Z956

4MP Deep Learning AI 33x Outdoor PTZ with WDR 145dB



- 4 Megapixel, 33x, PTZ
- Deep Learning AI
- Extreme WDR (145 dB)
- Color Min. Illumination 0.003 lux
- PTZ Auto Tracking, 360° endless
- Smart Motion Detection
- Counting
- DORI (105.8-3172.5 / 42.3-1269.0 / 21.2-634.5 / 10.6-317.3m)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

Specifications

Product Profile

Product Type	PTZ
Application Environment	Outdoor
Maximum Resolution	4MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Effective Pixels	2592(H) X 1944(V) (5.04 MP)
Day / Night	Yes
Low Light Sensitivity	Extreme
Minimum Illumination	B/W: 0.001 lux
Mechanical IR Cut Filter	Yes
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

Lens

Focal Length	Zoom, f4.5-148.5mm
Aperture	F1.5-F4.0
Zoom Ratio	33x optical zoom, 16x digital zoom

Iris	Auto iris
Focus	Auto focus
Horizontal Viewing Angle	51.4° - 2.5°
Vertical Viewing Angle	30.3° - 1.4°

PTZ

Manual Panning / Tilting Speed	2° - 200°/second, 2° - 200°/second
Preset Panning / Tilting Speed	400°/second, 240°/second
Panning Range	360° endless
Tilting Range	1°~90°
PTZ Control	Remote manual control, Speed Control, Drag to Pan and Tilt, 1024 preset points, 16 preset tours
Absolute Position	Yes

Video

Compression	H.265 Adaptive Stream, H.264, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 360 30 fps at 720 x 576 30 fps at 704 x 288 30 fps at 352 x 288
Bit Rate	128Kbps - 16Mbps
Multi-Streaming	Simultaneous triple streams
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (145 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode) (90º, 180º, 270º)
Image Enhancement	White Balance, Backlight compensation (BLC), Defogging
Privacy Mask	24 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), Face Detection, Object Line Crossing Detection, Intrusion Detection (Forbidden Area Detection), Object Enter Area Detection, Object Exit Area Detection, Tampering Detection, Missing Object Detection, Unattended Object Detection, People Flow Counting, People Density Counting, PTZ Auto Tracking

Analytics

Deep Learning AI	2.0

Audio

Audio Type	2-way, Line-in, Line-out
Audio Compression	G.711 u-law, G.711 A-law

Network

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

Detection Range

Observation Range	Detection: 105.8m-3172.5m Observation: 42.3m-1269.0m Recognition: 21.2m-634.5m Identification: 10.6m-317.3m

Event

Event Trigger	Video motion detection, Tampering detection, Intelligent event detection, Sound detection, External device through digital input, Video loss
Event Response	Notify control center, Go to PTZ preset point or preset tour, E-mail notification with snapshots, Save video or snapshot to storage, Upload snapshot to FTP server, Activate external device through digital output

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
Web Browser	IE 11, Google Chrome, Microsoft Edge, Firefox

Interface

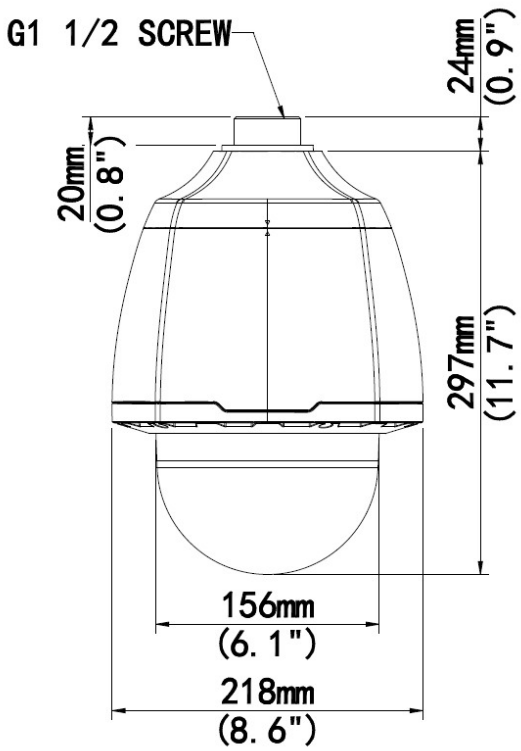
Serial Port	1 x RS-485
Analog Video Output	1 x BNC connector
Digital Input/Output	7/2
Operating Button	Reset Button

