

# Z6W9582X3

## 4K Day & Night Auto Focus Smart Dual Light Bullet IP Camera

**Z6W**  
SERIES

The LILIN Z6W series cameras are equipped with a high-resolution 8-megapixel CMOS sensor, combining 3D digital noise reduction (MCTF) and 2D WDR technology to ensure clear visibility in various lighting conditions. They support day and night functionality and feature a zoom lens for flexible adjustments to the surveillance range.

The Z6W series also includes digital PTZ (Pan, Tilt, Zoom) and ROI (Region of Interest) capabilities, supporting intelligent video surveillance (IVS) functions and customizable smart events to meet different needs. Compatible with ONVIF Profile S, T, and G standards, the cameras are designed with waterproof and vandal-resistant construction.

Additionally, the Z6W series is equipped with a dual-light source system, including white light LEDs and infrared, providing more flexibility and realistic imaging. The white light LEDs can record full-color images in dark scenes and emit warning signals, while the infrared provides black-and-white images in low-light environments. Both modes can intelligently switch to adapt to varying lighting requirements, enhancing the practicality and reliability of the equipment.



- Ultra HD 8M megapixel CMOS image sensor
- 8MP H.265/HEVC and H.264/AVC high-performance video compression
- Simultaneous streaming of H.265 and H.264 encoded streams
- Auto focus with zoom / focus motorized lens
- 3D noise reduction (MCTF)
- 2D WDR function
- HDR function up to 140dB
- IVS / AI supported
- Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
- SMART event
- High efficiency IR LED, radiant distance up to 50m, WarmLight viewable length up to 40m
- Day & Night (IR cut removable)
- 2-way audio supported
- Digital I/O : 1 in, 1 out
- ONVIF Profile S , T , G , M supported
- IP67 rain and dust resistant
- Vandal resistant approve IK10



