

# B97A

## 3MP with D/N, Superior WDR, 10x Zoom Lens



- 3 Megapixel
- Day & Night
- 10x Zoom Lens with f4.9-49mm/F1.6-F3.0, DC iris, Auto focus
- Superior WDR
- Pan & Tilt
- Event trigger, response and notification

## ► Specifications

### Device

Product Type	Mini PTZ
Maximum Resolution	3MP
Application Environment	Outdoor
Image Sensor	Progressive Scan CMOS
Sensor Size	1/3 "
Effective Pixels	2048(H) X 1536(V) (3.15 MP)
Day / Night	Yes
Low Light Sensitivity	Standard
Minimum Illumination	Color: 0.1 lux at F1.8 (30 IRE , 2400 K); B/W: 0.05 lux at F1.8 (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)	1500 TVL
S/N Ratio	52 dB

**Lens**

Focal Length	Zoom, f4.9-49mm
Aperture	F1.6-F3.0
Zoom Ratio	10x optical
Zoom Speed	2 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	49.6° - 5.6°
Vertical Viewing Angle	32.3° - 4.1°

**PTZ**

Manual Panning / Tilting Speed	0.1° - 190°/second, 0.1° - 150°/second
Preset Panning / Tilting Speed	0.1° - 190°/second, 0.1° - 150°/second
Panning Range	-175°~175°
Tilting Range	0°~180° (with E-flip)
PTZ Control	Remote manual control, 10 preset tours, Auto scan
Preset Accuracy (Panning/Tilting)	1.5°/1.5°
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	20 fps at 2048 x 1536 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	Superior WDR (110 dB)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Automatic gain control, Flickerless
Digital Noise Reduction	2D + 3D DNR
Privacy Mask	4 configurable regions for each of 17 preset points
Text Overlay	Yes
On-Screen Graphics	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 RJ-45 connector
Security	IP address filtering, HTTPS encryption, Password protected user level, Anonymous login, IEEE 802.1X network access control

**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

**Integration**

Unified Solution	Fully compatible with ACTi software
Software Development Kit	Yes
GPS Position	Manual setting
ONVIF Compliant	Yes, Profile S, Profile G
GB28181 Compliant	Yes
Web Browser	IE 11
Auto Firmware Upgrade	Yes

**Interface**

Audio Interface	Terminal block
Local Storage	MicroSDHC, MicroSDXC memory card slot (card not included)
Digital Input/Output	1/1

**General**

Power Source	DC 12V, PoE Class 3 (IEEE802.3af)
Power Consumption	12.2 W (PoE, heater and fan on)
Weight	1306g (2.88lb)
Environmental Casing	Weatherproof (IP67), Vandal proof (IK10)
Mount Type	Surface, Gang Box, Flush, Pendant, Converter for NPT Standard Mounts, Wall Mount, Pole Mount, Corner Mount
Fan	Yes
Heater	Yes
Starting Temperature	-30°C ~ 50°C (-22°F ~ 122°F) within 30 minutes
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)
Operating Humidity	10% - 85% RH
Approvals	CE, FCC, IP67, IK10, NEMA 4X, UL Listed (UL 60950-1)

Warranty

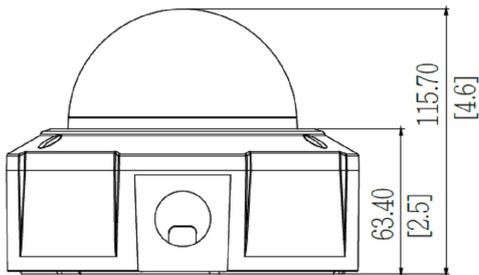
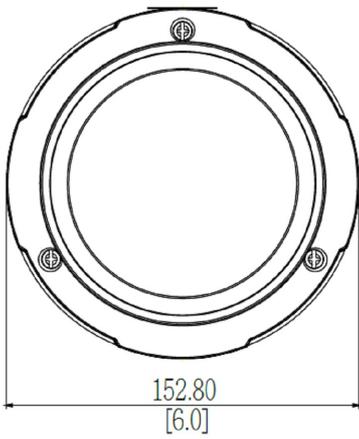
3 Year(s)\* (3 months in continuous motion)

### ▶ Photo Indication



- 1 Ethernet Port
- 2 DC 12V Power Input
- 3 Digital Input / Output and Audio-In / Audio-Out
- 4 Reset Button
- 5 Memory Card Slot

### ▶ Dimension Diagram



Unit: mm [inch]

## ▶ Related Products

### Mounting Accessories - Camera Mount

PMAX-0101		Mount Kit for all Dome Cameras (except Mini Domes)
PMAX-0102		Straight Tube
PMAX-0103		Straight Tube with Bracket
PMAX-0104		Extension Tube
PMAX-0302		Gooseneck with Bracket
PMAX-0303		Gooseneck
PMAX-0314		Heavy Duty Wall Mount for Outdoor Domes (for B8x, B9x, D7x, D8x, E7x [except E78], E8x, I7x)
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-0802		Surface Mount for Outdoor Dome Cameras
PMAX-0804		Gang Box Converter for Outdoor Domes, supports Two-Gang Boxes
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
PMAX-1019		Flush Mount for B9xA, B910
PMAX-1501		Cable Gland for Outdoor Domes (except Hemispheric Domes)

**Note:** Some mounting accessories may need additional accessories for installation. Please check [www.acti.com/mountingselector](http://www.acti.com/mountingselector) for more information.

## Dome Covers - Transparent Dome Cover

R701-70002		Transparent Dome Cover (for E61x,E81X)
R701-70007		Transparent Dome Cover Only (for B71, B9xA, B910, B914, E610, E616, E617, E618, E621, E89, E815, E816, E817)

## Dome Covers - Smoked Dome Cover

PDCX-1104		Vandal Proof Smoked Dome Cover for B9xA, B910, B914, E61x, E621, E89, E81x, E822
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## Power Supply Accessories - Power Adapter

PPBX-0011		Power Adapter AC 100~240V, with universal connectors for all DC12V powered devices
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## Power Supply Accessories - PoE Injector

PPOE-0001		PoE Injector IEEE 802.3af compliant, AC 100~240V, with universal connectors
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## Network & Storage Peripherals - Data Switch

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
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## Extenders - PoE over Coaxial Extender Kit

PPOC-0100		Planet LRP-101C-KIT Power over Coax Adapter Kit
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## Audio Devices - Microphone

PMIC-0100		Active Microphone Omnidirectional for all Cameras with Line-in Audio
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## Illuminators - IR LED Illuminator

PLED-0200		SPINLUX (SL-A2IRXX10-24CL) IR Illuminator 10° Angle with 120 m approx. range
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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
PLED-0205		SPINLUX (SL-A2IRXX35-48CL) IR Illuminator 35° Angle with 40 m approx. range

### Other Accessories - Accessory Part

R707-70001		Conduit Gland for Dome Cameras
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### Product Demo - Camera Demo Kit

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