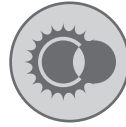


# V1R9452E4

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5MP



35m LED



AI



Waterproof



120db HDR



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<br>Support the following types of vehicle recognition: bicycle, car, motorbike, bus, truck  |
| Results Display                | Support conditional display results according to specified objects  |
| Behavior Detection             | <b>Prohibited Zone</b> : Support triggering an event when specified object(s) enters restricted area  |
|                                | <b>Zone with Dwell</b> : Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time  |
|                                | <b>Tripwire / Traffic Flow</b> : Support triggering an event when specified object(s) crosses the designed line in a predefined direction   |
|                                | <b>AI Missing Object Detection</b> : Support triggering an event when specified object(s) has been missing from the set detection zone for a predefined duration of time  |
|                                | <b>All Object Detection (AND)</b> : 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)  |
|                                | <b>Lack of any Object Detection (NAND)</b> : 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               | <b>Object Type</b> : Support recognizing specified object, instead of processing all types of objects.<br><b>Object Size</b> : Support 0~100% adjustable size of object (compared to frame) for classification<br><b>Object Confidence Level</b> : 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 recognition of specified object with more than 200 x 200 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   |

| Video Performance                  |  |
|------------------------------------|--|
| Min. Illumination                  | Color: 0.16 Lux at F2.2 ; B/W: 0.02 Lux at F2.2 ; 0 Lux with IR LED ON   |
| Lens / Night Vision (Infrared LED) |  |
| Focal Length                       | 4mm  |
| Iris                               | F2.2   |
| Iris Control                       | Fixed IRIS   |
| Angle of View                      | 83.4 (H) , 44.7 (V) , 101.2 (D)  |
| Peak Wavelength                    | 850nm  |
| Radiant Distance                   | 35M  |
| Sensor                             |  |
| Pick Up Element                    | 1/2.7" CMOS image sensor   |
| Effective Pixels                   | 2880 (H) × 1620(V) = 4,665,600 (Pixels)  |
| Light Sensor                       | Yes  |
| Certifications                     |  |
| CE / FCC / UKCA                    | Yes, EMI Class A   |
| BSMI / RCM                         |  |
| 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)  |
| 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                   |  |
| 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                         | 5MP(2880 x 1616), 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 @ 2880 x 1616<br>50Hz: 25 FPS @ 2880 x 1616<br>HDR mode:<br>60Hz: 30 FPS @ 2880 x 1616<br>50Hz: 25 FPS @ 2880 x 1616  |
| 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 – 1/30000s   |
| 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 120dB (by HDR mode, 2 shutter line interleave)  |
| Privacy Masking            | Off / On (4 zones)  |
| Image Effects              | Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip, Rotation, Defog   |
| Auto Focus                 | Support   |
| 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 / Network lost detection / Global Counter / Virtual Input / Metadata  |
| Event actions              | FTP / SMTP / HTTP post / SD card / SAMBA / Push Service / Global Counter / Virtual Input  |
| 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 Single core ARM Cortex-A9 960MHz CPU & (DDR 512MB / Flash 128MB)   |
| OS                         | Embedded Linux 4.19   |
| 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               | PoE (IEEE 802.3af compliant)  |
| Power Consumption          | POE, 6.9W   |
| Mechanical                 |   |
| Dimension                  | 70(W) x 70(H) x 193(D) mm   |
| Weight                     | 370g  |
| Casing Material            | Aluminum alloy  |
| Warranty                   |   |
| Warranty                   | 2 Year(s)   |