B76A

12MP f1.65mm Outdoor Hemispheric Dome with IR LED 20m, WDR 130dB



- 12 Megapixel, f1.65mm, Hemispheric Dome
- 1/1.7" Sensor, IR LED 20m, Extreme WDR (130 dB)
- Color Min. Illumination 0.003 lux
- DORI (33 / 13.3 / 6.6 / 3.3m)
- Weatherproof (IP68), Vandal proof (IK10), NEMA 4X, UL Listed

Specifications

Product Profile

Product Type	Hemispheric Dome
Application Environment	Outdoor
Maximum Resolution	12MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/1.7 "
Effective Pixels	4072(H) X 3046(V) (12.4 MP)
Day / Night	Yes
Low Light Sensitivity	Superior
Minimum Illumination	Color: 0.003 lux at F2.8; B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR Sensitivity Range	700-1100nm
IR LED	Adaptive IR LED x 18 (850 nm)
IR Working Distance	20m
Color to B/W Switch	ISP based switch, configurable
Electronic Shutter	1/5-1/16000 second (manual mode); 1/5-1/16000 second (auto mode)

Horizontal Resolution (TV Lines)	2250 TVL
S/N Ratio	75 dB

Lens

Focal Length	Fixed focal, f1.65mm
Aperture	F2.8
Iris	Fixed iris
Focus	Fixed focus
Lens Mount	Board mount
Horizontal Viewing Angle	198.5° (overview area) 121.1° (high detail area)
Vertical Viewing Angle	198.5° (Fisheye View)
Viewing Angle Adjustment	Rotation: -175°-175°
Overview, Zoom and Tracking (OZT) technology	Yes (Pair of intelligent hemispheric camera with I95, I96, I97, I98 and I915 speed dome camera)

Video

Compression	H.264 (Baseline/ Main/ High profile), MJPEG
Maximum Frame Rate vs. Resolution	(Fisheye View) 18 fps at 4000 x 3000 30 fps at 2048 x 2048 30 fps at 1600 x 1200 30 fps at 1280 x 960 30 fps at 1024 x 1024 30 fps at 800 x 600 30 fps at 640 x 480 (Dewarped View) 10 fps at 4096 x 2160 (4K Ultra HD) 10 fps at 3840 x 2160 (4K Ultra HD) 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 (ePTZ View) 30 fps at 1920 x 1080 30 fps at 1600 x 1200 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 1024 x 1024 30 fps at 800 x 600 30 fps at 640 x 480 30 fps at 320 x 240
View Mode	Fisheye View Dewarped View 270-degree Corner View Multiple View ePTZ View
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 (130 dB)
Image Orientation	Flip, Mirror
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Automatic gain control (AGC), Flickerless, Defogging
Privacy Mask	8 configurable regions
Text Overlay	Yes
Built-in Analytics	Object Based Motion Detection, Tampering Detection, Shock Detection, Digital 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 Detection, (Require PC-based or standalone IVS or ALPR Server. Contact ACTi support for recommendations on how to maximize analytical accuracy)

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, 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/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
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)

Video Analytics

Analysis Source Type	Video
Metadata Accuracy	Standard

Detection Range

Observation Range	Detection: 33m Observation: 13.3m Recognition: 6.6m Identification: 3.3m

Event

Event Trigger	Video motion detection (10 included and excluded polygonal regions), External device through digital input, Sound detection, Intelligent event detection,
Event Response	Notify control center, Go to ePTZ 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 storage, Save video or snapshot to storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output

System

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 G, Profile T, Profile Q, Profile M* (To be available through future firmware upgrade)
GB28181 Compliant	Yes
Web Browser	IE 11
Auto Firmware Upgrade	Yes

Interface

Audio Interface	1/1, Terminal block, Built-in microphone
Digital Input/Output	2/2 (Terminal block)

