

# Z53

## 5MP Deep Learning AI LightGuard f2.8mm Outdoor Fixed Turret with IR LED 50m, WDR 130dB



- 5 Megapixel, f2.8mm Fixed Turret
- Deep Learning AI, LightGuard
- Smart Motion Detection
- Weatherproof (IP68), Vandal proof (IK10), UL Listed
- Super wide angle
- Built-in Analytics
- Event trigger, response and notification

### ► Specifications

#### Product Profile

|                          |  |
|--------------------------|--|
| Product Type             | Fixed Turret   |
| Application Environment  | Outdoor  |
| Maximum Resolution       | 5MP  |
| Image Sensor             | Progressive Scan CMOS  |
| Sensor Size              | 1/2.7 "  |
| Day / Night              | Yes  |
| Low Light Sensitivity    | Superior   |
| LightGuard               | Yes  |
| Minimum Illumination     | Color: 0.003 lux at F1.6 (AGC on); B/W: 0 lux (IR LED on)      |
| Mechanical IR Cut Filter | Yes  |
| IR LED                   | Adaptive IR LED  |
| IR Working Distance      | 50m  |
| Electronic Shutter       | 1-1/100000 second (manual mode); 1-1/100000 second (auto mode) |
| S/N Ratio                | 75 dB  |

## Lens

|                          |   |
|--------------------------|---|
| Focal Length             | Fixed focal, f2.8mm                           |
| Aperture                 | F1.6  |
| Iris                     | Fixed iris                                    |
| Focus                    | Fixed focus                                   |
| Horizontal Viewing Angle | 112.9°  |
| Vertical Viewing Angle   | 59.1°   |
| Viewing Angle Adjustment | Pan: 0°-360°, Tilt: 0°-80°, 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 | 25 fps at 2880 x 1620 25 fps at 2560 x 1440 30 fps at 2304 x 1296 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 720 x 576 30 fps at 640 x 360                               |
| Bit Rate                          | 128Kbps - 6Mbps  |
| Multi-Streaming                   | Simultaneous dual streams  |
| Digital Noise Reduction           | 2D + 3D DNR  |
| Wide Dynamic Range                | Extreme WDR (130 dB)   |
| Image Orientation                 | Flip, Mirror, Rotation (Corridor mode)(±90°, 180°)   |
| Image Enhancement                 | White Balance, Backlight compensation (BLC), Highlight compensation (HLC), Defogging   |
| Privacy Mask                      | 4 configurable regions   |
| Text Overlay                      | Yes  |
| Built-in Analytics                | Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, People Line Crossing Detection, People Intrusion Detection, Tampering Detection |

## Analytics

|                  |     |
|------------------|-----|
| Deep Learning AI | 1.0 |
|------------------|-----|

## Audio

|                   |                            |
|-------------------|----------------------------|
| Audio Type        | 1-way, Built-in Microphone |
| Audio Compression | G.711                      |

## Network

|                            |  |
|----------------------------|--|
| Network Protocol & Service | IPv4, TCP, UDP, DHCP, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, RTMP, SMTP, FTP, IGMP, ICMP, ARP, UPnP, SNMP, QoS, SSL |
| Ethernet Port              | 1 x Ethernet (10/100 Base-T), RJ-45 connector  |

## Event

|                |  |
|----------------|--|
| Event Trigger  | Video motion detection, Sound detection, Intelligent event detection, Tampering detection            |
| Event Response | E-mail notification with snapshots, Upload snapshot to FTP server, Save video or snapshot to storage |

## Integration

|                 |   |
|-----------------|---|
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T          |
| Web Browser     | IE 11, Google Chrome, Microsoft Edge, Firefox |

## Interface






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

## General

|                       |  |
|-----------------------|--|
| Power Source          | DC 12V, PoE (IEEE802.3af)  |
| Power Consumption     | 4.4 W (PoE)  |
| Weight                | 320g (0.71lb)  |
| Dimensions            | (Ø x H): 118mm x 95mm (4.6" x 3.8")  |
| 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  |
| Operating Temperature | -30°C ~ 60°C (-22°F ~ 140°F)   |
| Operating Humidity    | ≤95% RH, non-condensing  |
| Surge Protection      | 4KV  |
| Approvals             | CE Class A, FCC Class A, IP68, IK10, UL Listed, RoHS   |
| Color                 | White  |
| Material              | Metal Plastic  |
| Real-time Clock (RTC) | No   |
| Warranty              | 2 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

## ► Related Products

### Mounting Accessories - Camera Mount

|           |   |   |
|-----------|---|---|
| PMAX-0128 |  | Pendant Mount (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)                              |
| PMAX-0134 |  | Extension Tube, 200 mm (for Z5x, Z724, Z85, Z86, Z87, Z810, Z972, Q550)                     |
| PMAX-0349 |  | Wall Mount with Built-in Junction Box (for Z71, Z72)  |
| PMAX-0365 |  | Wall Mount with Built-in Junction Box (for Y7x, Z5x, Z7x, Z91x)                             |
| PMAX-0527 |  | Pole Mount (for Z3x, Z4x, Z5x, Z724, Z8x, Z9x, Z972, A7x, Q550), supports 2.64" to 5" Poles |

PMAX-0532



Pole Mount (for Z5x, Z724, Z8x, Z9x, Z972, A7X, Q550), supports 2.6" to 5" Poles

PMAX-0538



PMAX-0727



Junction Box (for Z71, Z72)

**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

PPBX-0034



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)