Z416

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

- 5 Megapixel, 12x, Zoom Bullet
- Deep Learning AI, LightGuard
- IR LED 100m, Extreme WDR (145 dB)
- Color Min. Illumination 0.001 lux
- Counting
- DORI (119.3-1417.5 / 47.7-567.0 / 23.9-283.5 / 11.9-141.8m)
- Weatherproof (IP68), Vandal proof (IK10), UL Listed

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	Extreme
LightGuard	Yes
Minimum Illumination	Color: 0.001 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-F3.0
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, H.264 Adaptive Stream, 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)(±90º, 180º)
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 Flow Counting, People Density 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

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

Detection Range

Observation Range	Detection: 119.3m-1417.5m Observation: 47.7m-567.0m Recognition: 23.9m-283.5m Identification: 11.9m-141.8m

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

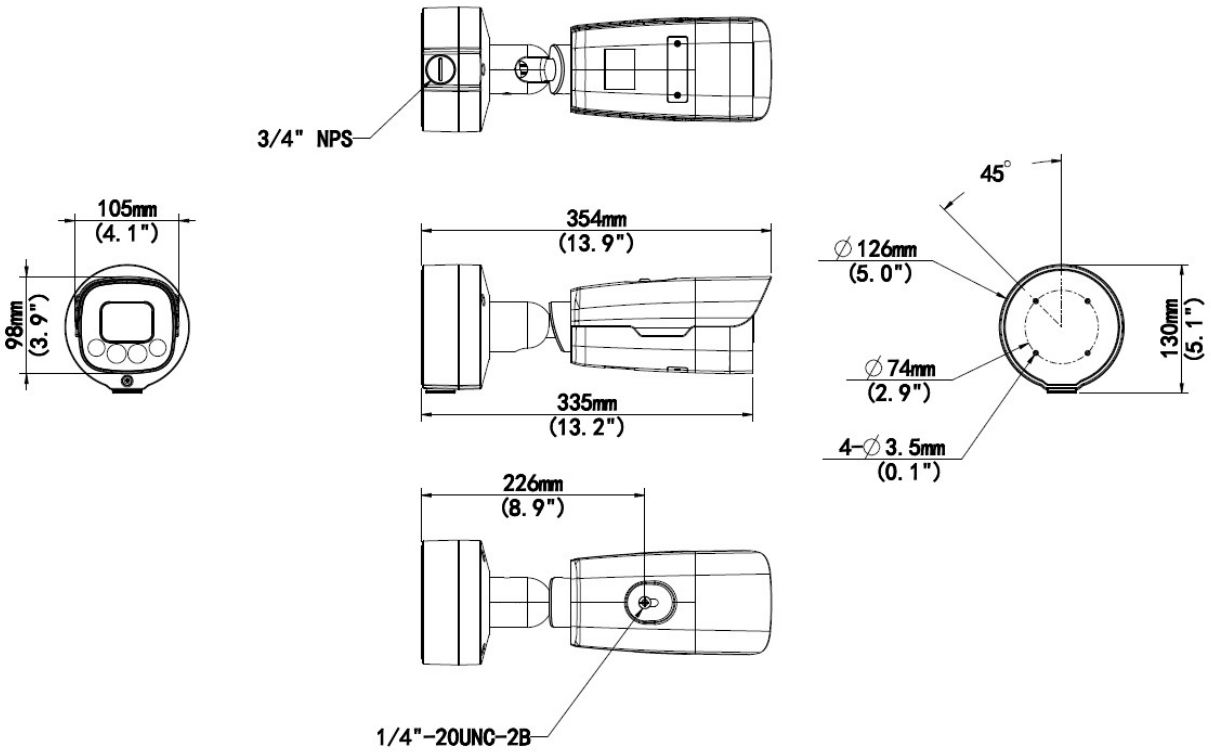
Interface

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 (IP68), Vandal proof (IK10)
Corrosion Protection	Ordering Number will be created upon orders.. Chassis corrosion resistance at the seashore approximately 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 Class B, FCC Class B, IP68, IK10 (metal casing), UL Listed
Warranty	2 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

Dimension Diagram



Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

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.

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)

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)

Illuminators - IR LED Illuminator

PLED-0210		