

# A313

## 4MP 2.8mm Mini Bullet with D/N, IR, Extreme WDR, SLLS,



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

## ► Specifications

### Device

|                          |                                          |
|--------------------------|------------------------------------------|
| Product Type             | Mini Bullet                              |
| Maximum Resolution       | 4MP                                      |
| Application Environment  | Outdoor                                  |
| Image Sensor             | Progressive Scan CMOS                    |
| Sensor Size              | 1/2.7 "                                  |
| Effective Pixels         | 2688(H) X 1520(V) (4 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 | 99°                                           |
| Vertical Viewing Angle   | 56°                                           |
| Viewing Angle Adjustment | Pan: 0°-360°, Tilt: 0°-90°, Rotation: 0°-360° |

## 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 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°)                                                                                                                                                                                                                                                         |

## 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), 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, Push notification to mobile device, Save video to storage, Upload video to NVR server, Upload video or snapshot to FTP server |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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

|                  |              |
|------------------|--------------|
| Operating Button | Reset Button |
|------------------|--------------|

## General

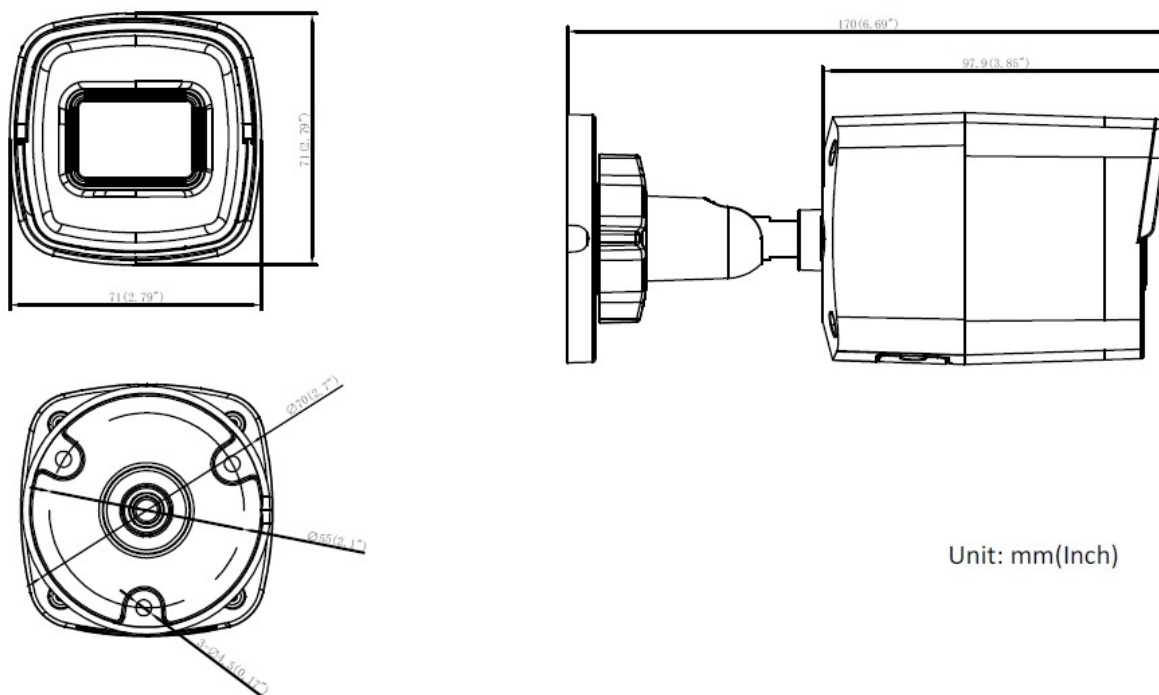
|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Source          | DC 12V, PoE Class 3 (IEEE802.3af)                                                                                                      |
| Power Consumption     | 6 W (DC), 7 W (PoE)                                                                                                                    |
| Weight                | 490g (1.1lb)                                                                                                                           |
| Dimensions            | (W x H x D): 71mm x 71mm x 170mm (2.79" x 2.79" x 6.69")                                                                               |
| Environmental Casing  | Weatherproof (IP68), Vandal proof metal casing (IK10)                                                                                  |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 2-3 years.                                    |
| Mount Type            | Pole Mount                                                                                                                             |
| Operating Temperature | -40°C ~ 60°C (-40°F ~ 140°F)                                                                                                           |
| Operating Humidity    | 10% - 95% RH, non-condensing                                                                                                           |
| Approvals             | CE Class B, FCC Class B, IP68, IK10 (metal casing), 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



## ► Dimension Diagram



Unit: mm(Inch)

Unit: mm [inch]

▶ Related Products

Mounting Accessories - Camera Mount

PMAX-0533  Pole mount for A310, A311.

PMAX-0726  Junction box for A310, A311

**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 - 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

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)