

K372

4MP Deep Learning AI LightGuard f10mm Thermal Bullet with IR LED 50m, WDR 120dB



- 4 Megapixel, f10mm, Thermal Bullet
- Deep Learning AI, LightGuard
- IR LED 50m, Superior WDR (120 dB)
- Color Min. Illumination 0.005 lux
- Smart Intrusion Protection
- DORI (90 / 36 / 18 / 9m)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed
- Overheating Detection, Fire Detection, Thermal Surveillance
- Thermal Resolution 640(H) X 512(V), NETD <30mK

► 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: 640(H) X 512(V) Optical: 2688(H) X 1520(V)
Pixel Interval	12 µm
Spectral Range	8-14 µm
Thermal Sensitivity	NETD <30mK at F1.0
Spatial Resolution	1.2 mrad
Day / Night	Yes
Low Light Sensitivity	Superior
LightGuard	Yes
Minimum Illumination	Color: 0.005 lux at F1.6 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes

IR LED	Adaptive IR LED (750 nm)
IR Working Distance	50m
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) Fixed focal, f4.0mm (Visual camera)
Aperture	F1.0 (Thermal camera) F1.6 (Visual camera)
Iris	Fixed iris
Focus	Fixed focus
Horizontal Viewing Angle	48° (Thermal camera) 77.4° (Visual camera)
Vertical Viewing Angle	38.3° (Thermal camera) 42.2° (Visual camera)

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 640 x 360 30 fps at 704 x 288 30 fps at 352 x 288 (Thermal camera) 30 fps at 1920 x 1080
Bit Rate	128Kbps - 16Mbps
Multi-Streaming	5 streams
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Superior WDR (120 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode)
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Defogging
Privacy Mask	8 configurable regions
Text Overlay	Yes
Color Palette	17 different color palettes
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), Tampering Detection, Temperature Detection, Fire Detection

Analytics

Deep Learning AI	1.0
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Audio

Audio Type	2-way, Built-in Microphone, Built-in Speaker, 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, FTP, SMTP, IGMP, ICMP, ARP, UPnP, SNMP, QoS, SSL/TLS, SSH, 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
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Temperature Measurement

Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F), 100°C ~ 550°C (212°F ~ 1022°F)
Temperature Accuracy	±8°C (14.4°F), ±8%

Detection Range

Triggering Analytics Event Notification	(People 1.8x0.5m) 100m (Vehicle 4.0x1.4m) 300m
Observation Range	Detection: 90m Observation: 36m Recognition: 18m Identification: 9m Detection: People 370m; Vehicle 750m Recognition: People 100m; Vehicle 200m Identification: People 60m; Vehicle 130m (People: 1.8 x 0.5m) (Vehicle: 4.0 x 1.4m)

Event

Event Trigger	Video motion detection, External device through digital input, Sound detection, Temperature Detection, Intelligent event detection
Event Response	E-mail notification with snapshots, Flashing alarm light, Play alert sound, Upload snapshot to FTP server, Save video or snapshot to storage, Activate external device through digital output

Integration

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

Interface

Serial Port	1 x RS-485
Audio Interface	2/1, Terminal block, Built-in microphone, Built-in Speaker
Analog Video Output	1 x BNC connector, for installation only
Digital Input/Output	3/2
Operating Button	Reset Button

General

Power Source	DC 12V, PoE (IEEE802.3at)
Power Consumption	25.5 W (PoE)
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)
Operating Humidity	≤85% RH, non-condensing
Surge Protection	6KV
Approvals	CE, FCC, IP68, IK10, UL Listed
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-0409		Corner Mount (for A7x, Z714, Z724, Z8x, Z9x, Z972, Q550, K3x, K5x, K7x)
PMAX-0538		Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550, K3x, K5x, K7x) , supports 2.64" to 5" Poles

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

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)