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## 1080P Day & Night Auto Focus IR Vandal Resistant Dome IP Camera



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### Features

- Full HD 2 megapixel CMOS image sensor
- 1080P True H.264 AVC High Profile video compression
- H.264 and Motion JPEG multi-profile video streaming
- Auto focus with zoom / focus motorized lens
- 3D noise reduction (MCTF)
- 2D WDR function HDR function up to 100dB
- Digital PTZ supported
- IVS supported
- Motion detection, Tampering detection, audio detection, tripwire, object counting, traffic light detection function
- Smart event support
- High efficiency IR LED, radiant distance up to 35M
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S supported
- 3-Axis construction
- Impact Resistant Polycarbonate Dome Cover
- IP68 rain and dust resistant

## Specifications

|                                           |                                                                                                                                                                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                     | ZFR6422EX3                                                                                                                                                                                                                                                             |
| Pick Up Element                           | 1/2.86" MOS image sensor                                                                                                                                                                                                                                               |
| Effective pixels                          | 1944 (H) × 1213 (V) = 2,358,072 (pixels)                                                                                                                                                                                                                               |
| Video Compression                         | H.264 main and high profile, Motion JPEG                                                                                                                                                                                                                               |
| Resolution                                | 2MP(1920 × 1080), 1.3MP(1280 × 960), 1MP(1280 × 720), D1(720 × 480, 720 × 576), VGA(640 × 480), CIF(352 × 240)                                                                                                                                                         |
| Frame Rates                               | Single-stream mode, H.264 : up to 120 fps @ 1920 × 1080 ( Video only support preview mode) Multi-stream mode, H.264 : up to 60 fps @ 1920 × 1080, MJPEG : up to 30 fps @ 1920 × 1080 HDR mode, H.264 : up to 30 fps @ 1920 × 1080 , MJPEG : up to 30 fps @ 1920 × 1080 |
| Lens                                      | 2.8 – 12 mm (zoom / focus motorized)                                                                                                                                                                                                                                   |
| Iris                                      | F1.4(W) – F2.8(T)                                                                                                                                                                                                                                                      |
| Angle of View                             | 90° (W) – 36° (T)                                                                                                                                                                                                                                                      |
| Auto Focus                                | One Push                                                                                                                                                                                                                                                               |
| Max IR distance                           | 30M                                                                                                                                                                                                                                                                    |
| Infrared LED Angle                        | 60°, 90°                                                                                                                                                                                                                                                               |
| Min. illumination/Low Light Mode (Colour) | Color : 0.05 Lux at F1.4 ; B/W : 0.004 Lux at F1.4 ; 0 Lux with IR LED ON                                                                                                                                                                                              |
| Video streaming                           | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast 4 configurable streams in H.264 and Motion JPEG, configurable frame rate, bandwidth Codec and GOP                                                                                                                                |
| Video bitrate                             | 128Kbps – 12Mbps; Frame rate and bit rate controllable on-the-fly; VBR / CBR / GOP supported; Fixed bitrate                                                                                                                                                            |
| Scanning System                           | Progressive Scan                                                                                                                                                                                                                                                       |
| Infrared Cut Filter                       | Auto / Day (Color) / Night (Mono) / Schedule                                                                                                                                                                                                                           |