General

Power Source	DC 24V, AC 24V, High PoE (IEEE802.3at)
Power Consumption	16 W (PoE)
Weight	4070g (8.97lb)
Dimensions	(Ø x H): 218mm x 297mm (8.6" x 11.7")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Bundled Accessories	Power Adapter (DC 24V)
Mount Type	Wall Mount, Pole Mount, Corner Mount
Fan	Yes
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Operating Humidity	≤95% RH, non-condensing
Surge Protection	6KV
Approvals	CE Class A, FCC Class A, IP68, IK10, UL Listed
Color	White
Real-time Clock (RTC)	Yes
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

* The built-in analytics functions will be compatible with ZNR servers.

Dimension Diagram



Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

PMAX-0104		Extension Tube
PMAX-0115		Pendant Mount (for A950, A951, A952, A956, Z950, Z952)
PMAX-0116		Straight Tube, 200 mm (for Z950)
PMAX-0117		Straight Tube (for Z950, Z952)
PMAX-0126		Straight Tube with Bracket and Converter Ring (for Q75)
PMAX-0322		Wall mount (for Z950, Z952)
PMAX-0343		Gooseneck with Bracket with Converter Ring (for Q75)
PMAX-0344		Gooseneck with Converter Ring (for Q75)

PMAX-0346		Heavy Duty Wall Mount with Converter Ring (for Q75, A950, A951, A952, A956)
PMAX-0358		Parapet Wall Mount (for Z95X, Q84).
PMAX-0402		Corner Mount
PMAX-0404		Corner Mount (for Z950, Z952)
PMAX-0503		Pole Mount (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" Poles
PMAX-0513		Pole Mount (for Z950, Z952)
PMAX-0702		Junction Box for PTZ and Dome Cameras
PMAX-0711		Junction box (for Z950, Z952)
PMAX-0807		Gangbox Converter (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0321), supports Two-Gang Boxes
PMAX-1037		Flush Mount (for Z956)
PMAX-1403		Ceiling Mount (for Z950, Z952)
R707-30001		Converter Ring (for Z956)

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

Power Supply Accessories - PoE Injector

PPOE-0107		High PoE Injector IEEE 802.3at compliant, AC 100~240V, with universal connectors (for A416, A418, B913, B923, B934, Q450, Q75, VMGB-60X, Z37, Z71, Z952)

Network & Storage Peripherals - Data Switch

PPSW-0102		PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W)
PPSW-0108		8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W)
PPSW-0109		8-Port 802.3at Smart Managed PoE Switch (PoE Budget 120W)
PPSW-1101		PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W)
PPSW-1107		24-port 10/100/1000Mbps PoE, Smart Managed Gigabit Ethernet PoE Switch

PPSW-2105		4-Port 802.3at Smart Managed Gigabit PoE Switch
PPSW-3101		16-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 240W)
PPSW-3103		16-Port 802.3at PoE Switch (PoE Budget 250W)
PPSW-3104		16-Port 802.3at Smart Managed PoE Switch (PoE Budget 250W)
PPSW-3402		16-Port 10/100/1000T 802.3bt PoE + 8-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch
PPSW-4205		24-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Switch (PoE Budget 300W)

Audio Devices - Microphone

PMIC-0100		Active Microphone Omnidirectional for all Cameras with Line-in Audio

Other Accessories - Camera Part

R707-X0016		Rubber-GX waterproof (for Z cameras) (5pcs/BOX)

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