

E933M

2MP f2.55mm Outdoor Fixed Dome with IR LED 15m, WDR 145dB



- 2 Megapixel, f2.55mm, Fixed Dome
- IR LED 15m, Extreme WDR (145 dB)
- Frame Rate 60fps
- DORI (51 / 20.6 / 10.2 / 5.1m)
- Weatherproof (IP68), Vandal proof (IK10), NEMA 4X, Vibration proof (EN50155)

► Specifications

Product Profile

| | |
|--------------------------|---|
| Product Type | Fixed Dome |
| Application Environment | Outdoor |
| Maximum Resolution | 2MP |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 1944(H) X 1224(V) (2.38 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Superior |
| Minimum Illumination | Color: 0.05 lux at F2.2, B/W: 0 lux at F2.2 (IR LED on) |
| Mechanical IR Cut Filter | Yes |
| IR Sensitivity Range | 700-1100nm |
| IR LED | Adaptive IR LED x 3 (850 nm) |
| IR Working Distance | 15m |
| Color to B/W Switch | ISP based switch, configurable |
| Electronic Shutter | 1/5-1/2000 second (manual mode); 1/5-1/10000 second (auto mode) |

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| Horizontal Resolution (TV Lines) | 1100 TVL |
| S/N Ratio | 75 dB |

Lens

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| Focal Length | Fixed focal, f2.55mm |
| Aperture | F2.2 |
| Iris | Fixed iris |
| Focus | Fixed focus |
| Lens Mount | Board mount |
| Horizontal Viewing Angle | 110.3° |
| Vertical Viewing Angle | 62.7° |
| Viewing Angle Adjustment | Pan: ±90°, Tilt: 35°-90°, (lens FOV from horizon up to 3.65°) |

Video

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|--------------------------------------|---|
| Compression | H.264 (Baseline/ Main/ High profile), MJPEG |
| Maximum Frame Rate vs. Resolution | 60 fps at 1920 x 1080 60 fps at 1280 x 720 30 fps at 640 x 480 30 fps at 320 x 240 |
| High Frame Mode | Support |
| Bit Rate | 128Kbps - 12Mbps |
| Bit Rate Mode | Constant, Variable |
| Multi-Streaming | Simultaneous triple streams based on configurations of video resolution, compression format, and frame rate |
| Digital Noise Reduction | 2D + 3D DNR |
| Wide Dynamic Range | Extreme WDR (145 dB) |
| Image Orientation | Rotation (Corridor mode) |
| Image Enhancement | White Balance, Brightness, Contrast, Sharpness, Automatic gain control (AGC), Flickerless, Digital Image Stabilizer (DIS, EIS), Defogging |
| Privacy Mask | 4 configurable regions |
| Text Overlay | Yes |
| On-Screen Graphics (Picture Overlay) | Yes |
| Built-in Analytics | Basic Face Detection, Object Based Motion Detection, Tampering Detection, Object Line Crossing Detection, Object Enter Area Detection, Missing Object Detection, Unattended Object Detection, Object Loitering 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) |
| IVS performance | Certain algorithms may require more computing power, which may limit the number of algorithms that can be concurrently used in the camera. Please test the actual performance before using in a project. |

Audio

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| Audio Type | 1-way, Mic-in, Line-in |
| Audio Compression | 8 kHz, 16 bit encoding, Mono, PCM, G.711 |

Network

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| Network Protocol & Service | IPv4, IPv6, TCP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SRTP, LLDP, SMTP, FTP, IGMP, ICMP, ARP, Bonjour, UPnP, QoS, SNMP, IEEE 802.1X |
| Ethernet Port | 1 x M12 pigtail connector (female, D-coding, 4-pin, PoE Type A) |
| Security | IP address filtering, HTTPS encryption, SRTP encrypted video streaming, Password protected user level, Anonymous login, IEEE 802.1X network access control, Standard IoT Security (anti-hacking, anti-malware) |

Video Analytics

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

Detection Range

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| Observation Range | Detection: 51m Observation: 20.6m Recognition: 10.2m Identification: 5.1m |
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Event

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| Event Trigger | Video motion detection (10 included and excluded polygonal regions), Sound detection, Intelligent event 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, Upload video to NVR server, Upload video or snapshot to FTP server |

System

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| System Monitor | CPU loading, memory usage and network statistics via API |
| System Log | Support |
| Watchdog | Support |

Integration

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| 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, Profile M* (To be available through future firmware upgrade) |
| GB28181 Compliant | Yes |
| Web Browser | IE 11, Google Chrome, Microsoft Edge, Apple Safari |
| Auto Firmware Upgrade | Yes |

Interface

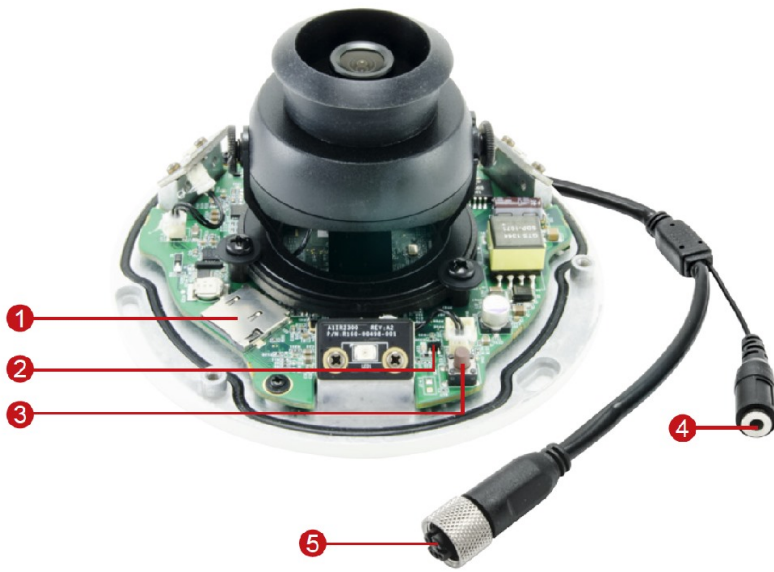
| | |
|------------------|-----------------------------|
| Audio Interface | Cable with 3.5mm Phone Jack |
| Operating Button | Reset Button |

