4K Day & Night Fixed Smart Dual Light Bullet IP Camera

# V1W9182A

www.meritlilin.com

8MP
8MP

AI
AI

140db HDR

30m LED

Waterproof

Vandalproof

| AI Spec | |
|---|---|
| **Recognized objects** | Support detection of the following types of human postures: standing, running, squatting, moving forward, crawling, climbing, hatted, under umbrella, etc |
| | Support the following types of vehicle recognition: bicycle, car, motorbike, bus, truck |
| **Results Display** | Support conditional display results according to specified objects |
| **Behavior Detection** | **Prohibited Zone** : Support triggering an event when specified object(s) enters restricted area |
| | **Zone with Dwell** : Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time |
| | **Tripwire / Traffic Flow**: Support triggering an event when specified object(s) crosses the designed line in a predefined direction |
| | **AI Missing Object Detection** : Support triggering an event when specified object(s) has been missing from the set detection zone for a predefined duration of time |
| | **All Object Detection (AND)**: Support triggering an event when all of the specified objects show up within the set detection zone at the same time (based on AND rule) |
| | **Lack of any Object Detection (NAND)**: Support triggering an event when any of the specified objects is not present within the set detection zone (based on NAND rule) |
| **Recognition Speed** | Support object recognition speed up to 4 frames per second |
| **Number of Detectable Objects** | Can detect up to 18 objects per frame |
| **Video Resolution** | Support up to 5M (2880 x 1612) resolution for image capture, 720P resolution is used for recognition |
| **Object Filtering** | **Object Type:** Support recognizing specified object, instead of processing all types of objects.<br>**Object Size:** Support 0~100% adjustable size of object (compared to frame) for classification<br>**Object Confidence Level:** Support 0~100% adjustable confidence level of object |
| **Event Trigger** | Support setting trigger by specific behaviors of specified objects<br>Support setting 8 Cold Zones to minimize false alarms and improve the accuracy |
| **Detection Time** | After an event is triggered by specified object, the next detection will be carried out according to the set detection time (2~30 seconds) |
| **Minimum Recognition Resolution** | Support vehicle recognition at 80X80 pixels, person recognition at 80X100 pixels, and motorcycle/bicycle recognition at 80X100 pixels |
| **Detection Zone / Line** | Support setting 4 detection zones (about the size of camera FoV) or lines which are influenced by independent filter condition (object size, confidence, dwell, classification and behavior) and to trigger independent events (output) |
| **Polygon Detection** | Support detection zone which is a polygon that can be freely dragged and that the shape can be modified by 6 draggable anchor points<br>Support detection line which is a line attached to a polygon that the shape can be modified by 4 draggable anchor points. Also, direction of the line can be set by dragging the 4 anchor points or clicking the "Enable direction button" |
| **Pixel Count** | Support displaying the pixel count of selected object(s) on the web UI |
| **Alarm Output** | Digital Output: Support triggering digital output of camera<br>Smart Event: Support triggering up to 4 virtual inputs of camera<br>HTTP POST: Support displaying an alarm on LILIN IP LED Panel / Support displaying an alarm on specific channel of LILIN Navigator VMS / Support triggering digital outputs for LILIN I/O Box / Support triggering digital outputs for LILIN NVR / Support triggering HTTP POST to integrate with third-party devices / Support triggering a PTZ camera to go to a preset |
| **Heartbeat Checking** | Support checking the camera AI operation status and pushing notifications every 1~30 minutes |
| **Recording System Integration** | Support event search to playback or snapshot on LILIN Navigator VMS and NVR |

