

I96

2MP Outdoor Speed Dome with D/N, Extreme WDR, ELLS, 30x Zoom Lens



- 2 Megapixel
- Day & Night with Extreme Low Light Sensitivity
- 30x Zoom Lens with f4.3-129mm/F1.6-F5.0, DC iris, Auto focus
- Extreme WDR
- Overview, Zoom and Tracking (OZT)
- Event trigger, response and notification

► Specifications

Device

Product Type	Speed Dome
Maximum Resolution	2MP
Application Environment	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	Extreme
Minimum Illumination	Color: 0.002 lux at F1.6; B/W: 0.001 lux at F1.6
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)	1800 TVL

S/N Ratio	75 dB
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Lens

Focal Length	Zoom, f4.3-129mm
Aperture	F1.6-F5.0
Zoom Ratio	30x optical zoom, 16x digital zoom
Zoom Speed	2.87 second (wide to tele)
Zoom Application	Camera Installation, Auto Zoom by Event, Manual Operation
Iris	DC iris
Focus	Auto focus
Lens Mount	Board mount
Horizontal Viewing Angle	66.4° - 2.61°
Overview, Zoom and Tracking (OZT) technology	Yes (Pair of intelligent speed dome camera with B511A, B59A, B74A and B76A hemispheric camera)

PTZ

Scan Panning / Tilting Speed	0.16° - 32°/second, 0.16° - 32°/second
Manual Panning / Tilting Speed	1.6° - 40.32°/second, 0.16° - 20.16°/second
Preset Panning / Tilting Speed	0.16° - 480°/second, 0.16° - 480°/second
Panning Range	360° endless
Tilting Range	-20°~200°
PTZ Control	Remote manual control, 10 preset tours, Auto scan
Preset Accuracy (Panning/Tilting)	0.265°/0.265°
Absolute Position	Yes
Pan, Tilt or Zoom protocol	Visca, Pelco-D, Pelco-P, ACTi URL command

Video

Compression	H.264 (Baseline/ Main/ High profile), MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 640 x 480 15 fps at 320 x 240
Multi-Streaming	Simultaneous dual streams based on two configurations
Bit Rate	28Kbps - 6Mbps (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	32 configurable 3D privacy masks
Text Overlay	Yes

On-Screen Graphics (Picture Overlay)	Yes
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)
Image Orientation	Flip, Mirror

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 Ethernet (10/100 Base-T), 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 (3 regions), External device through digital input, Sound detection,
Event Response	Notify control center, Go to PTZ preset point or preset tour, 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 or snapshot to FTP server, Upload video to NVR server, Activate external device through digital output

System

System Monitor	CPU loading, memory usage and network statistics via API
Watchdog	Support

Integration

Unified Solution	Fully compatible with ACTi software
Software Development Kit	Yes
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 T* (To be available through future firmware upgrade), Profile Q
GB28181 Compliant	Yes
Auto Firmware Upgrade	Yes

Interface

Audio Interface	Cable without connector
Local Storage	MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only)

Digital Input/Output	4/2
Operating Button	Reset Button

General

Power Source	AC 24V, High PoE (IEEE802.3at)
Power Consumption	25.44 W (PoE)
Weight	2750g (6.063lb)
Dimensions	(Ø x H): 200mm x 276mm (7.9" x 10.9")
Environmental Casing	Weatherproof (IP67), Vandal proof (IK10), Built-in dehumidifier
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 10 years.
Bundled Accessories	High PoE injector (for USA) or Power Adapter (for other countries)
Mount Type	Gang Box, Pendant, Converter for NPT Standard Mounts, Wall Mount, Pole Mount, Corner Mount
Fan	Yes
Heater	Yes
Dehumidifier	Yes
Starting Temperature	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Operating Humidity	10% - 85% RH
Approvals	CE Class B, FCC Class B, EAC, IP67, NEMA 4X, IK10, UL (for bundled PoE injector or power adapter), ETL Listed
Material	Housing Material: Metal
Real-time Clock (RTC)	Yes
Warranty	3 Year(s) (1 year in continuous motion). For extended warranty offering, see http://www.acti.com/support/warranty

