

# KX-DWai2328ZPN

## 2MP 32x Starlight IR Network PTZ Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- 1/2.8" 2Megapixel STARVIS™ CMOS.
- 32x optical zoom.
- Starlight technology.
- Max. 25/30fps@1080P.
- IR distance up to 150 m.
- Auto-tracking 3.0.
- Perimeter protection.
- Face detection.
- SMD 4.0.
- Quick Pick.
- IP67, IK10.



| Camera                     |  |                    |                    |                   |
|----------------------------|--|--------------------|--------------------|-------------------|
| Image Sensor               | 1/2.8" CMOS  |                    |                    |                   |
| Pixel                      | 2 MP   |                    |                    |                   |
| Max. Resolution            | 1920 (H) × 1080 (V)  |                    |                    |                   |
| ROM                        | 4 GB   |                    |                    |                   |
| RAM                        | 1 GB   |                    |                    |                   |
| Electronic Shutter Speed   | 1/1 s–1/30,000 s   |                    |                    |                   |
| Scanning System            | Progressive  |                    |                    |                   |
| Min. Illumination          | Color: 0.005 lux@F1.3<br>B/W: 0.0005 lux@F1.3<br>0 lux (IR light on) |                    |                    |                   |
| Illumination Distance      | 150 m (492.13 ft)  |                    |                    |                   |
| Illuminator On/Off Control | Zoom Prio; Manual; Smart IR; Off                                     |                    |                    |                   |
| Illuminator Number         | 4 (IR)   |                    |                    |                   |
| Lens                       |  |                    |                    |                   |
| Focal Length               | 4.5 mm–144 mm  |                    |                    |                   |
| Max. Aperture              | F1.5–F4.0  |                    |                    |                   |
| Field of View              | H: 58.4°–3.0°; V: 33.4°–1.7°; D: 66.4°–3.4°                          |                    |                    |                   |
| Optical Zoom               | 32x  |                    |                    |                   |
| Focus Control              | Auto; semi-auto; manual  |                    |                    |                   |
| Close Focus Distance       | 0.1 m–1.5 m (0.33 ft–4.92 ft)  |                    |                    |                   |
| Iris Control               | Auto; manual   |                    |                    |                   |
| DORI Distance              | Detect   | Observe            | Recognize          | Identify          |
|                            | 1986 m (6515.75 ft)  | 785 m (2575.46 ft) | 398 m (1305.77 ft) | 198 m (649.61 ft) |
| PTZ                        |  |                    |                    |                   |
| Pan/Tilt Range             | Pan: 0° to 360° endless<br>Tilt: –15° to +90°, auto flip 180°        |                    |                    |                   |

| Manual Control Speed       | Pan: 0.1°/s–300°/s<br>Tilt: 0.1°/s–200°/s   |
|----------------------------|---|
| Preset Speed               | Pan: 400°/s; Tilt: 300°/s   |
| Preset                     | 300   |
| Tour                       | 8 (up to 32 presets per tour)   |
| Pattern                    | 5   |
| Scan                       | 5   |
| Power-off Memory           | Yes   |
| Idle Motion                | Pattern; Preset; Scan; Tour   |
| PTZ Protocol               | DH-SD<br>Pelco-P/D(Auto recognition)  |
| Intelligence               |   |
| IVS (Perimeter Protection) | Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking   |
| Face Detection             | Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, scary, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first. |
| Auto Tracking              | Yes   |
| SMD                        | Yes   |
| Quick Pick                 | Yes   |
| Video                      |   |
| Video Compression          | H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream 1); Smart H.264+   |
| Streaming Capability       | 3 streams   |
| Resolution                 | 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576); VGA (640 × 480); CIF (352 × 288)   |

# KX-DWai2328ZPN

## 2MP 32x Starlight IR Network PTZ Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

|                          |  |
|--------------------------|--|
| Video Frame Rate         | Main stream: 1080p/1.3M/720p@ (1–25/30 fps)<br>Sub stream 1: D1/VGA/CIF@ (1–25/30 fps)<br>Sub stream 2: 720p@ (1–25/30 fps)                                      |
| Bit Rate Control         | CBR/VBR  |
| Video Bit Rate           | H264: 64 kbps–10496 kbps<br>H265: 25 kbps–6400 kbps  |
| Day/Night                | Auto (ICR)/Color/B/W   |
| BLC                      | Yes  |
| WDR                      | 120 dB   |
| HLC                      | Yes  |
| White Balance            | Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp  |
| Gain Control             | Auto; manual   |
| Noise Reduction          | 2D NR; 3D NR   |
| Motion Detection         | Yes  |
| Region of Interest (RoI) | Yes  |
| Image Stabilization      | Electronic (EIS)   |
| Defog                    | Electronic   |
| Digital Zoom             | 16×  |
| Image Rotation           | 180°   |
| Privacy Masking          | Up to 24 areas can be set, with up to 8 areas in the same view   |
| S/N Ratio                | ≥ 55 dB  |
| <b>Audio</b>             |  |
| Audio Compression        | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723  |
| <b>Network</b>           |  |
| Network Port             | 1 × RJ-45 (10/100 Base-T)  |
| Network Protocol         | FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP |
| Interoperability         | CGI; SDK; ONVIF (Profile S&G&T); P2P   |
| Streaming Method         | Unicast/Multicast  |
| User/Host                | 20 (total bandwidth: 64 M)   |
| Storage                  | Micro SD card (Up to 512 GB); FTP; NAS   |
| Browser                  | IE 9 and later versions<br>Chrome 41 and later versions<br>Firefox 50 and later versions<br>iOS 10 and later versions  |
| Management Software      | KBiVMS, KBView Plus  |
| Mobile Client            | iOS; Android   |
| <b>Port</b>              |  |
| Audio Input              | 1 channel  |

|                               |  |
|-------------------------------|--|
| Audio Output                  | 1 channel  |
| Alarm Linkage                 | Capture; recording; send email; preset; tour; pattern; alarm digital output  |
| Alarm Event                   | Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection |
| Alarm I/O                     | 2/1  |
| Audio I/O                     | 1/1  |
| <b>Power</b>                  |  |
| Power Supply                  | 24 VDC, 2.5 A ± 25%<br>PoE+ (802.3at)  |
| Power Consumption             | Basic: 10 W<br>Max: 22 W (illuminator on)  |
| <b>Environment</b>            |  |
| Operating Temperature         | –40°C to +70°C   |
| Operating Humidity            | ≤ 95% (RH)   |
| Protection                    | IP67; IK10; TVS 6000V lightning proof; surge protection; voltage transient protection  |
| <b>Structure</b>              |  |
| Product Dimensions            | 332 mm × Φ190 mm (13.07" × Φ7.48")   |
| Net Weight                    | 4.7 kg (10.36 lb)  |
| Gross Weight                  | 8.0 kg (17.64 lb)  |
| <b>Dimensions (mm [inch])</b> |  |