# Technical Specifications

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| Video Performance | |
|---|---|
| Min. Illumination | Color : 0.08 Lux at F1.0 ; B/W : 0.02 Lux at F1.0 ; 0 Lux with IR LED ON |
| **Lens / Night Vision (Infrared LED)** | |
| Focal Length | 3.6mm |
| Iris | F1.0 |
| Angle of View | 85° (H) , 46° (V) , 99.8° (D) |
| Iris Control | Fixed IRIS |
| Peak Wavelength | IR : 850nm, Warm Light : 3000K |
| Beam Spread | 60° , 90° |
| Radiant Distance | IR : 30M, Warm Light : 25M |
| **Sensor** | |
| Pick Up Element | 1/2.8" CMOS image sensor |
| Effective Pixels | 3864 (H) × 2176 (V) = 8,408,064 (Pixels) |
| Light Sensor | Yes |
| **Certifications** | |
| CE | Yes, EMI Class A |
| FCC | Yes, EMI Class A |
| UKCA | Yes, EMI Class A |
| IP Rating | IP67 |
| Vandal Resistant Rating | IK10 (Casing) |
| **PC Requirements** | |
| CPU | Intel® Core™ i7 or higher grade |
| OS | Windows 7 or above |
| RAM | 8GB or above, Dedicated Graphics Card |
| Web Browser | Microsoft® Internet Explorer® 9 or above, Microsoft® Edge (IE mode) |
| **Input / Output** | |
| Audio | One-way Audio, G.711 u-law / AAC, Built-in Microphone |
| **Video Streaming** | |
| Video Compression | H.265/HEVC main profile, H.264 main and high profile , Motion JPEG |
| Video Streaming | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast streams in H.265 and H.264 and Motion JPEG, configurable frame rate and bandwidth |
| Number of Streams | 3 |
| Video Bitrate | 128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported, Fixed bitrate |
| **Network Security** | |
| Encryption | Base64 HTTP encryption, HTTPS encryption |
| Authentication | Digest HTTP authentication, RTSP authentication, DDNS via HTTPS |
| Address Filter | Yes |
| Access | Multiple user access levels with password protection |
| User accounts | 10 user accounts available |
| Multi IP Address | Yes |
| **Video Resolutions (H x V)** | |
| Resolution | 4K(3840 × 2160), 6M(3072 × 2048), 5MP(2592 × 1944), 4MP(2304 × 1728), 3.1MP(2048 × 1536), 3MP(2304 × 1296), 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240) |
| Maximum Frame Rate | Normal mode:<br>60Hz: 30 FPS @ 3840 × 2160<br>50Hz: 25 FPS @ 3840 × 2160<br>HDR mode:<br>60Hz: 20 FPS @ 3840 × 2160<br>50Hz: 20 FPS @ 3840 × 2160 |
| **Video Functions** | |
| Scanning System | Progressive Scan |
| Infrared Cut Filter | Auto / Day (Color) / Night (Mono) / Schedule |
| White Balance | Auto / Manual |
| Electrical Shutter | 1/30(1/25)s – 1/20000s |
| Sense Up | Off / x2 / x4 / x8 / x16 |
| Sense Up+ | Yes |
| Auto Gain Control | 48 dB Variable Gain |
| S/N Ratio | More than 50dB (AGC off) |
| 3D Noise Reduction | Off / 1 – 32 Selectable |
| 2D WDR | Off / Auto / x2 / x3 / x4 |
| High Dynamic Range | Up to 140dB (by HDR mode, 2 shutter line interleave) |
| Privacy Masking | Off / On (4 zones) |
| Image Effects | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Rotation, Defog |
| EV (Exposure Value) | Adjustable |
| **Integration** | |
| Mobile Application | Integrated to LILIN mobile app (LILIN Pro) iPhone, iPad, Android support |
| Video Management | ONVIF Profile S / ONVIF Profile T / ONVIF Profile G / IVS events, LILIN Navigator Enterprise 5.0 support, Third party VMS through LILIN HTTP API |
| SD Card Recording | Support (128GB) Micro SD/SDHC/SDXC card for circular recording (card is not included) |
| Maintenance | Firmware update via HTTP and IP Scan; Firmware available at website |
| Event Triggers | Motion / Tamper / Audio / Network lost detection / Global Counter / Virtual Input / Metadata |
| Event actions | FTP / SMTP / HTTP post / SD card / SAMBA / Push Service / Global Counter / Virtual Input / IR LED |
| Languages | English, Traditional Chinese, Simplified Chinese, Russian, Italian, Hungarian, Korean, French, Turkish, Arabic, Spanish, Japanese |
| **Network** | |
| Ethernet | 10BASE-T/100BASE-TX, RJ-45 |
| OSD | Position configurable text overlay for date, time, camera ID, event status |
| CPU, Memory | Embedded Dual-core ARM Cortex-A9 1.2GHz CPU & (DDR 1024MB/Flash 512MB) |
| OS | Embedded Linux 4.14 |
| Network Protocols | IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, SMTP, Multicast, ONVIF Profile S, ONVIF Profile T,ONVIF Profile G |
| Max number of online users | 10 simultaneous users |
| Video Display | LILIN Universal ActiveX & HTML5 |
| Log | Event & operation log & IVS event log |
| Schedule | Support holiday list |
| Network Storage | NAS (Support SAMBA/CIFS) |
| **Power and Environment** | |
| Starting Temperature | -10° C – +50° C (-14° F – 122° F) |
| Operating Temperature | -30° C – +50° C (-22° F – 122° F) |
| Storage Temperature | -25° C – +60° C (-13° F – 140° F) |
| Humidity | 0% – 90% RH |
| Power Supply | DC12V ±10% / PoE (IEEE 802.3af compliant) |
| Power Consumption | DC12V, 10.5W / PoE, 12W |
| **Mechanical** | |
| Dimension | 75(W) × 75(H) × 152(D) mm |
| Weight | 355g |
| Casing Material | Aluminum alloy |
| **Warranty** | |
| Warranty | 2 Year(s) |

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