

# A374-P1

**4MP Deep Learning AI f6.9mm Thermal Bullet with IR LED 30m, White LED 30m, Smart Dual Light, WDR 120dB**



- 4 Megapixel, f6.9mm, Thermal Bullet
- Deep Learning AI
- Aperture F1.6, IR LED 30m, Superior WDR (120 dB)
- White LED 30m, Smart Dual Light
- Smart Intrusion Protection
- Weatherproof (IP68), Vandal proof (IK10)
- Overheating Detection, Fire Detection, Thermal Surveillance
- Thermal Resolution 256(H) X 192(V), NETD <40mK
- Fire detection up to 82.8m

## Specifications

### Product Profile

Product Type	Thermal Bullet
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 <40mK at F1.0
Spatial Resolution	1.74 mrad
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.0089 lux at F1.6 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes

IR LED	Adaptive IR LED
IR Working Distance	30m
White LED	Yes
White LED Working Distance	30m
Smart Dual Light	Yes. Default IR; White Light can be enabled through configuration.
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

**Live View**

Digital Zoom	Yes
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**Lens**

Number of Lenses	2 Lenses
Focal Length	Fixed focal, f6.9mm (Thermal camera) Fixed focal, f6.4mm (Visual camera)
Aperture	(Thermal camera) F1.0 (Thermal camera) F1.6
Horizontal Viewing Angle	(Thermal camera) 24.9° (Visual camera) 53°
Vertical Viewing Angle	(Thermal camera) 18.7° (Visual camera) 28°

**Video**

Compression	H.265, H.264, MJPEG
Maximum Frame Rate vs. Resolution	(Visual camera) (60Hz) 30 fps at 2688 x 1520 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 704 x 480 30 fps at 352 x 240 (50Hz) 25 fps at 2688 x 1520 30 fps at 1920 x 1080 25 fps at 1280 x 720 25 fps at 704 x 576 25 fps at 352 x 288 (Thermal camera) 25 fps at 1280 x 720 25 fps at 704 x 576 25 fps at 640 x 512 25 fps at 320 x 240
Multi-Streaming	Simultaneous dual streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Superior WDR (120 dB)
Image Enhancement	White Balance, Automatic gain control (AGC)
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, Smoking Detection, Sun-reflection Filter, Forklift Alarm Filter

**Analytics**

Deep Learning AI	1.0
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**Audio**

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

**Network**

Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
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## Temperature Measurement

Temperature Measurement Rules	3 types (point, area, line), up to 21 rules in total (10 points, 10 areas, 1 line)
Temperature Range	-20°C ~ 550°C (-4°F ~ 1022°F)
Temperature Accuracy	±2°C, ±2%

## Detection Range

Triggering Analytics Event Notification	(People 1.8x0.5m) 55.2m (Vehicle 1.4x4.0m) 144.9m (Supported Analytics Events included Line Crossing Detection, Enter Area Detection and Exit Area Detection for People, Vehicle and any objects.)
Triggering Temperature Notification	(Object 0.2x0.2m) 23.3m (Object 1x1m) 116.7m
Triggering Fire Detection Event Notification	(Object 0.2x0.2m) 82.8m
Triggering Smoke Detection Event Notification	(Object 0.5x0.5m) 18m
Triggering Smoking Detection Event Notification	10.35m
Observation Range	Detection: People 287m; Vehicle 881m Recognition: People 72m; Vehicle 220m Identification: People 36m; Vehicle 110m (People: 1.8 x 0.5m) (Vehicle: 1.4 x 4.0m)

## Integration

ONVIF Compliant	Yes, Profile G
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## Interface

Serial Port	1 x RS-485
Audio Interface	1/1, 3.5mm Phone Jack
Digital Input/Output	2/2

## General

Power Source	DC 12V, AC 24V, PoE Class 3 (IEEE802.3af)
Power Consumption	8.5 W (DC), 8.5 W (AC), 8.5 W (PoE)
Dimensions	(L x W x H): 321.3mm x 106.1mm x 107.0mm (12.65" x 4.18" x 4.21")
Environmental Casing	Weatherproof (IP68), Vandal proof metal casing (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Operating Humidity	≤95% RH, non-condensing
Warranty	3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>

## Related Products

### Mounting Accessories - Camera Mount

PMAX-0407



Corner Mount (for A42x, A42xD, A570, A570-P1, A570-P2, A7xD, A82xD, VMGB-359, VMGB-359-P1)

PMAX-0524



Pole Mount (for A46, A421, A422, A423, A425, VMGB-359), supports 2.64" to 5" Poles

**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 - 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)