General

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|-----------------------|--|
| Power Source | PoE Class 2 (IEEE802.3af) |
| Power Consumption | 5.04 W (PoE) |
| Weight | 482g (1.063lb) |
| Dimensions | (Ø x H): 115mm x 70mm (4.5" x 2.8") |
| Environmental Casing | Weatherproof (IP68), Vandal proof (IK10), Vibration proof (EN50155) |
| Mount Type | Surface, Gang Box, Pendant, Converter for NPT Standard Mounts, Wall Mount, Pole Mount |
| Starting Temperature | -20°C ~ 50°C (-4°F ~ 122°F) |
| Operating Temperature | -20°C ~ 50°C (-4°F ~ 122°F) |
| Operating Humidity | 10% - 85% RH, non-condensing |
| Approvals | CE Class B, FCC Class B, EAC, IP68, IK10, NEMA 4X, EN50155, UL (for optional PoE injector) |
| Real-time Clock (RTC) | Yes |
| Warranty | 3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty |

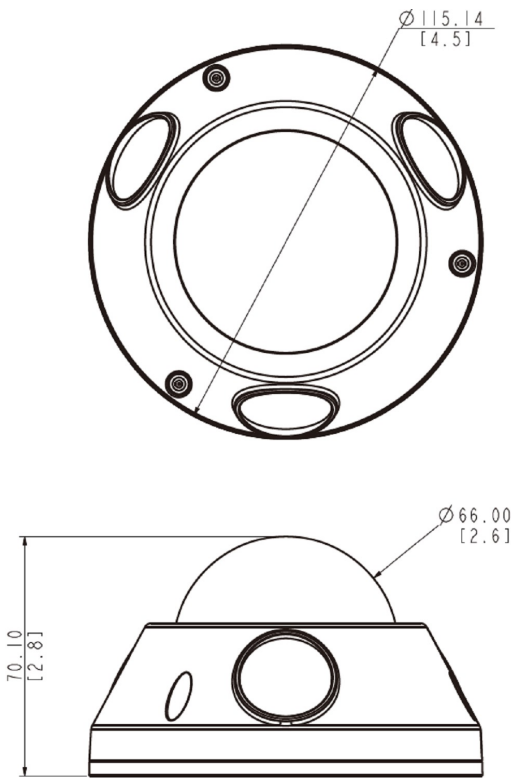
** Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

► Photo Indication



- 1 Memory Card Slot
- 2 Power LED
- 3 Reset Button
- 4 Audio Input










► Dimension Diagram



Unit: mm [inch]



► Related Products

Mounting Accessories - Camera Mount

| | | |
|-----------|---|--|
| PMAX-0111 |  | Straight Tube (for D5x, D9x, E5x, E9x, E9xx/M) |
| PMAX-0112 |  | Extension Tube (for D5x, D9x, E5x, E9x, E9xx/M) |
| PMAX-0122 |  | Straight Tube (for A71, A88, A9x,) |
| PMAX-0123 |  | Extension Tube (for A71, A88, A9x,) |
| PMAX-0316 |  | Wall Mount (for D5x, D9x, E5x, E78, E9x, E9xx/M) |
| PMAX-0506 |  | Pole Mount (for A31, A4x, E78, E9x, E9xx), supports 2" to 3" Poles |
| PMAX-0805 |  | Gang Box Converter (for D5x, D9x, E5x, E78, E9x, E9xx/M), supports 4" Round and 4" Octagon Boxes |
| PMAX-0809 |  | Converter Ring, 1.0" NPT for Third-Party Mounting Accessories |
| PMAX-1400 |  | Mount Kit (for D5x, D9x, E5x, E78, E9x, E9xx/M) |

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.




Dome Covers - Transparent Dome Cover

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|------------|---|--|
| R701-50003 |  | Dome Cover Housing with Transparent Dome Cover (for E924~E929(M), E933(M)) |
| R701-50005 |  | Transparent Dome Cover (for E924~E929(M), E933(M)) |

Dome Covers - Smoked Dome Cover

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|-----------|---|---|
| PDCX-1112 |  | Vandal Proof Smoked Dome Cover for E924(M)~E929(M), E933(M) |
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Network & Storage Peripherals - Data Switch

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|-----------|---|--|
| PPSW-0102 |  | PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W) |
| PPSW-0105 |  | PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W) |
| PPSW-1101 |  | PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W) |

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

Extenders - PoE over Coaxial Extender Kit

PPOC-0100



Planet LRP-101C-KIT Power over Coax Adapter Kit

Audio Devices - Microphone

PMIC-0100



Active Microphone Omnidirectional for all Cameras with Line-in Audio

PMIC-0200



Passive Microphone Omnidirectional for all Cameras with Mic-in Audio using 3.5mm Phone Jack

Illuminators - IR LED Illuminator

PLED-0200



SPINLUX (SL-A2IRXX10-24CL) IR Illuminator 10° Angle with 120 m approx. range

PLED-0201



SPINLUX (SL-A2IRXX25-24CL) IR Illuminator 25° Angle with 50 m approx. range