

# B78

## 12MP Outdoor Hemispheric Dome with D/N, Adaptive IR, Extreme WDR, SLLS, Fixed Lens



- 12 Megapixel with 4K Ultra HD
- Day & Night with Superior Low Light Sensitivity and Adaptive IR LED
- Fisheye Lens with f1.65mm/F2.8
- Extreme WDR
- H.265 Compression
- 360°/180° Panorama View with Dewarped Streaming
- Event trigger, response and notification

### ► Specifications

#### Device

|                                  |  |
|----------------------------------|--|
| Product Type                     | Hemispheric Dome   |
| Maximum Resolution               | 12MP   |
| Application Environment          | Outdoor  |
| 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: 0.15 lux; B/W: 0 lux (IR LED on)                          |
| Color to B/W Switch              | ISP based switch, configurable                                   |
| Mechanical IR Cut Filter         | Yes  |
| IR LED                           | Adaptive IR LED  |
| IR Working Distance              | 10m  |
| Electronic Shutter               | 1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode) |
| Horizontal Resolution (TV Lines) | 3000 TVL   |

## 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) |
| Viewing Angle Adjustment | Rotation: -175°-175°                             |

## Video

|                                   |   |
|-----------------------------------|---|
| Compression                       | H.265, H.264 (Baseline/ Main/ High profile), MJPEG  |
| Maximum Frame Rate vs. Resolution | (Fisheye View) 30 fps at 3000 x 3000 30 fps at 2048 x 2048 30 fps at 1024 x 1024 30 fps at 640 x 640 (Dewarped View) 30 fps at 4096 x 2160 (4K Ultra HD) 30 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 800 x 600 30 fps at 640 x 480  |
| View Mode                         | Fisheye View Dewarped View 270-degree Corner View Multiple View ePTZ View   |
| 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 (130 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                      | Yes, 4 configurable regions   |
| Text Overlay                      | Yes   |
| On-Screen Graphics                | Yes   |
| Built-in Analytics                | Tampering 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) |
| Image Orientation                 | Flip, Mirror  |

## Audio

|                   |   |
|-------------------|---|
| Audio Type        | 2-way, Built-in Microphone, Mic-in, Line-in, Line-out |
| Audio Compression | G.711 u-law   |

## 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 |
|----------|--|

## Video Analytics

|                      |          |
|----------------------|----------|
| Analysis Source Type | Video    |
| Metadata Accuracy    | Standard |

## Event

|                |   |
|----------------|---|
| Event Trigger  | Video motion detection (3 regions), External device through digital input, Sound detection, Tampering detection, Video streams loss   |
| 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 |

## 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 S, Profile G, Profile T, Profile Q                            |
| Web Browser              | IE 11  |
| Auto Firmware Upgrade    | Yes  |

## Interface

|                      |  |
|----------------------|--|
| Audio Interface      | 1/1, Terminal block, Built-in microphone   |
| Analog Video Output  | 1 x CVBS, Terminal block   |
| Local Storage        | MicroSDHC, MicroSDXC Memory Card Slot (card not included, up to 256GB, Kingston or Sandisk only) |
| Digital Input/Output | 1/1 (Terminal block), DC Output Voltage: 5V  |
| Operating Button     | Reset Button   |

## General

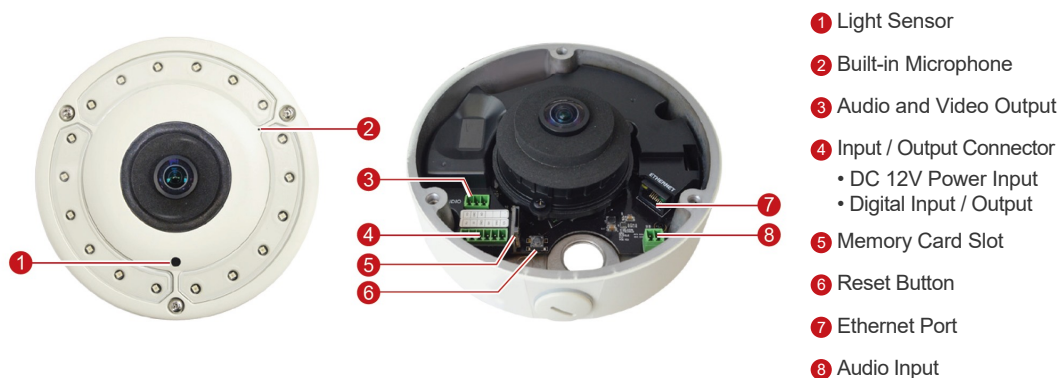
|                       |   |
|-----------------------|---|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)   |
| Power Consumption     | 12.95 W (PoE)   |
| Weight                | 954g (2.103lb)  |
| Dimensions            | (Ø x H): 152.00mm x 71.00mm (6.0" x 2.8")   |
| Environmental Casing  | Weatherproof (IP68), Vandal proof (IK10)  |
| Mount Type            | Surface, Rough Surface, Gang Box, Pendant, Tilted Mount, Wall Mount, Pole Mount, Corner Mount |
| Starting Temperature  | -20°C ~ 50°C (-4°F ~ 122°F)   |
| Operating Temperature | -40°C ~ 50°C (-40°F ~ 122°F)  |

