B412



3MP Zoom Bullet with D/N, Adaptive IR, Extreme WDR, SLLS, 10x

- 3 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 10x Zoom Lens, f4.7-47mm/F1.6-F3.0, DC iris, Auto focus
- Extreme WDR (145dB)
- Taiwan IoT Cybersecurity Certification Level 2 (TCA)
- Event trigger, response and notification

Specifications

Device

Device	
Product Type	Zoom Bullet
Maximum Resolution	3MP
Application Environment	Outdoor
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.8 "
Effective Pixels	2065(H) X 1553(V) (3.21 MP)
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.003 lux at F1.6; B/W: 0 lux (IR LED on)
Color to B/W Switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	Adaptive IR LED x 10 (850 nm)
IR Working Distance	60m
Electronic Shutter	1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode)

Zoom Bullet		
Horizontal Resolution (TV Lines)	1450 TVL	
S/N Ratio	75 dB	
Lens		
Focal Length	Zoom, f4.7-47mm	
Aperture	F1.6-F3.0	
Zoom Ratio	10x optical zoom	
Zoom Application	Camera Installation, Auto Zoom by Event, Manual Operation	
Iris	DC iris	
Focus	Auto focus	
Lens Mount	Board mount	
Horizontal Viewing Angle	58° - 5.8°	
Vertical Viewing Angle	45.3° - 5°	
PTZ		
Absolute Position	Yes	
Pan, Tilt or Zoom protocol	Visca, Pelco-D, Pelco-P, ACTi URL command	
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	30 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 640 x 480 30 fps at 320 x 240	
Multi-Streaming	Simultaneous triple streams based on configurations of video resolution, compression format, and frame rate	
Bit Rate	128Kbps - 12Mbps	
Bit Rate Mode	Constant, Variable	
Wide Dynamic Range	Extreme WDR (145 dB)	
Image Enhancement	White Balance, Brightness, Contrast, Saturation, Sharpness, Automatic gain control, Flickerless, Defogging	
	OD - OD DND	
Digital Noise Reduction	2D + 3D DNR	
Digital Noise Reduction Privacy Mask	32 configurable 3D privacy masks	

Audio

Built-in Analytics

Image Orientation

Server-based Analytics

Audio Type	2-way, Built-in Microphone, Mic-in, Line-in, Line-out

Object Line Counting, People Counting, Face Detection, Object Based Motion Detection, Tamper, Object Line Crossing Detection, Object Enter Area Detection, Missing Object Detection, Unattended Object Detection, Smoke Detection, Heat Map, Dwell Time, Direction Detection, Automatic License Plate Recognition, People Queue Detection,

(Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to

Object Based Motion Detection, Tampering Detection, Shock Detection

maximize analytical accuracy)

Flip, Mirror, Rotation (Corridor mode)

Zoom Bullet

Audio Compression	8 kHz, 16 bit encoding, Mono, PCM, G.711		
Network			
Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, IGMP, ICMP, ARP, Bonjour, UPnP, QoS, SNMP, IEEE 802.1X		
Ethernet Port	1 x RJ-45 pigtail connector		
Security	IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control, Standard IoT Security (anti-hacking, anti-malware)		
Event			
Event Trigger	Video motion detection (10 included and excluded polygonal regions), External device through digital input, Tampering detection, Shock Detection, Sound detection, Video streams loss, System log buffer overrun, Remove system log, Logon events (Login Failure, Login Success, Block an Account)		
Event Response	Notify control center, Go to Zoom preset point or preset tour, Change camera settings, Command other devices, E-mail notification with snapshots, Push notification to mobile device, Save video to storage, Upload video or snapshot to FTP server, Upload video or snapshot to FTP server, Activate external device through digital output		
System			
System Monitor	CPU loading, memory usage and network statistics via API		
System Log	Support		
Watchdog	Support		
Integration			
Unified Solution	Fully compatible with ACTi software		
GPS Position	Manual setting		
Edge Recording	Support (integration with NVR by ONVIF Profile G or proprietary protocol)**		
ONVIF Compliant	Yes, Profile S, Profile G, Profile M		
GB28181 Compliant	Yes		
Web Browser	IE 11, Google Chrome*, Microsoft Edge*, Apple Safari*		
Auto Firmware Upgrade	Yes		
Interface			
Audio Interface	Built-in microphone, 1/1, Cable with 3.5mm Phone Jack		
Digital Input/Output	1/1 (Cable with Terminal block)		
Operating Button	Reset Button		
General			
Power Source	DC 12V, High PoE (IEEE802.3at)		
Power Consumption	18.8 W (PoE, heater and IR on), 15.6 W (DC, heater and IR on)		
Weight	2098g (4.625lb)		
Dimensions	(W x H x D): 105.11mm x 124.06mm x 368.5mm (4.14" x 4.88" x 14.51")		

Weatherproof (IP66), Vandal proof metal casing (IK10), Built-in dehumidifier

Environmental Casing

Zoom Bullet

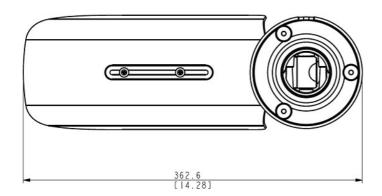
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 10 years.
Bundled Accessories	Integrated bracket
Mount Type	Wall Mount, Ceiling Bracket, Pole Mount, Gang Box
Heater	Yes
Dehumidifier	Yes
Starting Temperature	-40°C ~ 60°C (-40°F ~ 140°F) within 30 minutes
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Humidity	10% - 85% RH, non-condensing
Approvals	CE Class B, FCC Class B, EAC, IP66, NEMA 4X, IK10 (metal casing), Taiwan IoT Cybersecurity Certification (TAICS: Level 1, TCA: Level 2)
Real-time Clock (RTC)	Yes
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

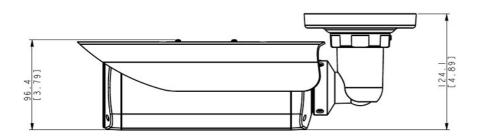
^{*} cross-browser compatibility: Not available for H.265 video decoding and Intelligent Video settings ** Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

Photo Indication



Dimension Diagram







Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0330), supports 3.25" PMAX-0504 to 7.0" Poles Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0312, PMAX-0313, PMAX-0505 PMAX-0314, PMAX-0330), supports 2" to 3" Poles PMAX-0508 Pole Mount (for PMAX-0203, PMAX-0204, PMAX-0205, PMAX-0206, PMAX-0704), supports 3" to 9" Poles PMAX-0512 Pole Mount (for E39, PMAX-0706), supports 3.25" to 7.0" Poles Junction Box (for A4x, B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0203~PMAX-PMAX-0704 0205) PMAX-0706 Junction Box (for A3x, A4x, E39, E41x, PMAX-0805) Gang Box Converter (for B4x, E39, E44, E45, E46, E44A, E45A, E46A), supports 4" Round and 4" Octagon PMAX-0806 R706-00006 Back Bracket with Pre-installed (For B41x,B43,I42,I48,E413, E415, E417)

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.

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-0105



PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W)

Audio Devices - Microphone

PMIC-0100



Active Microphone Omnidirectional for all Cameras with Line-in Audio

PMIC-0200



Passive Microphone Omnidirectional for all Cameras with Mic-in Audio using 3.5mm Phone Jack

Other Accessories - Camera Part

R716-00001



Sunshield (for B4x, I4x)

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