

A28

2MP Box with D/N, Extreme WDR, ELLS, Fixed Lens



- 2 Megapixel
- Day & Night with Extreme Low Light Sensitivity
- Fixed Lens with f2.8mm/F1.8
- Extreme WDR
- H.265 Compression
- Super wide angle
- Event trigger, response and notification

► Specifications

Device

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| Product Type | Box |
| Maximum Resolution | 2MP |
| Application Environment | Indoor/Outdoor |
| Image Sensor | Progressive Scan CMOS |
| Sensor Size | 1/2.8 " |
| Effective Pixels | 1945(H) X 1097(V) (2.13 MP) |
| Day / Night | Yes |
| Low Light Sensitivity | Extreme |
| Minimum Illumination | Color: 0.05 lux at F1.4; B/W 0.005 lux at F1.4 (AGC on) |
| Color to B/W Switch | ISP based switch, configurable |
| Mechanical IR Cut Filter | Yes |
| IR Sensitivity Range | 700-1150nm |
| IR LED | No |
| Electronic Shutter | 1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode) |
| Horizontal Resolution (TV Lines) | 1000 TVL |

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| S/N Ratio | 56 dB |
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Lens

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| Focal Length | Fixed focal, f2.8mm |
| Aperture | F1.8 |
| Iris | Fixed iris |
| Focus | Auto back focus |
| Lens Mount | CS Mount (interchangeable lens for DC-Iris and P-Iris) |
| Horizontal Viewing Angle | 107.7° |
| Vertical Viewing Angle | 60° |

PTZ

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| Pan, Tilt or Zoom protocol | Pelco-D, Pelco-P, ACTi URL command |
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Video

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|-----------------------------------|---|
| Compression | H.265, H.264 (Main profile), MJPEG |
| Maximum Frame Rate vs. Resolution | 60 fps at 1920 x 1080 30 fps at 1280 x 960 60 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 720 x 480 30 fps at 640 x 480 30 fps at 320 x 240 |
| High Frame Mode | Support |
| Multi-Streaming | Simultaneous triple streams based on three configurations |
| Bit Rate | 28Kbps - 12Mbps (per stream) |
| Bit Rate Mode | Constant, Variable |
| Wide Dynamic Range | Extreme WDR (142 dB) |
| Image Enhancement | White Balance, Brightness, Backlight compensation (BLC), Strong Light Suppression, Contrast, Saturation, Sharpness, Automatic gain control, Flickerless, Digital Image Stabilizer (DIS, EIS), Defogging |
| Digital Noise Reduction | 2D + 3D DNR |
| Privacy Mask | 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, 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, Rotation (Corridor mode) |

Audio

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| Audio Type | 2-way, Mic-in, Line-in, Line-out |
| Audio Compression | 8 kHz, Mono, G.711 |

Network

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| 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 Ethernet (10/100 Base-T), RJ-45 connector |
| Security | IP address filtering, HTTPS encryption, Password protected user level, Anonymous login |

Video Analytics

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| Analysis Source Type | Video |
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Event

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| 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 |

Integration

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| Unified Solution | Fully compatible with ACTi software |
| GPS Position | Manual setting |
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T, Profile Q |
| Web Browser | IE 11 |
| Auto Firmware Upgrade | Yes |

Interface

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| Serial Port | 1 x RS-485 |
| Audio Interface | 1/1, 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

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|-----------------------|---|
| Power Source | DC 12V, PoE Class 3 (IEEE802.3af) |
| Power Consumption | 12.95 W (PoE) |
| Weight | 406g (0.90lb) |
| Dimensions | (W x H x D): 58mm x 62mm x 128.49mm (2.28" x 2.44" x 5.06") |
| Environmental Casing | Optional housing (IP66-IP68) |
| Mount Type | Wall Mount, Ceiling Bracket, Corner Mount, Pole Mount |
| Starting Temperature | -10°C ~ 50°C (14°F ~ 122°F) |
| Operating Temperature | -10°C ~ 50°C (14°F ~ 122°F) |
| Operating Humidity | 10% - 90% RH |
| Approvals | CE Class B, FCC Class B |

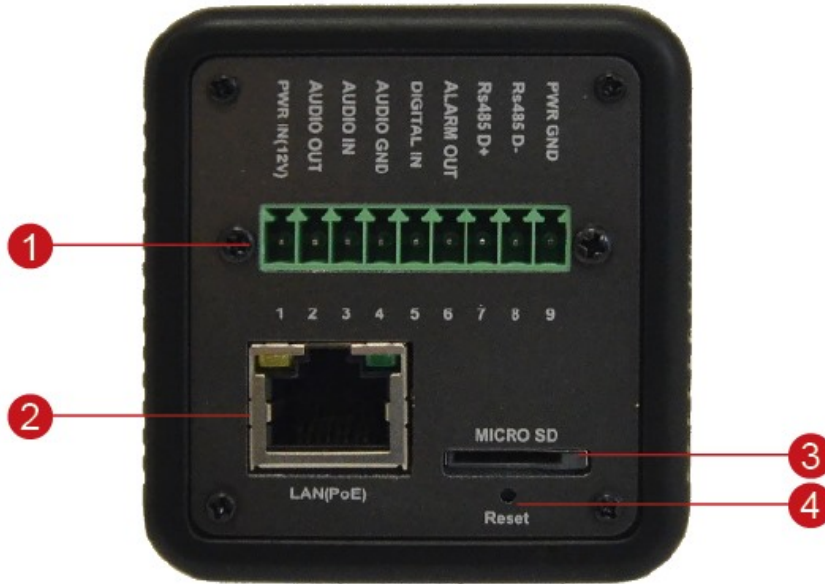
Real-time Clock (RTC)

