B412

3MP 10x Zoom Bullet with IR LED 60m, WDR 145dB



- 3 Megapixel, 10x, Zoom Bullet
- IR LED 60m, Extreme WDR (145 dB)
- Color Min. Illumination 0.003 lux
- DORI (94-940 / 37.9-379 / 18.8-188 / 9.4-94m)
- Weatherproof (IP66), Vandal proof (IK10), NEMA 4X
- Taiwan IoT Cybersecurity Certification

Specifications

Product Profile

Product Type	Zoom Bullet
Application Environment	Outdoor
Maximum Resolution	3MP
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)
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	Adaptive IR LED x 10 (850 nm)
IR Working Distance	60m
Color to B/W Switch	ISP based switch, configurable
Electronic Shutter	1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode)

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, 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
Bit Rate	128Kbps - 12Mbps
Bit Rate Mode	Constant, Variable
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)
Image Enhancement	White Balance, Brightness, Contrast, Saturation, Sharpness, Automatic gain control (AGC), Flickerless, Defogging
Privacy Mask	32 configurable 3D privacy masks
Text Overlay	Yes
Built-in Analytics	Object Based Motion Detection, Tampering Detection, Shock Detection
Server-based Analytics	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 maximize analytical accuracy)

Audio

Audio Type	2-way, Built-in Microphone, Mic-in, Line-in, Line-out
Audio Compression	8 kHz, 16 bit encoding, Mono, PCM, G.711

Network

Network Protocol & Service	IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SRTP, LLDP, 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, SRTP encrypted video streaming, Password protected user level, Anonymous login, IEEE 802.1X network access control, Standard IoT Security (anti-hacking, anti-malware)

Detection Range

Observation Range	Detection: 94m-940m Observation: 37.9m-379m Recognition: 18.8m-188m Identification: 9.4m-94m

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	Profile S, Profile G, Profile T, Profile M
GB28181 Compliant	Yes
Web Browser	IE 11, Google Chrome, Microsoft Edge, Apple Safari, Firefox
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")

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

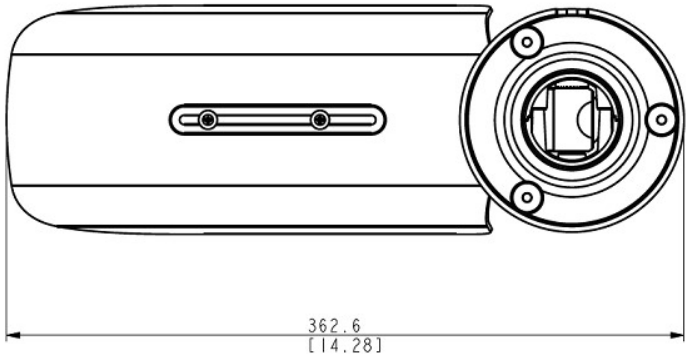
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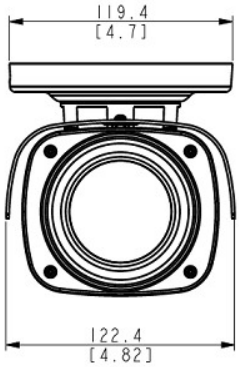


1. Ethernet Port
2. Audio Input / Output
3. DC 12V Power Input
4. Reset Button
5. Digital Input/Output
6. Memory Card Slot (inside the front cover)
7. Dehumidifier
8. Built-in Microphone

Dimension Diagram







Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

PMAX-0504		Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0330), supports 3.25" to 7.0" Poles
PMAX-0505		Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0312, PMAX-0313, 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
PMAX-0704		Junction Box (for A4x, B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0203~PMAX-0205)
PMAX-0706		Junction Box (for A3x, A4x, E39, E41x, PMAX-0805)
PMAX-0806		Gang Box Converter (for B4x, E39, E44, E45, E46, E44A, E45A, E46A), supports 4" Round and 4" Octagon Boxes
R706-00006		Integrated Bracket (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.

Bullet Covers - Front Cover

R700-00013		

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-0105		PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed 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)

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

Illuminators - IR LED Illuminator

PLED-0210		

Other Accessories - Camera Part

R716-00001		Sunshield (for B4x, I4x)

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