

TECHNICAL PARAMETERS



| ITEM | | PARAMETER VALUES | REMARKS |
|--------------------------------------|--------------------------|--|---------|
| Image Sensor | | 1/1.8" progressive scan | |
| Sensor Resolution | | SONY IMX-334 CMOS image sensor (support HDR) | |
| Lens | | Auto focus zoom lens | |
| F Number | | F 1.47~2.5±5%, DC-Iris or Fixed-Iris | |
| Focus Length | | 4.46~11mm±5% | |
| FOV | Horizontal angel of view | 110.9°(W)40.03°(T) | |
| | Vertical angel of view | 57.4°(W)22.59°(T) | |
| | Diagonal angel of view | 136.6°(W)45.98°(T) | |
| Minimum Illumination | | Color-0.05Lux@F max. 50IRE,1/30s B&W-0.01Lux@F max. 50IRE,1/30s, 0 lux with IR on | TBD |
| Shutter Time | Capture frequency 50Hz | 1/8000s ~ 1/25s | |
| | Capture frequency 60Hz | 1/8000s ~ 1/30s | |
| Day and Night Functionality (ICR) | | Auto/Color/Monochrome | |
| LED Working Distance | | 30M | 0.1uW |
| Stream Settings | Stream | Single stream / Dual streams (outbound)The 3rd stream fixed to 720p H.264 30fps for browser only | |
| | Video Encoding | H.265: enabled by customer's request, license issue) H.264 base/main/high profile MJPEG: JPEG hardware encoder function reserved for A.I application (e.g. sending face snapshots) | |
| | Resolutions | (16:9): 3840x2160, 2560x1440, 1920x1080, 1280x720,640x360(4:3): 2560x1920, 2048x1536, 1600x1200, 1280x960,1024x768, 640x480 | |
| | Rate Control | VBR(variable bit rate) / CBR (constant bit rate) | |
| | Frame Rate | 1~25 (50Hz) 1~30 (60Hz) | |
| ROI (Region on Interest) [2nd phase] | Smart Stream | Medium / Standard / Good / Detailed / Excellent | |
| | Quality (Manual ROI) | Frame A / Frame B / Frame C | |
| | Frame Size (Manual ROI) | Height, Width (Pixels)from 30x30 pixels to 300x300 pixels. | |
| Number of Clients | | 5 Concurrent | |
| SD card function | | Support | |
| White balance | | Automatic , Manual (2000K ~ 10000K) | |
| Image Adjustment | | Brightness / Contrast / Saturation / Sharpness | |
| Backlight Compensation | | On / Off | |
| HDR | | On / Off | |
| Digital Noise Reduction | | 2D NR, 3D NR | |
| Rotate View | Flip | Off, Horizontal, Vertical | |
| | Video Orientation | 0°, 90°, 180°, 270° | |
| Power Line Frequency | | Auto / 50Hz / 60Hz | |
| Exposure Control | | Exposure Mode / Exposure Time / Gain Value | |
| Smart IR | | Support | |
| Overlay | | Date and Time / Camera Name / Image /Font Size/ Font Color | |
| Privacy Mask | | Up to 8 masks can be added | |
| Lens Distortion Correction | | On / Off | |
| Audio Compression | | AAC only | |
| Audio Support | | Two way audio, full duplex function without echo cancellation | |



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| Add Audio (2nd Phase) | | Support | |
| LAN interface | | IPv4 ; IPv6(2nd Phase) ; HTTP ; HTTPS ; SSL/TLS ; QoS Layer 3 diffserv ; FTP ; SMTP ; UPnP ; DNS client ; NTP client; RTSP ; RTP ; TCP ; UDP ; IGMP ; ICMP ; DHCP ; ARP | |
| Stream Transmission | | Unicast / Multicast | |
| Security Mode | Password protection | Support | |
| | IP address filtering (2nd Phase) | | |
| | HTTPS encryption | | |
| | User access log (2nd phase) | | |
| IP Notification (2nd Phase) | | Email Notification / TCP Notification / HTTP Notification | |
| VPU | | Movidius MA2485 | |
| | Face Detection/Recognition | Support | |
| | Human Detection/Tracking | | |
| | Object Detection/Tracking | | |
| Analysis Data Transaction | | Support | Object Index #, Probability, etc |
| AI Event triggers | | Support | |
| OSD display | | Support | |
| Casing | | IK10+ IP66 (before IK10: IP67, after IK10: IP66. IK-10-- EN6226, IP66--EN60529), NEMA 4X | Bullet: front face excluded |
| Camera Angle Adjustment | | 3-Axis cable management bracket support | |
| Power Supply | | 12VDC / AC24V / PoE(IEEE 802.3at) | |
| Power Consumption | | Typ.?W , Max.?W | |
| Operation temperature | | IR ON: Operating temperature : -30°C ~ 40°C IR OFF: Operating temperature : -30°C ~ 60°C | TBD |
| Storage temperature | | 30°C ~ 60°C | |
| Operating Humidity | | 20% to 95% (non-condensing) | |
| Storage Humidity | | 20% to 90% | |
| Dimension (W*H*D) | | 84mm × 77mm X 165mm(w/o sunshield and 3-axis bracket) | |
| EMC Compliance | | 1. EN 55032 class A, EN55024 2. EN 50130-4 3. EN 50121-4 4. IEC 61000-6-1:2016 5. IEC 61000-6-2:2016 | |
| VPU | | Movidius MA2485 | |
| Target AI | Face Detection/Recognition | Support | |
| | Human Detection/Tracking | | |
| | Object Detection/Tracking | | |
| Analysis Data Transaction | | Support | |
| AI Event triggers | | Support | |
| Safety Compliance | | EN/IEC 60950-1 , EN/IEC 62368-1 | |
| REACH | | 2002/96/EC,2012/19/EU | |
| ROHS | | 2002/95/EC,2011/65/EU,EN 50581:2012 | |
| UL | | Optional by customer request(design compliance). UL needs to include EN/IEC 62471) | |
| 3rd Party Lab Certifications | | CE(including ROHS, REACH, LVD) Class A / FCC / BSMI /IP66 / IP67 / IK10, ISTA 2A Shock and Vibration | |
| Vibration /Shock | | GB/T 15211-2013(CN Environmental testing for alarm systems (surveillance)) | |
| Anti-corrosion | | GB2423.17 (IEC60068-2-11) Outdoor use: Neutral salt spray test for 10 days | |
| Packaging Transport tests | | ISTA-2A: 2011 | |
| LED indicator | | Power / Network / Firmware upgrade status | |
| Hard reset key | | Yes | |
| Power Input | | 2 pin terminal block (at output cable) | |
| Ground Wire | | Support (at output cable) | |
| Ethernet interface | | 1x 10/100/1000 Base-T self-adaptive Ethernet port, RJ-45 female (at output cable), with male mating connector set | |
| Audio interface | Line in/Mic. In | Bare wire (at output cable) | |
| | Line out | Bare wire (at output cable) | |
| Memory card slot | | 1x Micro-SD ; SD / SDHC /SDXC UHS-I, 32GB to 256GB, class 10 or higher is recommended | |
| Alarm Input/Output | | 1 Input (Dry Contact, bare wire), 1 Relay Output (bare wire), at output cable | |

