

# A77

## 6MP 2.8mm Outdoor Dome with D/N, IR, Extreme WDR, SLLS,



- 6 Megapixel
- Day & Night with Superior Low Light Sensitivity and IR LED
- Fixed Lens, f2.8mm/F1.6
- Extreme WDR (150dB)
- Super wide angle
- Taiwan IoT Cybersecurity Certification Level 1 (TAICS)
- Event trigger, response and notification

### ► Specifications

#### Device

|                          |                                          |
|--------------------------|------------------------------------------|
| Product Type             | Dome                                     |
| Maximum Resolution       | 6MP                                      |
| Application Environment  | Outdoor                                  |
| Image Sensor             | Progressive Scan CMOS                    |
| Sensor Size              | 1/2.4 "                                  |
| Effective Pixels         | 3864(H) X 2192(V) (8.46 MP)              |
| Day / Night              | Yes                                      |
| Low Light Sensitivity    | Superior                                 |
| Minimum Illumination     | Color: 0.003 lux; B/W: 0 lux (IR LED on) |
| Mechanical IR Cut Filter | Yes                                      |
| IR LED                   | IR LED x 3 (850 nm)                      |
| IR Working Distance      | 65m                                      |
| Electronic Shutter       | 1/5-1/100000 second (auto mode)          |
| S/N Ratio                | 75 dB                                    |

## Lens

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Focal Length             | Fixed focal, f2.8mm                           |
| Aperture                 | F1.6                                          |
| Iris                     | Fixed iris                                    |
| Focus                    | Fixed focus                                   |
| Lens Mount               | Board mount                                   |
| Horizontal Viewing Angle | 103.6°                                        |
| Vertical Viewing Angle   | 56°                                           |
| Viewing Angle Adjustment | Pan: 0°-355°, Tilt: 0°-75°, Rotation: 0°-355° |

## Video

|                                      |                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression                          | H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.264 Adaptive Stream (equivalent to Zip or Smart Stream or H.264+), MJPEG                                                                                                                                                                  |
| Maximum Frame Rate vs. Resolution    | 30 fps at 3200 x 1800 30 fps at 3072 x 2048 30 fps at 2592 x 1944 30 fps at 2560 x 1920 30 fps at 2688 x 1520 30 fps at 2560 x 1440 30 fps at 1920 x 1080 30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 640 x 480                                                                                          |
| Multi-Streaming                      | Simultaneous quad streams                                                                                                                                                                                                                                                                                        |
| Bit Rate Mode                        | Constant, Variable                                                                                                                                                                                                                                                                                               |
| Wide Dynamic Range                   | Extreme WDR (150 dB)                                                                                                                                                                                                                                                                                             |
| Image Enhancement                    | White Balance, Brightness, Contrast, Sharpness, Saturation, Backlight compensation (BLC), Strong Light Suppression                                                                                                                                                                                               |
| Digital Noise Reduction              | 2D + 3D DNR                                                                                                                                                                                                                                                                                                      |
| Privacy Mask                         | 4 configurable regions                                                                                                                                                                                                                                                                                           |
| Text Overlay                         | Yes                                                                                                                                                                                                                                                                                                              |
| On-Screen Graphics (Picture Overlay) | Yes                                                                                                                                                                                                                                                                                                              |
| Built-in Analytics                   | Deep Learning : Face Detection, People Detection, Vehicle Detection, Tampering Detection, Object Based Motion Detection, Object Line Crossing Detection, Object Enter Area Detection, People Line Crossing Detection, People Enter Area Detection, Vehicle Line Crossing Detection, Vehicle Enter Area Detection |
| Image Orientation                    | Flip, Mirror, Rotation (Corridor mode) (90°, 180°, 270°)                                                                                                                                                                                                                                                         |

## Audio

|                   |                                |
|-------------------|--------------------------------|
| Audio Type        | 2-way, Line-in, Line-out       |
| Audio Compression | PCM, G.711, AAC(*3), G.726(*3) |