| Video Performance                  |                                                                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Min. Illumination                  | Color: 0.01 Lux at F1.35 ;<br>B/W: 0.005 Lux at F1.35 ; 0 Lux with Light LED ON                                                                                                                                                           |
| Lens / Night Vision (Infrared LED) |                                                                                                                                                                                                                                           |
| Focal Length                       | 2.8 – 12 mm (zoom / focus motorized)                                                                                                                                                                                                      |
| Iris                               | F1.4 (W) – F2.2 (T)                                                                                                                                                                                                                       |
| Iris Control                       | Fixed IRIS                                                                                                                                                                                                                                |
| Angle of View                      | 109.8° (W) – 46.2° (T) (H) , 57.2° (W) – 25.9° (T) (V) ,<br>126.3° (W) – 53° (T) (D)                                                                                                                                                      |
| Peak Wavelength                    | IR : 850nm, Warm Light : 3000K                                                                                                                                                                                                            |
| Beam Spread                        | 60° , 90°                                                                                                                                                                                                                                 |
| Radiant Distance                   | IR : 50M, Warm Light : 40M                                                                                                                                                                                                                |
| Sensor                             |                                                                                                                                                                                                                                           |
| Pick Up Element                    | 1/1.8" CMOS image sensor                                                                                                                                                                                                                  |
| Effective Pixels                   | 3856 (H) × 2176(V) = 8,390,656 (Pixels)                                                                                                                                                                                                   |
| Light Sensor                       | Yes                                                                                                                                                                                                                                       |
| Certifications                     |                                                                                                                                                                                                                                           |
| CE / FCC / UKCA / RCM              | 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,<br>Microsoft® Edge                                                                                                                                                                              |
| Input / Output                     |                                                                                                                                                                                                                                           |
| Audio Input / Output               | Audio 1 input /<br>1 output, Mono, 1.98 Vp-p, 2.2KΩ, Terminal Block                                                                                                                                                                       |
| Audio                              | Two-way Audio, G.711 u-law / PCM /<br>AAC, External Microphone Required                                                                                                                                                                   |
| Alarm Input / Output               | Digital 1 input (TTL, +3 – 5VDC) / 1 Output<br>(MOS Relay contact N.O., Load.max. 40VDC, 450mW<br>/ 300mA, 450mW) , Terminal Block                                                                                                        |
| Video Streaming                    |                                                                                                                                                                                                                                           |
| Video Compression                  | H.265/HEVC main profile, H.264 main and high profile<br>, Motion JPEG                                                                                                                                                                     |
| Video Streaming                    | RTP/HTTP, RTP/TCP, RTP/UDP, Multicast streams in<br>H.265 and H.264 and Motion JPEG, configurable<br>frame rate and bandwidth                                                                                                             |
| Number of Streams                  | 3                                                                                                                                                                                                                                         |
| Video Bitrate                      | 128Kbps – 12Mbps; Frame rate and bit rate<br>controllable on-the-fly; VBR / CBR / GOP supported,<br>Fixed bitrate                                                                                                                         |
| Network Security                   |                                                                                                                                                                                                                                           |
| Encryption                         | Base64 HTTP encryption, HTTPS encryption                                                                                                                                                                                                  |
| Authentication                     | Digest HTTP authentication, RTSP authentication,<br>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),<br>5MP(2592 × 1944), 4MP(2304 × 1728),<br>3.1MP(2048 × 1536), 3MP(2304 × 1296),<br>2MP(1920 × 1080), 1.3MP(1280 × 960),<br>1MP(1280 × 720), D1(720 × 480, 720 × 576),<br>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 – 1/30000s                                                                                                                                                                                    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sense Up                   | Off / x2 / x4 / x8 / x16                                                                                                                                                                                  |
| Sense Up+                  | Yes                                                                                                                                                                                                       |
| Auto Gain Control          | 60 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,<br>Mirror, Flip, Rotation, Defog                                                                                                                        |
| Auto Focus                 | Support                                                                                                                                                                                                   |
| Smart IR                   | Yes                                                                                                                                                                                                       |
| EV (Exposure Value)        | Adjustable                                                                                                                                                                                                |
| Integration                |                                                                                                                                                                                                           |
| Mobile Application         | Integrated to LILIN mobile app (LILIN Pro)<br>iPhone, iPad, Android support                                                                                                                               |
| Video Management           | ONVIF Profile S / ONVIF Profile T / ONVIF Profile<br>G / ONVIF Profile M / IVS events, LILIN Navigator<br>Enterprise 5.0 support, Third party VMS through LILIN<br>HTTP API                               |
| SD Card Recording          | Support (128GB) Micro SD/SDHC/SDXC card for<br>circular recording (card is not included)                                                                                                                  |
| SD Card Compatible List    | Micron - 32GB,64GB,128GB,256GB,512GB, 1TB<br>(SDXC, U1, C10)<br>Transcend - 4GB SD,8GB SDHC,32GB SDHC<br>C10,128GB SDXC C10<br>SanDisk - 8GB SDHC, 32GB, 64GB, 128GB SDHC C10<br>Kingston - 64GB SDXC C10 |
| Maintenance                | Firmware update via HTTP and IP Scan;<br>Firmware available at website                                                                                                                                    |
| IVS Basic 1.0              | Motion / Tamper                                                                                                                                                                                           |
| Event Triggers             | Motion / Tamper / Audio / Alarm /<br>Network lost detection / Global Counter /<br>Virtual Input / Metadata                                                                                                |
| Event actions              | FTP / SMTP / HTTP post / SD card / SAMBA /<br>Alarm Output / Push Service / Global Counter /<br>Virtual Input                                                                                             |
| Languages                  | English, Traditional Chinese, Simplified Chinese,<br>Russian, Italian, Hungarian, Korean, French, Turkish,<br>Arabic, Spanish, Japanese                                                                   |
| Network                    |                                                                                                                                                                                                           |
| Ethernet                   | 10BASE-T/100BASE-TX, RJ-45                                                                                                                                                                                |
| OSD                        | Position configurable text overlay for date, time,<br>camera ID, event status                                                                                                                             |
| CPU, Memory                | Embedded Dual-core ARM Cortex-A9 1.2GHz CPU &<br>(DDR 1024MB/Flash 512MB)                                                                                                                                 |
| OS                         | Embedded Linux 4.19                                                                                                                                                                                       |
| Network Protocols          | IPv4, TCP, UDP, HTTP, HTTPS, QoS, NTP, DDNS, FTP,<br>ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP,<br>IGMP, SMTP, Multicast, ONVIF Profile S,<br>ONVIF Profile T, ONVIF Profile G, ONVIF Profile M     |
| 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, 8.7W / PoE, 10.1W                                                                                                                                                                                  |
| Mechanical                 |                                                                                                                                                                                                           |
| Dimension                  | 100(W) x 85(H) x 284(D) mm                                                                                                                                                                                |
| Weight                     | 1000g                                                                                                                                                                                                     |
| Casing Material            | Aluminum alloy                                                                                                                                                                                            |
| Warranty                   |                                                                                                                                                                                                           |
| Warranty                   | 3 Year(s)                                                                                                                                                                                                 |

## Bracket



### BCR05W-V1

Wall-mount

## Bracket



### BCR06W-V1

Wall-mount