

# Z416

## 5MP Deep Learning AI LightGuard 12x Zoom Bullet with IR LED 100m, WDR 145dB



- 5 Megapixel, 12x Zoom Bullet
- Deep Learning AI, LightGuard
- Event trigger, response and notification

### ► Specifications

#### Product Profile

Product Type	Zoom Bullet
Application Environment	Outdoor
Maximum Resolution	5MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Day / Night	Yes
Low Light Sensitivity	Superior
LightGuard	Yes
Minimum Illumination	Color: 0.003 lux at F1.6 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED (850 nm)
IR Working Distance	100m
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

**Lens**

Focal Length	Zoom, f5.0-60mm
Aperture	F1.6
Zoom Ratio	12x optical zoom, 16x digital zoom
Iris	DC iris
Horizontal Viewing Angle	59.99° - 5.73°
Vertical Viewing Angle	35.03° - 3.39°
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 0°-90°, Rotation: 0°-360°

**Video**

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.264 Adaptive Stream (equivalent to Zip or Smart Stream or H.264+), MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 2880 x 1620 30 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
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, Rotation (Corridor mode)(±90°, 180°)
Image Enhancement	White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Defogging
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Face Detection, Age Detection, Gender Detection, Face Mask Detection, People Counting, Crowd Detection, Object Line Crossing Detection, Object Enter Area Detection, Object Exit Area Detection, Intrusion Detection (Forbidden Area Detection), Missing Object Detection, Unattended Object Detection, Tampering Detection

**Analytics**

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/v6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, SMTP, IGMP, ICMP, ARP, UPnP, SNMP, QoS, SSL/TLS, IEEE 802.1X
Ethernet Port	1 x Ethernet (10/100 Base-T), RJ-45 connector
Maximum User Connections	32
Security	HTTPS encryption, Password protected user level, IP address filtering

**Event**

Event Trigger	Video motion detection (4 regions) Sound detection, Tampering detection, External device through digital input
Event Response	E-mail notification with snapshots, Upload snapshot to FTP server, Save video or snapshot to storage

**Integration**

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


**Interface**

Serial Port	1 x RS-485
Audio Interface	1/1, 3.5mm Phone Jack
Analog Video Output	1 x BNC connector
Digital Input/Output	2/1
Operating Button	Reset Button

**General**

Power Source	DC 12V, High PoE (IEEE802.3at)
Power Consumption	13 W (PoE)
Weight	1930g (4.25lb)
Dimensions	(L x W x H): 354mm x 105mm x 98mm (13.9" x 4.1" x 3.9")
Environmental Casing	Weatherproof (IP67), Vandal proof (IK10)
Corrosion Protection	Ordering Number will be created upon orders.. Chassis corrosion resistance at the seashore approximately 2-3 years.
Bundled Accessories	Junction Box
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Operating Humidity	≤95% RH, non-condensing
Surge Protection	6KV
Approvals	CE, FCC, IP67, IK10 (metal casing)
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-0527	 Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550), supports 2.64" to 5" Poles
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PMAX-0538	
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**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-0013  Power Adapter AC 100~240V (EU), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x

PPBX-0014  Power Adapter AC 100~240V (UK), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x

PPBX-0023  Power Adapter 12V /2A(US) with DC PLUG for A416, A418

### 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)