A956

2MP Deep Learning AI 40x Outdoor PTZ with IR LED 300m, WDR 150dB



- 2 Megapixel, 40x, PTZ
- Deep Learning AI
- IR LED 300m, Extreme WDR (150 dB)
- Color Min. Illumination 0.002 lux
- Frame Rate 60fps
- PTZ Auto Tracking, 360° endless
- Smart Motion Detection, Smart Intrusion Protection, Object Metadata
- Face Recognition, Counting
- Automatic License Plate Recognition
- Weatherproof (IP66), Vandal proof (IK10)

Specifications

Product Profile

Product Type	PTZ
Product Application	Face, People and Car Detection, ALPR
Application Environment	Outdoor
Maximum Resolution	2MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Effective Pixels	1945(H) X 1097(V) (2.13 MP)
Day / Night	Yes
Low Light Sensitivity	Extreme
Minimum Illumination	B/W: 0.001 lux
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	Adaptive IR LED x 8 (850 nm)
IR Working Distance	300m
Electronic Shutter	1-1/10000 second (manual mode); 1-1/10000 second (auto mode)
S/N Ratio	75 dB

Number of Traffic Lanes	1

Lens

Focal Length	Zoom, f4.3-170mm
Aperture	F1.6
Zoom Ratio	40x optical zoom, 10x digital zoom
Iris	P-Iris
Focus	Auto focus
Horizontal Viewing Angle	66.1° - 1.8°
Vertical Viewing Angle	39.8° - 1.1°

PTZ

Manual Panning / Tilting Speed	0.1° - 90°/second, 0.1° - 55°/second
Preset Panning / Tilting Speed	300°/second, 300°/second
Panning Range	360° endless
Tilting Range	-20°~100°
PTZ Control	Remote manual control, Speed Control, Drag to Pan and Tilt, Click to Center, 256 preset points, Auto scan
Absolute Position	Yes

Video

Compression	H.265 Adaptive Stream, H.264, MJPEG
Maximum Frame Rate vs. Resolution	60 fps at 1920 x 1080 30 fps at 1280 x 1024 30 fps at 1280 x 720 30 fps at 1024 x 768 30 fps at 800 x 600 30 fps at 720 x 480 25 fps at 720 x 576 30 fps at 640 x 480 30 fps at 352 x 240 25 fps at 352 x 288 30 fps at 320 x 240
Bit Rate Mode	Constant, Variable
Multi-Streaming	Quad streams (4)
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (150 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode) (90º, 180º, 270º)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Saturation, Backlight compensation (BLC), Digital Image Stabilizer (DIS, EIS)
Privacy Mask	5 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), Smart Intrusion Protection (, People Line Crossing Detection, People Intrusion Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Intrusion Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection), Tampering Detection, Missing Object Detection, Unattended Object Detection, Crowd Detection, People Loitering Detection, People Tracking, People Flow Counting, People Density Counting, Vehicle Flow Counting, Vehicle Density Counting, Vehicle Tracking, Face Detection, Face Capture, Face Matching, Face Recognition, Face Tracking, Object Metadata (, Age Detection, Gender Detection, Face Mask Detection, Vehicle Type Detection, Vehicle Driving Direction Detection), Stopped vehicle detection, Incorrect Direction Detection, License Plate Detection, Automatic License Plate Recognition, PTZ Auto Tracking

Analytics

Camera Object Metadata	Age, Gender, Mask, Vehicle type, Vehicle driving direction
Deep Learning AI	2.0

Audio

Audio Type	2-way, 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

Detection Range

Observation Range	Detection: People 2444m; Vehicle 2250m Observation: People 970m; Vehicle 893m Recognition: People 489m; Vehicle 450m Identification: People 244m; Vehicle 225m

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 storage, Upload snapshot to FTP server, Activate external device through digital output

System

Watchdog	Support

Integration

Unified Solution	Fully compatible with ACTi software
Edge Recording	Support (integration with NVR by ONVIF Profile G)
ONVIF Compliant	Yes, Profile G, Profile T, Profile Q, Profile M
Web Browser	Microsoft Edge(IE mode), Microsoft Edge, Google Chrome, Firefox
Supported Countries	Austria / Azerbaijan / Belarus / Belgium / Bosnia and Herzegovina / Bulgaria / Croatia / Cyprus / Czechia / Denmark / Estonia / Finland / France / Georgia / Germany / Greece / Hungary / Ireland / Italy / Japan / Kyrgyzstan / Latvia / Lithuania / Luxembourg / Moldova / Monaco / Montenegro / Netherlands / Macedonia / Norway / Poland / Portugal / Romania / Serbia / Slovakia / Slovenia / Spain / Sweden / Switzerland / Taiwan / United Kingdom / Ukraine / United States / Vietnam

