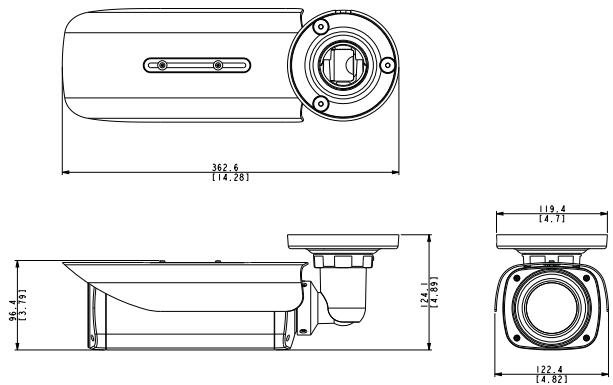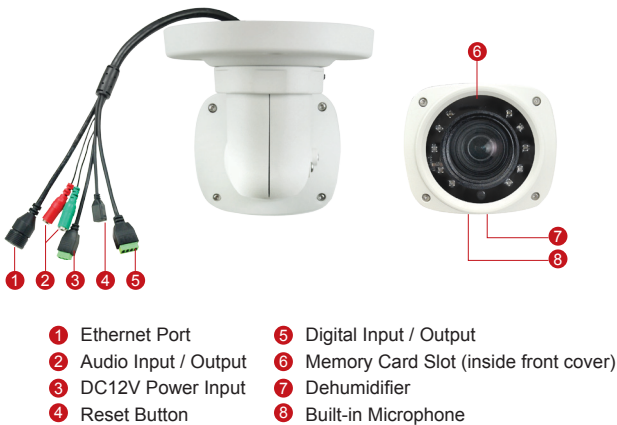## Bullet Camera

B412

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

- 3 Megapixel
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- 10x Zoom Lens with f4.7 - 47mm / F1.6 - 3.0, DC iris, Auto Focus
- Extreme WDR (145 dB)
- 30 fps at 2048 x 1536
- Weatherproof (IP67) and Vandal Proof Metal Casing (IK10)
- Built-in Analytics

PHOTO INDICATION

#		#	
1	Ethernet Port	5	Digital Input / Output
2	Audio Input / Output	6	Memory Card Slot (inside front cover)
3	DC12V Power Input	7	Dehumidifier
4	Reset Button	8	Built-in Microphone

DIMENSION DIAGRAM

362.6
[14.28]

119.4
[4.7]

96.4
[3.79]

24.1
[4.89]

122.4
[4.82]

Unit: mm [inch]

ACCESSORY OPTIONS

Power Supply		
PPOE-0001		IEEE 802.3af PoE Injector for Class 1, 2 or 3 devices, with universal adapter
PPBX-0002		AC 100-240V to DC 12V power adapter with universal connector

Popular Mounting Solutions	
Wall	Integrated bracket
Ceiling	Integrated bracket
Pole	PMAX-0504
Gang Box	PMAX-0806

* For more mounting solutions, please refer to Project Planner on www.acti.com

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* Latest product information: www.acti.com/product/
* Accessory information: www.acti.com/mountingselector/

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B412

PRODUCT SPECIFICATION

B412	
• Device	
Device Type	Zoom Bullet Camera
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.8"
Effective Pixels	2065 (H) x 1553 (V) (3.2 MP)
Horizontal Resolution	1450 TVL
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.1 lux at F1.6 (30 IRE, 2400°K); 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	60 m (0 lux, 30 IRE, Gain 255, Auto shutter mode)
Electronic Shutter	1/5 ~ 1/2,000 sec (manual mode); 1/5 ~ 1/120 sec (auto mode)
S/N Ratio	56 dB
• Lens	
Focal Length / Aperture	Zoom, f4.7 - 47 mm / F1.6 - 3.0
Zoom Ratio / Speed	10x optical; 800 ~ 1600 pps
Zoom Application	Camera installation; Auto zoom by event; Manual operation
Iris	DC iris
Focus	Auto focus
Mount Type	Board mount
Horizontal Viewing Angle	60.9° ~ 6.43°
• Video	
Compression	H.265, H.264 (Baseline/ Main/ High profile), MJPEG
Max. Frame Rate vs. Resolution	30 fps at 2048 x 1536, 60 fps at 1920 x 1080, 30 fps at 1280 x 960, 60 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 three configurations
Bit Rate	128 Kbps - 12 Mbps (per stream)
Bit Rate Mode	Constant, Variable
Image Enhancement	Extreme WDR (145 dB), White Balance: Automatic, Hold, and Manual, Brightness, Saturation, Contrast, Defogging, Sharpness (Auto), Auto Gain control, 2D + 3D Digital Noise Reduction, Flickerless, Digital Image Stabilizer
Privacy Mask	4 Configurable Regions
Text Overlay	User Defined Text on Video
Image Orientation	Image Flip and Mirror
Built-in Analytics	Object Based Motion Detection, Tampering, Shock Detection, Line Crossing*, Enter Area*, Missing Object*, Unattended Object*, Loitering*, Smoke Detection*, Fire Detection* (Some of the algorithms may not be available in the first release, can be upgraded for free later)
• Audio	
Compression	8kHz, Mono, PCM, 16 bit encoding, G.711
Audio-In	3.5 mm Phone Jack, Built-in Microphone
Audio-Out	3.5 mm Phone Jack
• Network	
Protocol & Service	TCP, UDP, HTTP, HTTPs, DHCP, PPPoE, RTP, RTSP, IPv4, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Ethernet Port	1, Ethernet (10/100 Base-T), RJ-45 connector
Security	IP Address Filtering, HTTPs Encryption, Password Protected User Levels, Anonymous Login, IEEE802.1x Network Access Control
• Alarm	
Alarm Trigger	Video Motion Detection (10 regions), External Device Through Digital Input, Sound detection
Alarm Response	Notify Control Center, Change Camera Settings, Command Other Devices, E-mail Notification with Snapshots, Save Video or Snapshot to Local Storage, Upload Video or Snapshot to FTP Server, Activate External Device Through Digital Output
• Interface	
Digital Input	1, Terminal block
Digital Output	1, Terminal block
Local Storage	MicroSDHC, MicroSDXC memory card slot (card not included)
• General	
Power Source	PoE Class 4 (IEEE802.3at) / 18.8 W, DC 12V (adapter not included) / 15.6 W
Dimensions (W x H x D)	105.11 mm x 124.06 mm x 368.5 mm (4.14" x 4.88" x 14.51")
Environmental Casing	Weatherproof (IP67 rated); Vandal Proof Metal Casing (IK10)
Mount Type	Wall, Pole, Ceiling, Gang box
Starting Temperature	-30°C ~ 60°C (-22°F ~ 140°F) within 30 mins
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Operating Humidity	10% ~ 85% RH
Approvals	CE (EN 55022 Class B, EN 55024), FCC (Part15 Subpart B Class B), IP67, NEMA 4X, IK10 (metal casing), UL (for optional PoE injector and power adapter)
• Integration	
Unified Solution	Fully compatible with ACTi software
ISV Integration	Software Development Kit (SDK) available, ONVIF compliant
Firmware Access Browser	Microsoft Internet Explorer 11
Auto Firmware Upgrade	Yes
GPS Position	Manual Setting

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