E222

2MP Box with D/N, Extreme WDR, SLLS, Vari-focal Lens

- 2 Megapixel
- Day & Night with Superior Low Light Sensitivity
- Vari-focal Lens with f2.8-12mm/F1.4, DC iris
- Extreme WDR
- Wide Angle
- Built-in Analytics
- Event trigger, response and notification

▶ Specifications

Device

Product Type	Box
Maximum Resolution	2MP
Application Environment	Indoor/Outdoor
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.8 "
Effective Pixels	1944(H) X 1224(V) (2.38 MP)
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.1 lux at F1.4 (30 IRE , 2400 K); B/W: 0.05 lux at F1.4 (30 IRE, 2400 K)
Color to B/W Switch	ISP based switch, configurable
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	No
Electronic Shutter	1/5-1/2000 second (manual mode); 1/5-1/10000 second (auto mode)
Horizontal Resolution (TV Lines)	1100 TVL
S/N Ratio	56 dB

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Lens

Focal Length	Vari-focal, f2.8-12mm
Aperture	F1.4
Iris	DC iris
Focus	Manual focus
Lens Mount	CS Mount (interchangeable lens)
Horizontal Viewing Angle	87.5° - 32.1°
Vertical Viewing Angle	49.3° - 18.9°

PTZ

Pan, Tilt or Zoom protocol	Visca, Pelco-D, Pelco-P

Video

Compression	H.264 (Baseline/ Main/ High profile), MJPEG
Maximum Frame Rate vs. Resolution	60 fps at 1920 x 1080 60 fps at 1280 x 720 30 fps at 640 x 480 30 fps at 320 x 240
Multi-Streaming	Simultaneous triple streams based on three configurations
Bit Rate	128Kbps - 12Mbps (per stream)
Bit Rate Mode	Constant, Variable
Wide Dynamic Range	Extreme WDR (145 dB)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Flickerless, Digital Image Stabilizer (DIS, EIS), Defogging
Digital Noise Reduction	2D + 3D DNR
Privacy Mask	4 configurable regions
Text Overlay	Yes
Built-in Analytics	Basic Face Detection, Object Based Motion Detection, Tampering Detection, Object Line Crossing Detection, Object Enter Area Detection, Missing Object Detection, Unattended Object Detection, Object Loitering 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, People Queue Detection, (Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to maximize analytical accuracy)
Image Orientation	Rotation
IVS performance	Certain algorithms may require more computing power, which may limit the number of algorithms that can be concurrently used in the camera. Please test the actual performance before using in a project.

Audio

Audio Type	2-way, Line-in, Line-out
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 connector

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Security	IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control

Video Analytics

Analysis Source Type	Video
Metadata Accuracy	Standard

Event

Event Trigger	Video motion detection (10 included and excluded polygons regions), External device through digital input, Sound detection, Intelligent event detection,
Event Response	Notify control center, Change camera settings, Command other devices, E-mail notification with snapshots, Play the audio file, Push notification to mobile device, Save video to local storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output

Integration

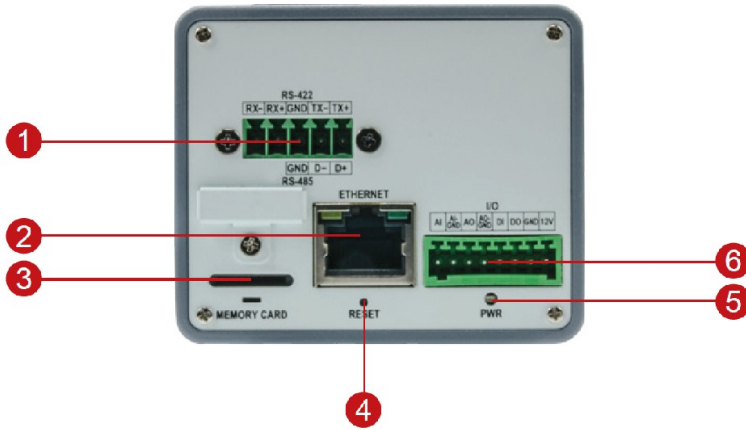| Unified Solution	Fully compatible with ACTi software
Software Development Kit	Yes
GPS Position	Manual setting
ONVIF Compliant	Yes, Profile S, Profile G, Profile T* (To be available through future firmware upgrade), Profile Q
GB28181 Compliant	Yes
Web Browser	IE 11
Auto Firmware Upgrade	Yes

Interface

Serial Port	1 x RS-485/RS-422
Audio Interface	Terminal block
Local Storage	MicroSDHC, MicroSDXC memory card slot (card not included)
Digital Input/Output	1/1

