

# Z512

## 5MP Deep Learning AI ColorGuard f2.8mm Outdoor Fixed Turret with IR LED 50m, White LED 50m, Smart Dual Light, WDR 130dB



- 5 Megapixel, f2.8mm, Fixed Turret
- Deep Learning AI, ColorGuard
- IR LED 50m, Extreme WDR (130 dB)
- White LED 50m, Smart Dual Light, Color Min. Illumination 0.003 lux
- Smart Motion Detection
- DORI (56 / 22.6 / 11.2 / 5.6m)
- Weatherproof (IP68), UL Listed

## Specifications

### Product Profile

Product Type	Fixed Turret
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
Minimum Illumination	Color: 0.003 lux at F1.6 (AGC on); B/W: 0 lux (Light on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED (850 nm)
IR Working Distance	50m
White LED	Yes
White LED Working Distance	50m
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

## Lens

Focal Length	Fixed focal, f2.8mm
Aperture	F1.6
Iris	Fixed iris
Focus	Fixed focus
Horizontal Viewing Angle	100.7°
Vertical Viewing Angle	51.5°
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 0°-80°, Rotation: 0°-360°

## Video

Compression	H.265 Adaptive Stream, H.264 Adaptive Stream, MJPEG
Maximum Frame Rate vs. Resolution	20 fps at 2560 x 1920 25 fps at 2560 x 1440 30 fps at 2304 x 1296 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 720 x 576 30 fps at 640 x 360 30 fps at 704 x 288 30 fps at 352 x 288
Multi-Streaming	Simultaneous dual streams
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (130 dB)
Image Orientation	Flip, Mirror
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Defogging
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), Tampering Detection

## Analytics

Deep Learning AI	1.0
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## Audio

Audio Type	1-way, Built-in Microphone
Audio Compression	G.711

## Network

Network Protocol & Service	IPv4, TCP, UDP, DHCP, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, IGMP, ICMP, ARP, UPnP, SNMP, SSL/TLS, TLS 1.2, QoS, NFS
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
Maximum User Connections	32
Security	IP address filtering, HTTPS encryption, Password protected user level

## Detection Range

Observation Range	Detection: 56m Observation: 22.6m Recognition: 11.2m Identification: 5.6m
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**Event**

Event Trigger	Video motion detection, Tampering detection, Sound detection
Event Response	Save video to storage, Save video to NAS storage via NFS

**Integration**

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

**Interface**






Operating Button	No
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**General**

Power Source	DC 12V, PoE (IEEE802.3af)
Power Consumption	3.9 W (PoE)
Dimensions	(Ø x H): 117.8mm x 100.3mm (4.6" x 3.9")
Environmental Casing	Weatherproof (IP68)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Starting Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Humidity	≤95% RH, non-condensing
Surge Protection	4KV
Approvals	CE Class A, FCC Class A, IP68, UL Listed, BSMI
Material	Graphene Plastic
Real-time Clock (RTC)	No
Warranty	2 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-0128		Pendant Mount (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)
PMAX-0134		Extension Tube, 200 mm (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)
PMAX-0349		Wall Mount with Built-in Junction Box (for Z71, Z72)
PMAX-0365		Wall Mount with Built-in Junction Box (for Y7x, Z5x, Z7x, Z91x)
PMAX-0409		Corner Mount (for A7x, Z714, Z724, Z8x, Z9x, Z972, Q550, K3x, K5x, K7x)

PMAX-0532



Pole Mount (for Z5x, Z724, Z8x, Z9x, Z972, A7X, Q550), supports 2.6" to 5" Poles

PMAX-0538



Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550, K3x, K5x, K7x) , supports 2.64" to 5" Poles

PMAX-0727



Junction Box (for Z71, Z72)

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