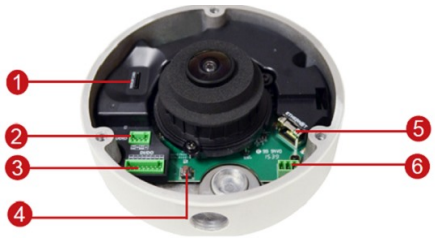
Operating Button	Reset Button

General

Power Source	PoE Class 3 (IEEE802.3af), DC 12V
Power Consumption	12.95 W (PoE, IR on), 10.77 W (PoE, IR off), 7 W (DC)
Weight	936g (2.064lb)
Dimensions	(Ø x H): 152.00mm x 71.00mm (6.0" x 2.8")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 10 years.
Mount Type	Surface, Rough Surface, Gang Box, Pendant, Tilted Mount, Wall Mount, Pole Mount, Corner Mount
Starting Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	CE Class B, FCC Class B, EAC, CB, IP68, IK10, NEMA 4X, UL Listed (UL 60950-1)
Real-time Clock (RTC)	Yes
Warranty	3 Year(s). 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.

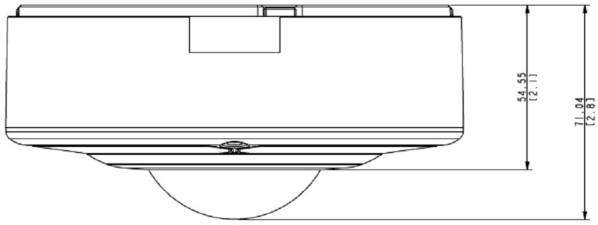
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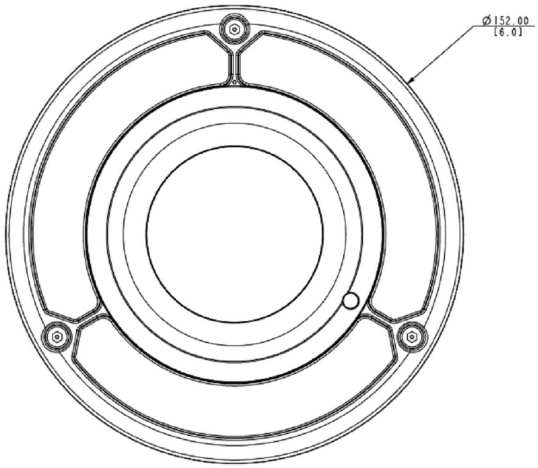




1. Memory Card Slot
2. Audio Input / Output
3. Digital Input/Output
4. Reset Button
5. Ethernet Port
6. DC 12V Power Input
7. Built-in Microphone

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-0130		Mount Kit (for A711, A713)
PMAX-0310		Tilted Wall Mount for Indoor Hemispheric/Fisheye Cameras
PMAX-0330		10-Degree Tilted Wall Mount for Outdoor Hemispheric Cameras
PMAX-0338		35-Degree Tilted Wall Mount for Fisheye and Hemispheric Cameras
PMAX-0354		Heavy Duty Wall Mount for A711, A713
PMAX-0355		10-Degree Tilted Wall Mount (for A711, A713)
PMAX-0356		35-Degree Tilted Wall Mount (for A711, A713)
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-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-0702		Junction Box for PTZ and Dome Cameras
PMAX-0804		Gang Box Converter for Outdoor Domes, supports Two-Gang Boxes
PMAX-0822		Gang Box Converter (for A711, A713)
PMAX-1028		Flush Mount (for B74A, B76A, B77A)

PMAX-1033		Flush Mount (for A711, A713)

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

Dome Covers - Transparent Dome Cover

R701-90002		Dome Cover Housing with Transparent Dome Cover and IR board (for B74A, B76A, B77A)

Dome Covers - Smoked Dome Cover

PDCX-1110		Vandal Proof Smoked Dome Cover for B7x, I7x

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-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-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
PMIC-0201		Passive Microphone Omnidirectional for all Cameras with Mic-In Audio using Cable Wire or Terminal Connector, 2m cable

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

Other Accessories - Camera Part

R707-90003		DIO / AIO connector for I73

Other Accessories - Accessory Part

R707-90006		Cable Gland (for B76A)
R707-90008		Conduit Gland for Hemispheric Cameras (for B76A)