|                               |                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Peak wavelength               | 850nm                                                                                                                                   |
| White Balance                 | Auto / Tungsten / Indoor / Fluorescents1 /<br>Fluorescents2 / Outdoor1 / Custom                                                         |
| 3D Noise Reduction            | Off / 1 – 32 Selectable                                                                                                                 |
| 2D WDR                        | Off / Auto / x2 / x3 / x4 (by normal mode)                                                                                              |
| High Dynamic Range(HDR)       | Up to 120dB (by HDR mode, 2 shutter line interleave)                                                                                    |
| Back Light Compensation (BLC) | On/Off                                                                                                                                  |
| Privacy Masking               | Off / On (4 zones)                                                                                                                      |
| Sense Up                      | Off / 1 Frame / 2 Frames                                                                                                                |
| Sense Up+                     | Yes                                                                                                                                     |
| Auto Gain Control             | 60 dB Variable Gain                                                                                                                     |
| Electrical Shutter            | 1/30(1/25)s – 1/30000s                                                                                                                  |
| Audio Input / Output          | Mono, 1.98 Vp-p , 2.2KΩ , Terminal Block                                                                                                |
| Live Video Output             | CVBS 1.0Vp-p, 75 ohm, RCA connector                                                                                                     |
| Video Management              | ONVIF Profile S, LILIN Navigator Enterprise 2.0, Third<br>party VMS through LILIN HTTP API                                              |
| Video Display                 | LILIN Universal ActiveX & HTML5                                                                                                         |
| OSD (On-Screen Display)       | Text overlay for date, time, and camera name                                                                                            |
| Protocols                     | IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, SIP, MQTT,<br>QoS, SNMP, SNMP Trap, NTP, DDNS, UPnP, FTP, ARP,<br>DHCP, PPPoE, DNS, RTSP, RTCP |
| Alarm Input / output          | Digital 1 input (TTL, +3 – 5VDC) / 1 Output (MOS Relay<br>contact N.O., Load max. 40VDC/300mA)                                          |
| Access                        | Multiple user access levels with password protection                                                                                    |
| Max number of online users    | 10 simultaneous users                                                                                                                   |
| Encryption                    | Base64 HTTP encryption, HTTPS encryption                                                                                                |
| OS                            | Linux 3.8.8                                                                                                                             |
| CE                            | Yes, EMI CLASS A                                                                                                                        |
| FCC                           | Yes, EMI CLASS A                                                                                                                        |
| PoE                           | PoE                                                                                                                                     |
| Power Consumption             | DC12V, 9.4W / PoE, 11.0W                                                                                                                |

|                                      |                                                                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Power Supply                         | DC12V ±10% / PoE (IEEE 802.3af compliant)                                                                                         |
| Firmware                             | Firmware update via HTTP and IP Scan; Firmware available at web site                                                              |
| Network Interface/Ethernet           | 10/100/1000 Mbps Base-T (Tx), RJ-45                                                                                               |
| IP Rating                            | IP67                                                                                                                              |
| Vandal Resistant Rating / IK Rating  | IK10                                                                                                                              |
| ePTZ & Digital Zoom                  | Yes, ROI (Region of Interest)                                                                                                     |
| CPU requirement                      | Intel® Core™ i5 or higher grade                                                                                                   |
| OS requirement                       | Windows 7 or above                                                                                                                |
| RAM requirement                      | 8GB or above, Dedicated Graphics Card                                                                                             |
| Web browser                          | Microsoft® Internet Explorer® 9 or above                                                                                          |
| User accounts                        | 10 simultaneous users                                                                                                             |
| Alarm event actions                  | FTP / SMTP / HTTP post / SD card / SAMBA / SMTP Trap / Alarm Output                                                               |
| Alarm event triggers                 | Motion / Tamper / Audio / Alarm / Network lost detection                                                                          |
| SD Card (recording)                  | Support Micro SD/SDHC/SDXC card for circular recording (card is not included)                                                     |
| CPU                                  | Embedded SoC, 1.0GHz Dual ARM Cortex-A9 & 600MHz ARM11, 1GB DDR3, 256MB flash memory                                              |
| IVS (Intelligent Video Surveillance) | Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting    |
| Smart IR                             | Off / On                                                                                                                          |
| Multi IP address                     | Yes                                                                                                                               |
| IP address filter                    | IP address filter, MAC address filter                                                                                             |
| Mobile phone                         | Integrated to LILIN mobile app (LILIN Viewer) iPhone, iPad, Android support                                                       |
| Languages                            | English, Traditional Chinese, Simplified Chinese, Spanish, Italian, Turkish, Russian, Korean, French, Arabic, Hungarian, Japanese |

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|-----------------------|-------------------------------|
| Operating temperature | -40°C – +50°C (-40°F – 122°F) |
| Dimensions            | Ø120 × 106 mm                 |
| Weight                | 760g approx                   |
| S / N Ratio           | More than 50dB (AGC off)      |

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