

# A972

## 4MP 32x Outdoor Thermal PTZ with IR LED 100m, WDR 120dB

- 4 Megapixel, 32x, Thermal PTZ
- Aperture F1.0, IR LED 100m, Superior WDR (120 dB)
- PTZ Auto Tracking, 360° endless
- Smart Intrusion Protection
- Weatherproof (IP66), Vandal proof (IK10)
- Overheating Detection, Fire Detection, Thermal Surveillance
- Thermal Resolution 256(H) X 192(V), NETD <35mK
- Fire detection up to 833m

## Specifications

### Product Profile

Product Type	Thermal PTZ
Product Application	Overheating Detection, Fire Detection, Thermal Surveillance
Application Environment	Outdoor
Maximum Resolution	4MP
Image Sensor	Progressive Scan CMOS + Thermal sensor
Sensor Size	Optical: 1/2.7"
Effective Pixels	Thermal: 256(H) X 192(V) Optical: 2688(H) X 1520(V)
Pixel Interval	12 µm
Spectral Range	8-14 µm
Thermal Sensitivity	NETD <35mK at F1.0
Spatial Resolution	1.2 mrad
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.05 lux at F1.2 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes

IR LED	Adaptive IR LED
IR Working Distance	100m
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

**Lens**

Number of Lenses	2 Lenses
Focal Length	Fixed focal, f10mm (Thermal camera) Zoom, f4.8-153mm (Visual camera)
Aperture	(Thermal camera) F1.0 (Visual camera) F1.2-F4.4
Zoom Ratio	32x optical zoom
Horizontal Viewing Angle	(Thermal camera) 18.1° (Visual camera) 58.8° - 2.18°
Vertical Viewing Angle	(Thermal camera) 13.6° (Visual camera) 34.4° - 1.2°

**PTZ**

Manual Panning / Tilting Speed	0.1° - 200°/second, 0.1° - 105°/second
Preset Panning / Tilting Speed	240°/second, 200°/second
Panning Range	360° endless
Tilting Range	-5°~90° (with E-flip)

**Video**

Compression	H.265 Adaptive Stream, H.264 Adaptive Stream, MJPEG
Maximum Frame Rate vs. Resolution	(Visual camera) 30 fps at 2688 x 1520 30 fps at 1920 x 1080 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 704 x 576 30 fps at 352 x 288 (Thermal camera) 25 fps at 1280 x 720 30 fps at 704 x 576 30 fps at 640 x 512 30 fps at 256 x 192
Multi-Streaming	Simultaneous dual streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Superior WDR (120 dB)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Automatic gain control (AGC), Defogging
Built-in Analytics	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, Temperature Detection, Fire Detection, Smoke Detection, PTZ Auto Tracking

**Audio**

Audio Type	2-way, Mic-in, Line-in, Line-out
Audio Compression	G.711 u-law, G.711 A-law, G.722.1, G.726, MP2L2, PCM

**Network**

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

## Temperature Measurement

Temperature Measurement Rules	3 types (point, area, line), 273 preset scenes, each with up to 21 rules in total (10 points, 10 areas, 1 line)
Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F)
Temperature Accuracy	±8°C (14.4°F)

## Detection Range

Triggering Analytics Event Notification	(People 1.8x0.5m) 80m (Vehicle 1.4x4.0m) 240m
Triggering Temperature Notification	(Object 0.5x0.5m) 83m (Object 0.2x0.2m) 33m ( )
Triggering Fire Detection Event Notification	(Object 2x2m) 833m (Object 1x1m) 417m(
Observation Range	Detection: People 417m; Vehicle 1278m Recognition: People 104m; Vehicle 319m Identification: People 52m; Vehicle 160m (People: 1.8 x 0.5m) (Vehicle: 1.4 x 4.0m)

## Integration

ONVIF Compliant	Yes, Profile G, Profile T
Web Browser	IE 11, Google Chrome, Firefox

## Interface

Analog Video Output	1 x BNC connector
Digital Input/Output	7/2

## General

Power Source	AC 24V, DC 36V, DC 48V, High PoE
Power Consumption	30 W (PoE)
Weight	3900g (8.6lb)
Dimensions	(Ø x H): 185mm x 305mm (7.28" x 6.42")
Environmental Casing	Weatherproof (IP66), Vandal proof (IK10)
Corrosion Protection	Ordering Number will be created upon orders.. Chassis corrosion resistance at the seashore approximately 3 years.
Bundled Accessories	Power Adapter (DC 36V)
Operating Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Operating Humidity	≤70% RH, non-condensing

## Related Products

### Mounting Accessories - Camera Mount

PMAX-0135	Pendant Mount (for A966, A967, A967B, A967B-2MP, A972, A973)
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PMAX-0364	Wall Mount with Junction Box for A966, A967, A967B, A967B-2MP, A972
PMAX-0371	Wall mount for A966, A967, A967B, A967B-2MP, A972.
PMAX-0410	Corner Mount with Junction Box for A966, A967, A967B, A967B-2MP, A972
PMAX-0537	Pole Mount (for A966, A967, A967B, A967B-2MP, A972) supports 2.64" to 5" Poles
PMAX-0542	Horizontal Pole Mount (for A966, A967, A967B, A967B-2MP, A972), supports 2.64" to 5" Poles
PMAX-0824	Converter Ring for A966, A967, A967B, A967B-2MP, A972

**Note:** Some mounting accessories may need additional accessories for installation. Please check [www.acti.com/mountingselector](http://www.acti.com/mountingselector) for more information.

**Power Supply Accessories - Power Adapter**

PPBX-0022	Power Adapter for A951
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**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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