Q83

20MP Outdoor Multi-Imager 360 Degree Dome with D/N, Adaptive IR, Superior WDR, SLLS, 2.85x Zoom Lens

- 20 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- Superior WDR
- H.265 Compression
- Built-in Analytics
- Event trigger, response and notification

▶ Specifications

Device

Product Type	Multi-Imager 360 Degree Dome
Maximum Resolution	20MP
Application Environment	Outdoor
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3 "
Effective Pixels	2608(H) X 1964(V) (5.12 MP) x 4 (Total: 20 MP)
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.003 lux; B/W: 0 lux (IR LED on)
Color to B/W Switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	Adaptive IR LED
IR Working Distance	30m
Electronic Shutter	1-1/10000 second (manual mode); 1-1/10000 second (auto mode)

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S/N Ratio	75 dB

Lens

Number of Lenses	4 Lenses
Focal Length	Zoom, f2.8-8.0mm
Aperture	F1.6
Zoom Ratio	2.85x optical zoom, 10x digital zoom
Iris	Auto iris
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	360°
Viewing Angle Adjustment	Pan: ±90°, Tilt: 0°-95°, Rotation: ±90°, Twist: ±20°

Video

Compression	H.265, H.264, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 2560 x 1920
Multi-Streaming	Simultaneous quad streams
Bit Rate Mode	Constant, Variable
Wide Dynamic Range	Superior WDR (120 dB)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Saturation, Backlight compensation (BLC)
Digital Noise Reduction	2D + 3D DNR
Privacy Mask	Yes
Text Overlay	Yes
Built-in Analytics	Deep Learning : Face Recognition, Face Detection, People Detection, Vehicle Detection, Object Based Motion Detection, Tampering Detection, Object Line Crossing Detection, Object Area Counting, Intrusion Detection (Forbidden Area Detection), Missing Object Detection, Unattended Object Detection, Object Loitering Detection, People Counting, People Line Crossing Detection, People Enter Area Detection, People Incorrect Direction Detection, People Loitering Detection, People Tracking, Vehicle Counting, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Incorrect Direction Detection, Vehicle Loitering Detection, Vehicle Tracking, Stopped vehicle detection, License Plate Detection, Automatic License Plate Recognition

Audio

Audio Type	2-way, Built-in Microphone, Line-in, Line-out
Audio Compression	G.711, G.726, AAC, PCM

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DDNS, NTP, RTP, RTSP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, QoS, SNMP, IEEE 802.1X
Ethernet Port	1 x Ethernet (10/100/1000 Base-T), RJ-45 connector
Security	IP address filtering, HTTPS encryption, Password protected user level, IEEE 802.1X network access control

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Event

Event Trigger	Video motion detection, External device through digital input, Sound detection, Intelligent event detection
Event Response	E-mail notification with snapshots, Save video to local storage, Upload snapshot to FTP server, Activate external device through digital output

System

Watchdog	Support
USB	1-Port USB Type A

Integration

Unified Solution	Fully compatible with ACTi software
Edge Recording	Support (integration with NVR by ONVIF Profile G)
ONVIF Compliant	Yes, Profile S, Profile G, Profile T, Profile M
Web Browser	Microsoft Edge(IE mode), Microsoft Edge, Google Chrome, Firefox

Storage

User Database	User Capacity: 10,000 (up to 5 images per person)

Interface

Audio Interface	1/1, Terminal block
Local Storage	MicroSD, MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only), M.2 SSD slot (SSD not included; compliant with SATA 3 interface)
Digital Input/Output	2/2 (Terminal block)

General

Power Source	DC 24V, AC 24V, PoE Class 6 (IEEE802.3bt)
Weight	2400g (5.29lb)
Dimensions	(Ø x H): 255mm x 105mm (10.04" x 4.13")
Environmental Casing	Weatherproof (IP66), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.
Mount Type	Wall Mount, Pole Mount, Pendant, Corner Mount
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Approvals	CE Class A, FCC Class A, IP66, IK10

▶ Related Products

Mounting Accessories - Camera Mount

PMAX-0115		Pendant Mount (for A950, A951, A952, A956, Z950, Z952)

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PMAX-0116		Straight Tube, 200 mm (for Z950)
PMAX-0117		Straight Tube (for Z950, Z952)
PMAX-0346		Heavy Duty Wall Mount with Converter Ring (for Q75, A950, A951, A952, A956)
PMAX-0402		Corner Mount
PMAX-0531		Pole mount for A951
PMAX-0702		Junction Box for PTZ and Dome Cameras
PMAX-1034		Flush Mount for Q83
PMAX-1404		Mount Kit for Q83

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.

Power Supply Accessories - Power Adapter

| PPBX-0022 | | Power Adapter for A951 |

Power Supply Accessories - PoE Injector

| PPOE-0201 | | High PoE Injector Single-port, IEEE 802.3bt Type 4, Gbps, 90W 4-Pairs POE indoor midspans, AC 100~240V, with universal connectors (for Z954, Q83) |

Data Cables - BNC Converter Cable

| PIOC-0600 | | |

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