Storage

User Database	User Capacity: 10,000 (up to 5 images per person)
Blocklist/Allowlist	People, Vehicle

Interface

Audio Interface	1/1, Terminal block
Analog Video Output	1 x BNC connector
Digital Input/Output	4/2 (Terminal block)
Operating Button	Reset Button

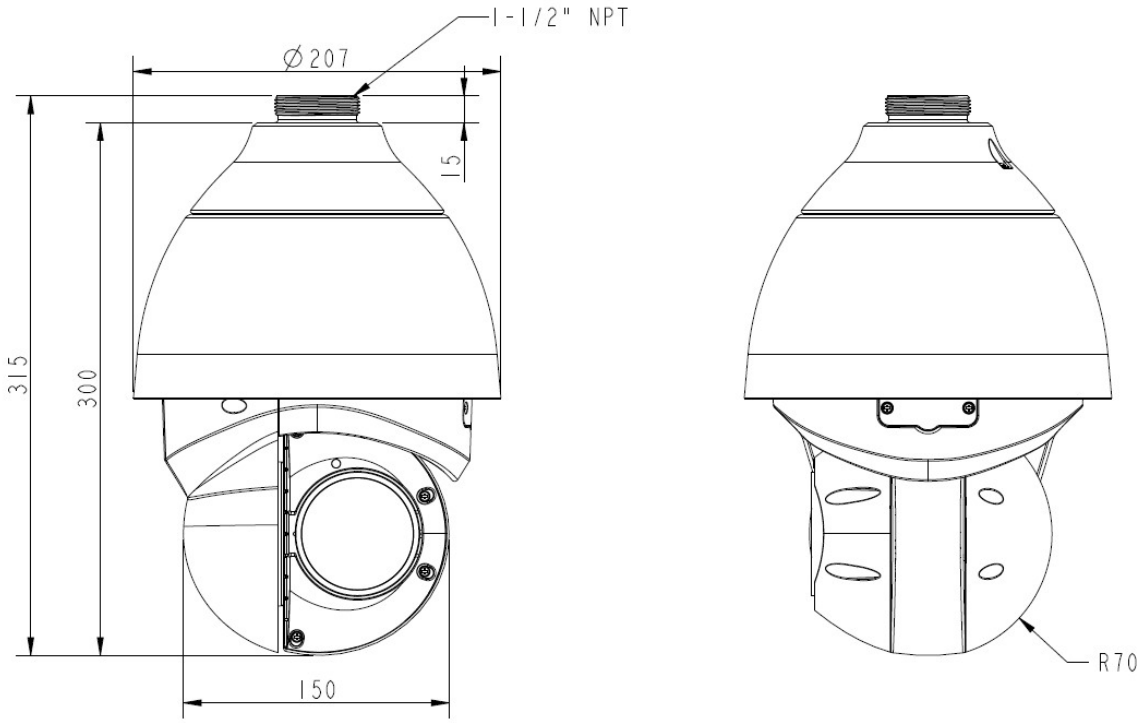
Installation

Vehicle Capture Speed	Front-Installation: 80 km/h Side-Installation: 60 km/h

General

Power Source	AC 24V, PoE Type 3 Class 6 (IEEE802.3bt)
Power Consumption	51 W (PoE)
Dimensions	(Ø x H): 207mm x 300mm (8.15" x 11.81")
Environmental Casing	Weatherproof (IP66), Vandal proof metal casing (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Heater	Yes
Operating Temperature	-40°C ~55°C (-40°F ~ 131°F) heater on
Approvals	CE Class A, FCC Class A, IP66, IK10 (metal casing)
Color	White
Real-time Clock (RTC)	Yes
Warranty	3 Year(s) (1 year in continuous motion). For extended warranty offering, see http://www.acti.com/support/warranty

Dimension Diagram



Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

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-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-0402		Corner Mount
PMAX-0531		Pole mount for A951
PMAX-0702		Junction Box for PTZ and Dome Cameras

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-0202		High PoE injector 90Watt 10/100/1000M/Multi Gigabit PoE Injector (for A952, A956, Z953, Z954, Q83, Q84)

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)

2026/10/15

- For product and mounting accessory information, visit: www.acti.com/products and www.acti.com/mountingselector
- All specifications are subject to change without notice.