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2MP Outdoor Speed Dome with D/N, Adaptive IR, Extreme WDR, ELLS, 33x Zoom Lens

- 2 Megapixel
- Day & Night with Extreme Low Light Sensitivity and Adaptive IR LED
- 33x Zoom Lens with f4.5-148.5mm/F1.55-F5.0, DC iris, Auto focus
- Extreme WDR
- Overview, Zoom and Tracking (OZT)
- Taiwan IoT Cybersecurity Certification Level 2 (TCA)
- Event trigger, response and notification

Specifications

Device

Product TypeSpeed DomeMaximum Resolution2MPApplication EnvironmentOutdoorImage SensorProgressive Scan CMOSSensor Size1/2.8 "Effective Pixels1944(H) X 1224(V) (2.38 MP)			
Application Environment Outdoor Image Sensor Progressive Scan CMOS Sensor Size 1/2.8 "	Speed Dome		
Image Sensor Progressive Scan CMOS Sensor Size 1/2.8 "			
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 F1.55 (30 IRE); B/W: 0.001 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 8 (850 nm)			
IR Working Distance 200m			
Electronic Shutter 1/5-1/32000 second (manual mode); 1/5-1/32000 second (auto mode)			

Speed Dome

Horizontal Resolution (TV Lines)	1800 TVL
S/N Ratio	75 dB

Lens

Lens			
Focal Length	Zoom, f4.5-148.5mm		
Aperture	F1.55-F5.0		
Zoom Ratio	33x optical zoom, 16x digital zoom		
Zoom Speed	2.7 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	69.3° - 3°		
Vertical Viewing Angle	38° - 1.7°		
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° - 16°/second			
Manual Panning / Tilting Speed	0.16° - 54.4°/second, 0.16° - 27.2°/second			
Preset Panning / Tilting Speed	0.16° - 300°/second, 0.16° - 150°/second			
Panning Range	360° endless			
Tilting Range	20°~200°			
PTZ Control	Remote manual control, 256 preset points, 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	60 fps at 1920 x 1080 60 fps at 1280 x 720 30 fps at 640 x 480 30 fps at 320 x 240			
High Frame Mode	Support			
Multi-Streaming	multaneous triple streams based on configurations of video resolution, compression format, and frame rate			
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			

Speed Dome

Digital Noise Reduction	2D + 3D DNR			
Privacy Mask	20 configurable 3D privacy masks			
Text Overlay	Yes			
On-Screen Graphics (Picture Overlay)	Yes			
Built-in Analytics	Basic Face Detection, Object Based Motion Detection, Tampering Detection, Shock Detection, PTZ Auto Tracking, 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, Direction Detection, Automatic License Plate Recognition, People Queue Detectio (Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to maximize analytical accuracy)			
Image Orientation	Flip, Mirror			
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 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 ac control, Standard IoT Security (anti-hacking, anti-malware)			
Video Analytics				
Analysis Source Type	Video			
Metadata Accuracy	Standard			
Event				
Event Trigger	Video motion detection (10 included and excluded polygonal regions), External device through digital input, Sound detection, Intelligent event 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 PTZ preset point or preset tour, Change camera settings, Command other devices, E-mai 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			
System				
System Monitor	CPU loading, memory usage and network statistics via API			
System Log	Support			

Speed Dome

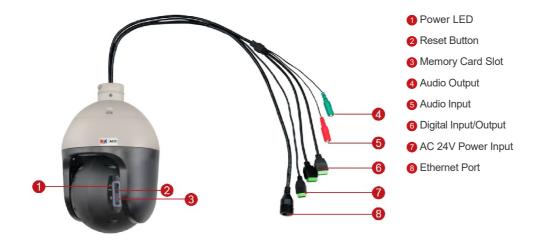
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Watchdog	Support			
Integration				
Unified Solution	Fully compatible with ACTi software			
Software Development Kit	Yes			
GPS Position	Manual setting			
Edge Recording	Support (integration with NVR by ONVIF Profile G or proprietary protocol)**			
ONVIF Compliant	Yes, Profile S, Profile G, Profile T, Profile Q, Profile M* (To be available through future firmware upgrade)			
GB28181 Compliant	Yes			
Web Browser	IE 11, Google Chrome, Microsoft Edge, Apple Safari			
Auto Firmware Upgrade	Yes			
Interface				
Audio Interface	Cable with 3.5mm Phone Jack			
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 60W			
Power Consumption	50 W (PoE, heater, fan and IR on), 62 W (AC, heater, fan and IR on)			
Weight	3112g (6.86lb)			
Dimensions	(Ø x H): 170mm x 260mm (6.69" x 10.23")			
Environmental Casing	Weatherproof (IP66), Vandal proof metal casing (IK10), Built-in dehumidifier, Scratch-resistant and water-repellent lens glass			
Corrosion Protection	Ordering Number: I98-K1. 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 ~ 55°C (-40°F ~ 131°F) within 30 minutes			
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)			
Operating Humidity	10% - 85% RH			
Approvals	CE Class B, FCC Class B, EAC, BIS, IP66, NEMA 4X, IK10 (metal casing), UL Listed (UL 60950-1), Taiwan IoT Cybersecurity Certification Level 2 (TCA)			
Real-time Clock (RTC)	Yes			

Warranty

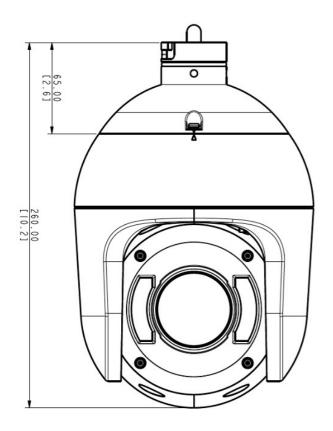
3 Year(s) (1 year in continuous motion). For extended warranty offering, see http://www.acti.com/support/warranty

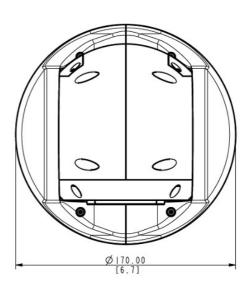
 $^{^{\}star\star}$ Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

Photo Indication



Dimension Diagram





Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

		<u> </u>
PMAX-0102	1	Straight Tube
PMAX-0103	1	Straight Tube with Bracket
PMAX-0104		Extension Tube
PMAX-0302	$\bigcap_{\mathbb{N}}$	Gooseneck with Bracket
PMAX-0303	\bigcap_{i}	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 PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" 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-0702		Junction Box for PTZ and Dome Cameras
PMAX-0807	•	Gangbox Converter (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0321), supports Two-Gang Boxes
PMAX-0808		Converter Ring, 1.5" NPT for Third-Party Mounting Accessories

 $\textbf{Note} : \textbf{Some mounting accessories may need additional accessories for installation}. \textbf{Please check } \underline{\textbf{www.acti.com/mountingselector}} \textbf{ for more information}.$

Power Supply Accessories - Power Adapter

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

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

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