	Fire Point Detection	
Wide (6.6 mm)	67.6m	27.0m	13.5m	6.8m	LENS SELECTION		
Tele (264 mm)	2279.7m	911.9m	455.9m	228.0m	Lens	FOV (H × V) [°] @ 640×512	Minimum Focus Distance
					25mm	17.4°×14° / 10.5°×7.9°	0.316 m
					35mm	12.5°×10.0° / 7.5°×5.6°	0.229 m
					50mm	8.8°×7.0° / 5.3°×4.0°	0.160 m
					NETWORK		
					Interface	RJ45 10Base-T/100Base-TX	
					ONVIF	ONVIF (Profile S, Profile G)	
					Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6	