|                       |  |
|-----------------------|--|
| Approvals             | CE, FCC, IP68, NEMA 4X, IK10   |
| Real-time Clock (RTC) | Yes  |
| Warranty              | 3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

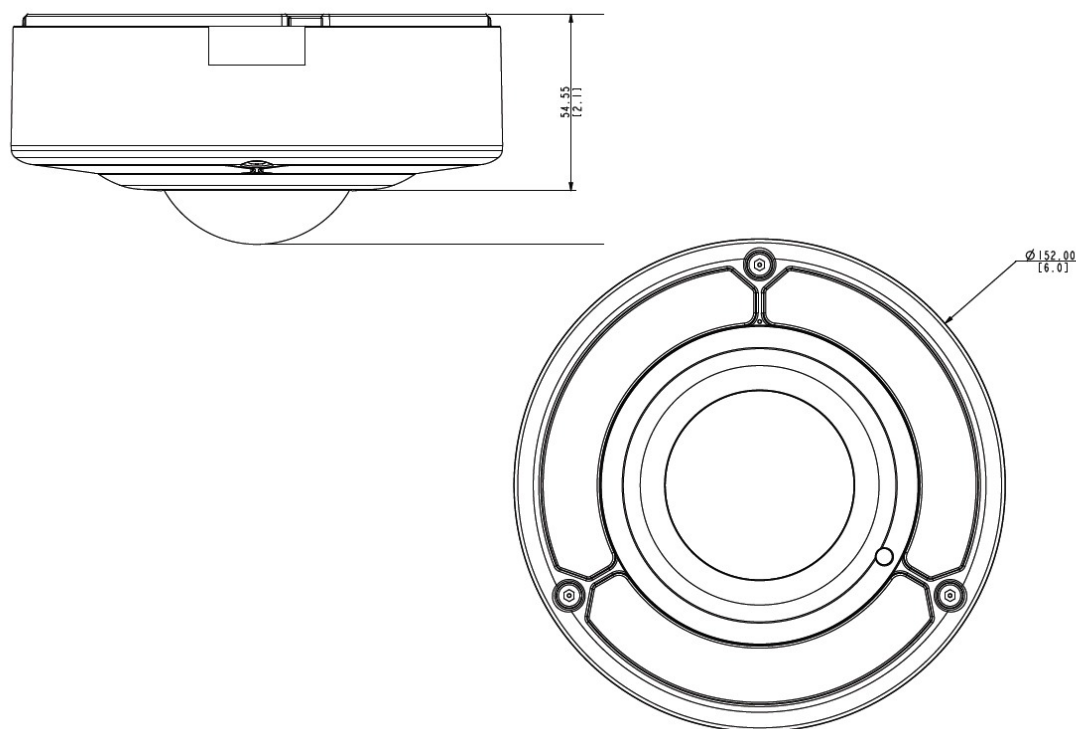
\* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.



## ► Photo Indication



















## ► Dimension Diagram



Unit: mm [inch]

## ► Related Products

### Mounting Accessories - Camera Mount

|           |   |  |
|-----------|---|--|
| 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-0310 |                            | Tilted Wall Mount for Indoor Hemispheric/Fisheye Cameras   |
| PMAX-0314 |                           | Heavy Duty Wall Mount for Outdoor Domes (for B8x, B9x, D7x, D8x, E7x [except E78], E8x, I7x)   |
| PMAX-0330 |                          | 10-Degree Tilted Wall Mount for Outdoor Hemispheric Cameras  |
| PMAX-0338 |                          | 35-Degree Tilted Wall Mount for Fisheye and Hemispheric Cameras  |
| 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-0504 |  | Pole Mount (for B4x, B41x, E44, E45, E46, E48, E44A, E45A, E46A, E41x, I4x, PMA-0330), supports 3.25" to 7.0" 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-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-1028



Flush Mount (for B74A, B76A, B77A)

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

Power Supply Accessories - PoE Injector

PPOE-0002



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

Network & Storage Peripherals - Data Switch

PPSW-0105



PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W)

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

Other Accessories - Accessory Part

R707-70001



Conduit Gland for Dome Cameras