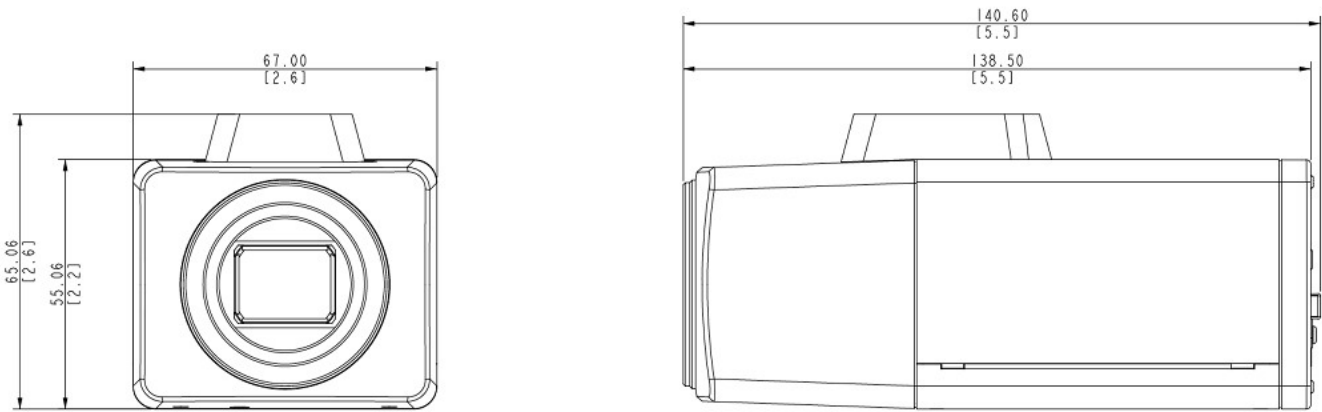## General

Power Source	PoE Class 3 (IEEE802.3af)
Power Consumption	7 W (PoE)
Weight	450g (0.992lb)
Dimensions	(W x H x D): 67mm x 65mm x 145mm (2.6" x 2.5" x 5.6")
Environmental Casing	Optional housing (IP66)
Mount Type	Bracket, Pole Mount, Corner Mount
Starting Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	10% - 85% RH
Approvals	CE, FCC, UL (for optional PoE injector)
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

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▶ Photo Indication

1 Serial Port

2 Ethernet Port

3 Memory Card Slot

4 Reset Button

5 Power LED

6 Audio Input / Output & Digital Input / Output

▶ Dimension Diagram

Unit: mm [inch]

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▶ Related Products

Mounting Accessories - Camera Mount

PMAX-0402		Corner Mount
PMAX-0503		Pole Mount (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" Poles
PMAX-0508		Pole Mount (for PMAX-0203, PMAX-0204, PMAX-0205, PMAX-0206, PMAX-0704), supports 3" to 9" Poles
PMAX-0704		Junction Box (for A4x, B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMAX-0203~PMAX-0205)
PMAX-1100		Bracket for Indoor Box Cameras
PMAX-1101		Bracket for Outdoor Box Cameras (KCM-5211E, KCM-5511, KCM-5611, Box Cameras with Outdoor Housing)
PMAX-1106		Bracket for Outdoor Box Cameras (KCM-5211E, KCM-5511, KCM-5611, Box Cameras with Outdoor Housing)

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

Enclosures - Box Camera Housing

PMAX-0200		Outdoor Housing with Heater and Fan (110V)
PMAX-0201		Outdoor Housing with Heater and Fan (220V)
PMAX-0202		Outdoor Housing
PMAX-0203		Heavy Duty Outdoor Housing with Heater and Fan (230V) and Bracket
PMAX-0204		Heavy Duty Outdoor Housing with Heater and Fan (110V) and Bracket
PMAX-0205		Heavy Duty Outdoor Housing with Bracket
PMAX-0206		PoE Heavy Duty Outdoor Housing with Heater, Fan, Defogger and Bracket
PMAX-0208		Explosion Proof Housing with Heater, Fan (AC 110V~220V) and Bracket
PMAX-0210		Stainless Steel Housing with Heater, Fan (AC 110V~220V) and Bracket

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Power Supply Accessories - Power Adapter

PPBX-0011		Power Adapter AC 100~240V, with universal connectors for all DC12V powered devices

Power Supply Accessories - PoE Injector

PPOE-0001		PoE Injector IEEE 802.3af compliant, AC 100~240V, with universal connectors

Network & Storage Peripherals - Data Switch

PPSW-0100		PLANET FGSD-910HP 8-Port 802.3at PoE Switch (PoE Budget 120W)
PPSW-0101		PLANET GS-4210-8P2T2S 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 240W)
PPSW-0102		PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W)
PPSW-1101		PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W)
PPSW-2101		4-Port 802.3at PoE Switch (PoE Budget 62W)
PPSW-3100		PLANET FGSW-1816HPS 16-Port 802.3at PoE Switch (PoE Budget 220W)

Extenders - PoE Extender

PPEX-0100		Veracity OUTREACH Max Power over Ethernet (PoE) Extender

Extenders - PoE over Coaxial Extender Kit

PPOC-0100		Planet LRP-101C-KIT Power over Coax Adapter Kit

Audio Devices - Microphone

PMIC-0100		Active Microphone Omnidirectional for all Cameras with Line-in Audio

Illuminators - IR LED Illuminator

PLED-0200		SPINLUX (SL-A2IRXX10-24CL) IR Illuminator 10° Angle with 120 m approx. range
PLED-0201		SPINLUX (SL-A2IRXX25-24CL) IR Illuminator 25° Angle with 50 m approx. range
PLED-0202		SPINLUX (SL-A2IRXX35-24CL) IR Illuminator 35° Angle with 25 m approx. range
PLED-0204		SPINLUX (SL-A2IRXX25-48CL) IR Illuminator 25° Angle with 80 m approx. range

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PLED-0205		SPINLUX (SL-A2IRXX35-48CL) IR Illuminator 35° Angle with 40 m approx. range

Other Accessories - Accessory Part

R707-10000		Mounting Block (for D2x, E2x, B2x, I2x)

Product Demo - Camera Demo Kit

PCDK-0001		Camera Demo Kit Rack Box (350 x 550 x 140 mm) for all cameras except Mini Domes

Installation Support - Camera Installation Kit

PMON-1001-010		Camera Installation Kit for use with iOS Device with belt bag, battery and charger (US, AC 110~240V)
PMON-1001-011		Camera Installation Kit for use with iOS Device with belt bag, battery and charger (Europe, AC 110~240V)
PMON-2000		Camera Installation Kit

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