## Network

|                            |                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Protocol & Service | IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, SFTP, IGMP, ICMP, ARP, 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 (4 polygonal regions with up to 10 vertices), External device through digital input, Intelligent event detection, Sound 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, Change camera settings, Command other devices, E-mail notification with snapshots, Play the audio file, Push notification to mobile device, Save video to 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                                                  |
| Watchdog       | Support                                                  |

## Integration

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Unified Solution      | Fully compatible with ACTi software                                           |
| GPS Position          | Manual setting                                                                |
| Edge Recording        | Support (integration with NVR by ONVIF Profile G or proprietary protocol)(*2) |
| ONVIF Compliant       | Yes, Profile S, Profile G, Profile T, Profile M                               |
| Web Browser           | IE 11, Google Chrome*, Microsoft Edge*, Apple Safari*                         |
| Auto Firmware Upgrade | Yes                                                                           |

## Interface

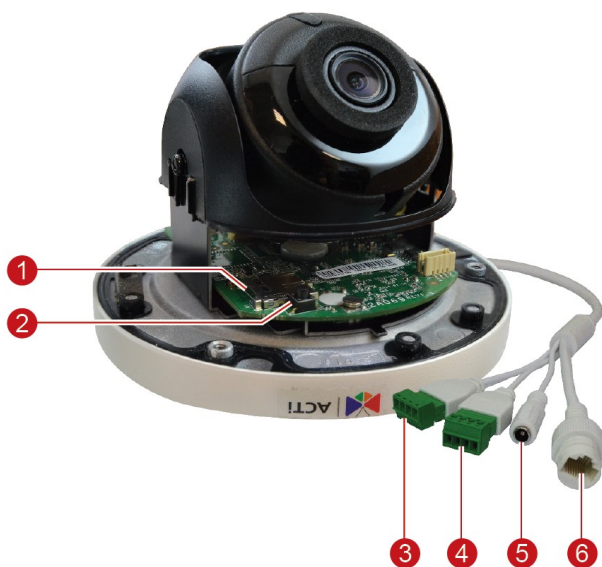
|                      |                      |
|----------------------|----------------------|
| Digital Input/Output | 1/1 (Terminal block) |
| Operating Button     | Reset Button         |

## General

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)                                                                                                      |
| Power Consumption     | 7.5 W (PoE)                                                                                                                            |
| Dimensions            | (Ø x H): 110.82mm x 84.7mm (4.36" x 3.33")                                                                                             |
| Environmental Casing  | Weatherproof (IP68), Vandal proof (IK10)                                                                                               |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.                                    |
| Mount Type            | Wall Mount, Pole Mount, Pendant, Flush, Gang Box                                                                                       |
| Operating Temperature | -40°C ~ 60°C (-40°F ~ 140°F)                                                                                                           |
| Approvals             | CE Class B, FCC Class B, IP68, IK10, UL Listed, Taiwan IoT Cybersecurity Certification Level 1 (TAICS)                                 |
| Color                 | White                                                                                                                                  |
| 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> |