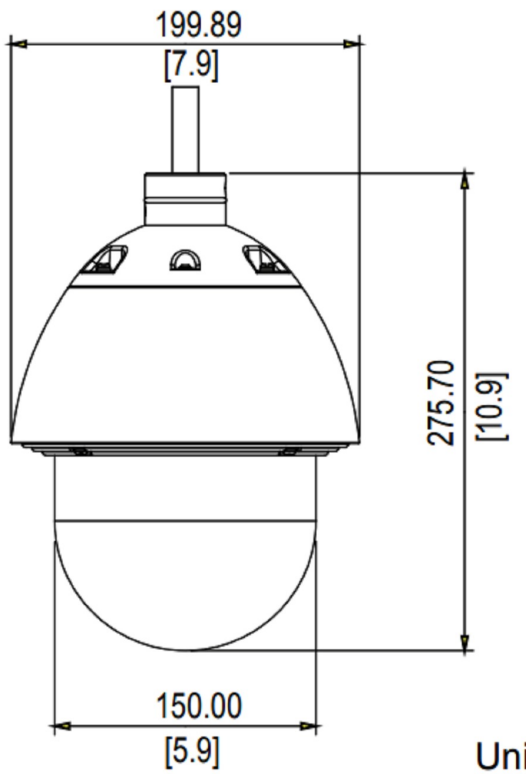
* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

► Photo Indication



- 1 Reset Button
- 2 Memory Card Slot
- 3 Power LED
- 4 Audio Output
- 5 Audio Input
- 6 Digital Input/Output
- 7 AC 24V Power Input
- 8 Ethernet Port













► Dimension Diagram



Unit: mm [inch]


► Related Products

Mounting Accessories - Camera Mount


PMAX-0102		Straight Tube
PMAX-0103		Straight Tube with Bracket
PMAX-0104		Extension Tube
PMAX-0302		Gooseneck with Bracket
PMAX-0303		Gooseneck
PMAX-0312		PTZ Wall Mount for Outdoor PTZ / Speed Dome (except KCM-8211 & TCM-6630)
PMAX-0402		Corner Mount
PMAX-0503		Pole Mount (for PMA-0102, PMA-0312, PMA-0313, PMA-0314, PMA-0702, PMA-1106, PMA-1107), supports 5.25" to 8.5" Poles
PMAX-0505		Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMA-0312, PMA-0313, PMA-0314, PMA-0330), supports 2" to 3" Poles
PMAX-0702		Junction Box for PTZ and Dome Cameras
PMAX-0807		Gangbox Converter (for PMA-0102, PMA-0312, PMA-0313, PMA-0314, PMA-0321), supports Two-Gang Boxes
PMAX-0808		Converter Ring, 1.5" NPT for Third-Party Mounting Accessories

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


Dome Covers - Transparent Dome Cover

R701-30001		Vandal Proof Transparent Dome Cover (for I93~I97, I910, B916, B917)
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Dome Covers - Smoked Dome Cover

PDCX-1108		Vandal Proof Smoked Dome Cover for I93~I97, I99, I910, B916, B917, B922, B943
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Power Supply Accessories - Power Adapter

PPBX-0005		Power Adapter AC 220V for TCM-6630
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PPBX-0008



Power Adapter AC 100~240V, with universal connectors for PLED-0203~PLED-0205

Power Supply Accessories - PoE Injector

PPOE-0102



High PoE Injector (for I93~I910, KCM-8211) , IEEE 802.3at compliant, AC 100~240V, with universal connectors

PPOE-0103



High PoE Injector, Single-port, 60W Gigabit Midspan, 4-Pairs, 802.3at Compliant, AC 100~240V, with universal connectors (for, I93~I910, I915, B915~B917, B922, B928, B945, B949, A950, A951)

PPOE-0104



High PoE Injector, Single-port, 10/100/1000Mbps 60W, 4-Pairs, 802.3at Compliant, AC 100~240V, with universal connectors (for, I93~I910, I915, B915~B917, B922, B928, B945, B949, A950, A951)

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-1101



PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W)

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