

K953

5MP Deep Learning AI ColorGuard LightGuard 33x Outdoor PTZ with IR LED 250m, ColorVizion, WDR 145dB



- 5 Megapixel, 33x, PTZ
- Deep Learning AI, LightGuard, ColorGuard
- IR LED 250m, Extreme WDR (145 dB)
- Color Min. Illumination 0.003 lux, ColorVizion
- Frame Rate 60fps
- PTZ Auto Tracking
- Smart Motion Detection, Smart Intrusion Protection
- Face Recognition, Counting
- DORI (105.8-3172.5 / 42.3-1269 / 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	5MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Day / Night	Yes
Low Light Sensitivity	Extreme
ColorGuard	Yes
LightGuard	Yes
ColorVizion	Yes
Minimum Illumination	Color: 0.003 lux; B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED
IR Working Distance	250m

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	53.9° - 3.0°
Vertical Viewing Angle	31.92° - 1.69°

PTZ

Panning Range	0°~360° (endless)
Tilting Range	-15°~90° (with E-flip)
Preset Panning Speed	0.1° - 288°/second
Preset Tilting Speed	0.1° - 288°/second
PTZ Control	Remote manual control, Speed Control, 1024 preset points, 16 preset tours

Video

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.265, H.264 Adaptive Stream (equivalent to Zip or Smart Stream or H.264+), H.264, MJPEG
Smart ROI	Yes, supports up to 8 configurable regions per supported stream
Maximum Frame Rate vs. Resolution	60 fps at 2880 x 1620 60 fps at 2688 x 1520 60 fps at 2560 x 1440 60 fps at 1920 x 1080 60 fps at 720 x 576
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
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Backlight compensation (BLC), Highlight compensation (HLC), Automatic gain control (AGC), Gyro-based Image Stabilizer, Digital Image Stabilizer (DIS, EIS), Defogging
Privacy Mask	24 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), Missing Object Detection, Unattended Object Detection, Face Detection, Face Capture, Face Recognition, People Flow Counting, People Density Counting, PTZ Auto Tracking (, People Tracking, Vehicle Tracking)

Analytics

Camera Object Metadata	Age, Gender, Glasses, Mask, Vehicle type
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Deep Learning AI	2.0
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Audio

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

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, QoS, TLS 1.2, TLS 1.3, SSH, SNMP, IEEE 802.1X, NFS
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
Security	IP address filtering, HTTPS encryption, TLS v1.2, TLS v1.3 encrypted communication, Digest Authentication (HTTP/RTSP/ONVIF(WSSE)), Password protected user level, Password Strength Indicator, IEEE 802.1X network access control

Detection Range

Observation Range	Detection: 105.8m-3172.5m Observation: 42.3m-1269m Recognition: 21.2m-634.5m Identification: 10.6m-317.3m
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Event

Event Trigger	External device through digital input, Intelligent event detection
Event Response	E-mail notification with snapshots, Save video or snapshot to storage, Upload video or snapshot to FTP server, Save video to NAS storage via NFS, Activate external device through digital output

Integration

ONVIF Compliant	Yes, Profile S, Profile G, Profile T, Profile M
Web Browser	IE 11, Microsoft Edge, Google Chrome, Firefox

Storage

User Database	Face Picture Capacity: 100000
Blocklist/Allowlist	People: up to 32 records

Interface

Serial Port	1 x RS-485
Digital Input/Output	2/1
Operating Button	Reset Button

General

Power Source	AC 24V, DC 24V, High PoE (IEEE802.3at)
Power Consumption	25 W (PoE)
Weight	5300g(11.68lb)
Dimensions	(Ø x H): 227mm x 390mm (8.9" x 15.4")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)

Storage 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, BSMI, UL Listed
Color	White
Real-time Clock (RTC)	Yes
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

► 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 PMA-0102, PMA-0312, PMA-0313, PMA-0314, PMA-0702, PMA-1106, PMA-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-1403		Ceiling Mount (for Z950, Z952)

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)
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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)