Yes

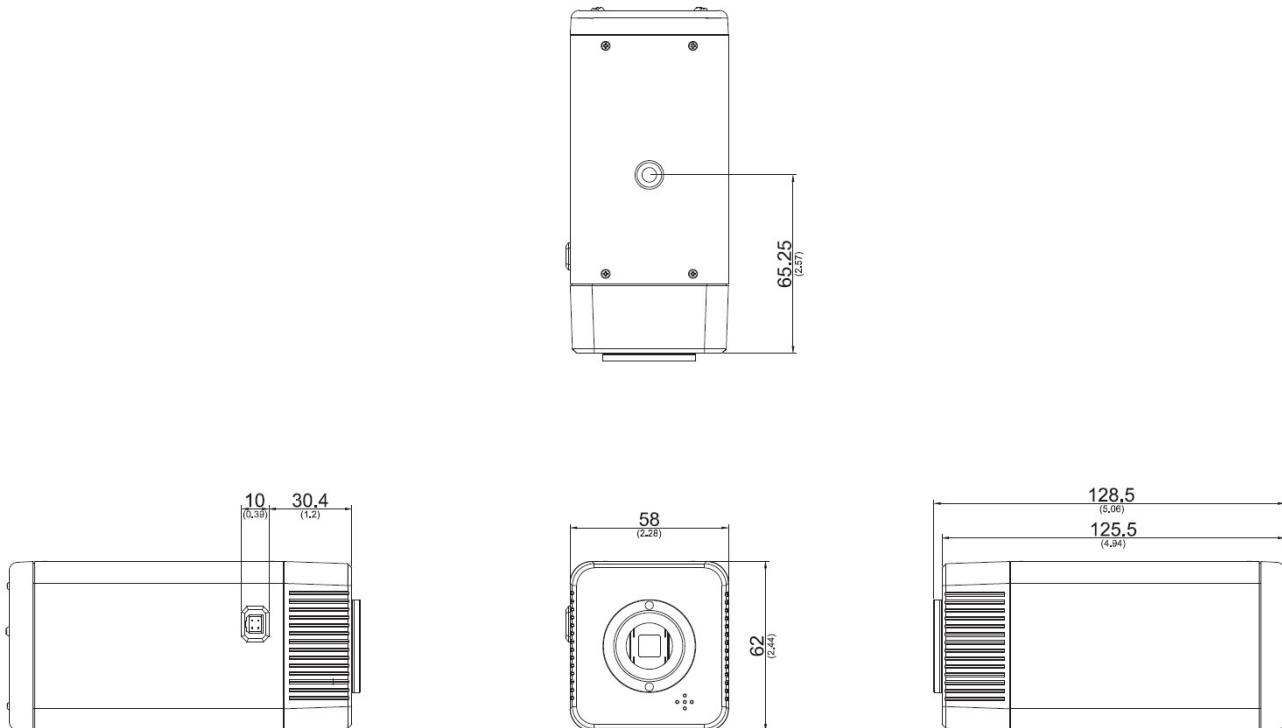
Warranty

3 Year(s). For extended warranty offering, see <http://www.acti.com/support/warranty>

► Photo Indication







► Dimension Diagram



Unit: mm [inch]



► Related Products

Mounting Accessories - Camera Mount


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| PMAX-0402 |  | Corner Mount |
| PMAX-0503 |  | Pole Mount (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" Poles |
| PMAX-1105 |  | Bracket for Indoor Box Cameras (for B2x) |
| PMAX-1106 |  | Bracket for Outdoor Box Cameras (KCM-5211E, KCM-5511, KCM-5611, Box Cameras with Outdoor Housing) |

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


Enclosures - Box Camera Housing

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| PMAX-0200 |  | Outdoor Housing with Heater and Fan (110V) |
| PMAX-0201 |  | Outdoor Housing with Heater and Fan (220V) |
| PMAX-0202 |  | Outdoor Housing |
| PMAX-0208 |  | Explosion Proof Housing with Heater, Fan (AC 110V~220V) and Bracket |
| PMAX-0210 |  | Stainless Steel Housing with Heater, Fan (AC 110V~220V) and Bracket |


Lenses - Vari-focal Lens

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| PLEN-2205 |  | Vari-focal IR-corrected f2.8-12mm, F1.4, P-Iris CS mount lens |
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Power Supply Accessories - Power Adapter

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| PPBX-0011 |  | Power Adapter AC 100~240V, with universal connectors for all DC12V powered devices |
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Power Supply Accessories - PoE Injector

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| PPOE-0002 |  | PoE Injector IEEE 802.3af compliant, AC 100~240V, with universal connectors |
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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-2101  4-Port 802.3at PoE Switch (PoE Budget 62W)


PPSW-3100  PLANET FGSW-1816HPS 16-Port 802.3at PoE Switch (PoE Budget 220W)

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

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

PLED-0202  SPINLUX (SL-A2IRXX35-24CL) IR Illuminator 35° Angle with 25 m approx. range