

# A428

## 4MP Deep Learning AI LightGuard 4.3x Zoom Bullet with IR LED 60m, WDR 150dB



- 4 Megapixel, 4.3x Zoom Bullet
- Deep Learning AI, LightGuard
- Frame Rate 120fps
- Super wide angle

### ► 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	60m
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	F1.38-F2.53
Zoom Ratio	4.3x optical zoom
Iris	P-Iris
Horizontal Viewing Angle	106° - 41.8°
Vertical Viewing Angle	55.4° - 23.6°

**Video**

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.264 (Baseline/ Main/ High profile), MJPEG
Maximum Frame Rate vs. Resolution	60 fps at 2688 x 1520 60 fps at 2560 x 1440 120 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 based on configurations of video resolution, compression format, and frame rate
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
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, Smart Intrusion Protection, Object Metadata, Tampering 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, Face Detection, Face Snapshot, Face Matching, Face Recognition, Hard Hat Detection, Heat Map, Crowd Detection, Queue management, People Counting, Vehicle Counting, Duty Status 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
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**Audio**

Audio Type	2-way, Line-in, Line-out
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**Network**

Ethernet Port	1 x Ethernet (10/100/1000 Base-T), RJ-45 connector
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**Interface**

Analog Video Output	1 x CVBS, Composite output
Digital Input/Output	2/2

Operating Button	Reset Button
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## General

Power Source	DC 12V, AC 24V, PoE Class 4 (IEEE802.3at)
Power Consumption	22.6 W (PoE)
Weight	2170g (4.78lb)
Dimensions	(Ø x L): 140mm x 378.4mm (5.5" x 14.9")
Environmental Casing	Weatherproof (IP67), Vandal proof metal casing (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.
Heater	Yes
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Operating Humidity	≤95% RH, non-condensing
Material	Aluminum alloy
Real-time Clock (RTC)	Yes
Warranty	3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>