A427

4MP Deep Learning AI LightGuard 4.3x Zoom Bullet with IR LED 85m, WDR 150dB



- 4 Megapixel, 4.3x, Zoom Bullet
- Deep Learning AI, LightGuard
- 1/1.8" Sensor, IR LED 85m, Extreme WDR (150 dB)
- Color Min. Illumination 0.0005 lux
- Frame Rate 60fps
- Smart Motion Detection, Smart Intrusion Protection, Object Metadata
- Face Recognition, Counting
- Rule Violation Detection
- Weatherproof (IP68), Vandal proof (IK10)

Specifications

Product Profile

Product Type	Zoom Bullet
Application Environment	Outdoor
Maximum Resolution	4MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/1.8 "
Day / Night	Yes
Low Light Sensitivity	Extreme
LightGuard	Yes
Minimum Illumination	Color: 0.0005 lux at F1.2 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED
IR Working Distance	85m
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

Lens

Focal Length	Zoom, f2.8-12mm

Aperture	F1.2-F2.5
Zoom Ratio	4.3x optical zoom
Zoom Application	Camera Installation
Iris	P-Iris
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	114.5° - 41.8°
Vertical Viewing Angle	59.3° - 23.6°
Viewing Angle Adjustment	Pan: 360°, Tilt: 90°, Rotation: 360°

Video

Compression	H.265 Adaptive Stream, H.265, H.264 Adaptive Stream, H.264, MPEG
Maximum Frame Rate vs. Resolution	30 fps at 2688 x 1520 60 fps at 2560 x 1440 60 fps at 1920 x 1080 60 fps at 1280 x 720 30 fps at 704 x 480 30 fps at 640 x 480
Multi-Streaming	Simultaneous 5 streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Extreme WDR (150 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Saturation, Automatic gain control (AGC), Backlight compensation (BLC), Highlight compensation (HLC), Digital Image Stabilizer (DIS, EIS), Defogging
Privacy Mask	8 configurable regions
Text Overlay	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, Smart Intrusion Protection, Object Metadata, Tampering Detection, Missing Object Detection, Unattended Object Detection, People Line Crossing Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection, Stopped vehicle detection, Face Detection, Face Snapshot, Face Matching, Face Recognition, Hard Hat Detection, Heat Map, Crowd Detection, Queue management, People Flow Counting, People Density Counting, Vehicle Flow Counting, Duty Status Detection (, Absence Detection)
Plug-in Analytics	Mask Wearing or Absence Detection, Helmet Wearing or Absence Detection, Construction Site Safety Violation Detection, Fire & Hazardous Materials Control Room Rules Violation Detection, Gas Station & Control Room Rules Violation Detection (Only one function can be enabled at a time; special firmware support is required, please contact the sales.)

Analytics

Deep Learning AI	2.0

Audio

Audio Compression	G.711, G.726, AAC, PCM

Network

Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, Bonjour, UPnP, QoS, SSL/TLS, SNMP

Ethernet Port	1 x Ethernet (10/100/1000 Base-T), RJ-45 connector
Maximum User Connections	32
Security	IP address filtering, HTTPS encryption, Password protected user level

Detection Range

Observation Range	Identification: 60m-149m Observation: 23.8m-59.1m Recognition: 12m-29.8m Identification: 6m-14.9m

Event

Event Trigger	Video motion detection, External device through digital input, Shock Detection, Intelligent event detection,

Integration

Edge Recording	Support (integration with NVR by ONVIF Profile G)*
ONVIF Compliant	Yes, Profile G, Profile T
Web Browser	IE 11, Microsoft Edge, Google Chrome, Firefox, Apple Safari

Interface

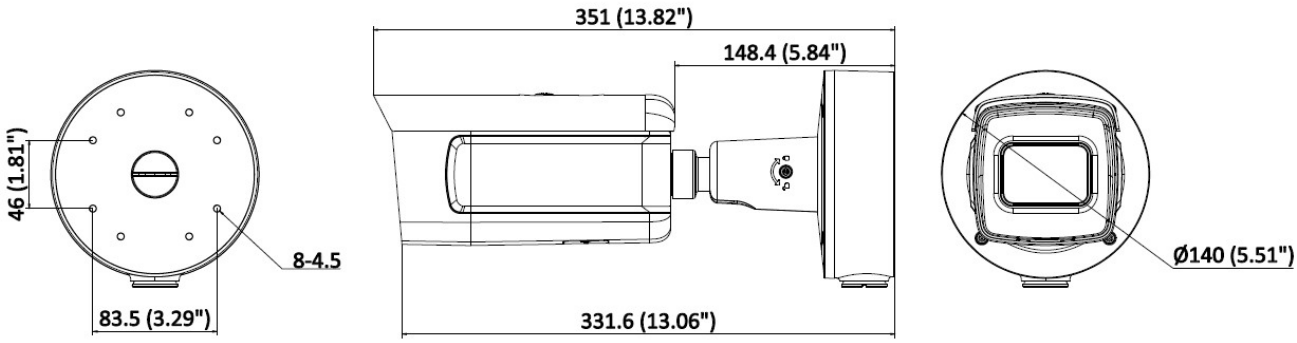
Digital Input/Output	2/2
Operating Button	Reset Button

General

Power Source	DC 12V, High PoE (IEEE802.3at)
Power Consumption	16.8 W (PoE)
Dimensions	(Ø x L): 144mm x 347mm (5.67" x 13.66")
Environmental Casing	Weatherproof (IP68), Vandal proof metal casing (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Mount Type	Pole Mount, Corner Mount
Heater	Yes
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)
Approvals	CE Class A, FCC Class A, IP68, IK10 (metal casing)
Color	White
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

Dimension Diagram



Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

PMAX-0411		Corner Mount (for A427, A428, A429)
PMAX-0524		Pole Mount (for A46, A421, A422, A423, A425, VMGB-359), supports 2.64" to 5" Poles
R707-00004		Junction Box for Bullet Cameras (for VMGB-410, A427)

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-0015		Power Adapter AC 100~240V (12V/2A Output), with universal connectors for R21CF-xx

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		