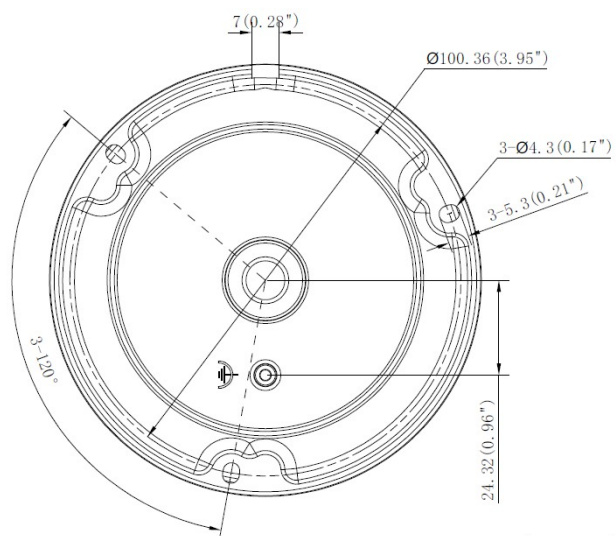
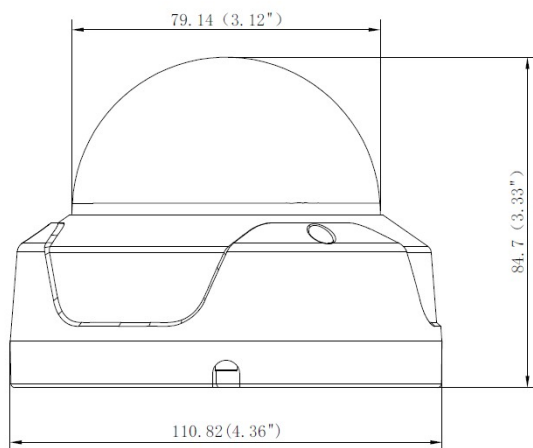
\* cross-browser compatibility: Not available for H.265 video decoding \*2 Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

## ► Photo Indication



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

## ► Dimension Diagram



Unit: mm(inch)

Unit: mm [inch]

## ► Related Products

### Mounting Accessories - Camera Mount

|           |                                                                                     |                                                                                                        |
|-----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| PMAX-0122 |    | Straight Tube (for A71, A88, A9x,)                                                                     |
| PMAX-0123 |    | Extension Tube (for A71, A88, A9x,)                                                                    |
| PMAX-0128 |    | Pendant Mount (for Z85, Z86, Z87, Z810)                                                                |
| PMAX-0318 |    | Wall Mount (for Z91, Z97, Z98, Z710, Z714, Z715, A71, A76, A77)                                        |
| PMAX-0323 |    | Wall Mount with Built-in Junction Box (for Z91, Z94, Z95, Z97, Z98, Z77, Z81, Z82, Z85, Z86, Z87, A7X) |
| PMAX-0506 |    | Pole Mount (for A31, A4x, E78, E9x, E9xx), supports 2" to 3" Poles                                     |
| PMAX-0527 |    | Pole Mount (for Z4x, Z710, Z8x, Z9x, A7x), supports 2.64" to 5" Poles                                  |
| PMAX-0532 |   | Pole Mount (Z710, Z8x, Z9x, A7x), supports 2.6" to 5" Poles                                            |
| PMAX-0718 |  | Junction Box (for A71, A74, A77)                                                                       |
| PMAX-0816 |  | Converter Ring, 1.0" NPT for Third-Party Mounting Accessories, White                                   |
| PMAX-0820 |  | Gang Box Converter (for A71, A74, Z91, Z94, Z95), supports 4" Round and 4" Octagon Boxes               |
| PMAX-1032 |  | Flush Mount (for A71, A74, A77, E78, E79, E710)                                                        |
| PMAX-1402 |  | Mount Kit (for Z91, Z97, Z98, Z710, Z714, Z715, A71, A76, A77)                                         |

**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

|            |                                                                                     |                                      |
|------------|-------------------------------------------------------------------------------------|--------------------------------------|
| R701-70012 |  | Transparent Dome Cover for A71, A74. |
|------------|-------------------------------------------------------------------------------------|--------------------------------------|

### Power Supply Accessories - Power Adapter

|           |                                                                                     |                                                                       |
|-----------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| PPBX-0013 |  | Power Adapter AC 100~240V (EU), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x |
| PPBX-0014 |  | Power Adapter AC 100~240V (UK), for A3x, A4x, A88, A9x, Z31, Z8x, Z9x |

PPBX-0026



Power Adapter AC 100~240V (US), for A3x, A4x, A7x, A88, A9x, Z3x, Z4x, Z7x, Z8x, Z9x

Audio Devices - Microphone

PMIC-0100



Active Microphone Omnidirectional for all Cameras with Line-in Audio

