

## PTZIP514NW-X25IR

### Platinum 4 MP 25 × Network IR Speed Dome



The PTZIP514NW-X25IR 4 MP Network IR Speed Dome utilizes a 1/2.8" progressive scan CMOS sensor. With a 25x optical zoom lens, the camera offers more details over expansive areas.

This series of cameras can be used in a wide range of high-definition applications, such as rivers, roads, railways, airports, squares, parks, scenic spots, venues, etc.

- 1/2.8" Progressive Scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with Ultra-Low Light technology
- 25x optical zoom and 16x digital zoom provide close up views over expansive areas
- WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus
- Expansive night viewing with IR range up to 492 ft (150 m)
- 24 VAC & PoE (802.3at)
- High-efficiency H.265 / H.265+ compression technology

## Detection, Observation, Recognition, Identification

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera's ability to distinguish persons or objects within its field of view. It is calculated using the camera sensor specifications and criteria given by EN 62676-4: 2015.

| DORI            | Detect                 | Observe              | Recognize            | Identify           |
|-----------------|------------------------|----------------------|----------------------|--------------------|
| Definition      | 25 px/m                | 63 px/m              | 125 px/m             | 250 px/m           |
| Distance (Tele) | 7,874.0 ft (2,400.0 m) | 3,124.7 ft (952.4 m) | 1,574.8 ft (480.0 m) | 787.4 ft (240.0 m) |

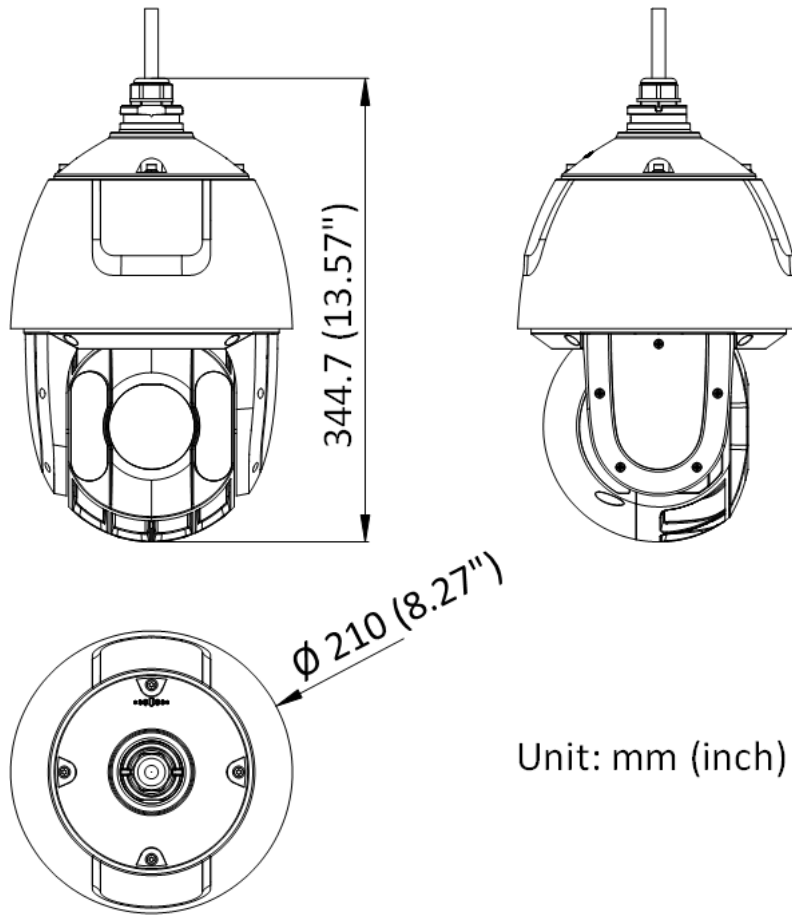
## Specifications

| Camera                   |                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor             | 1/2.8" Progressive Scan CMOS                                                                                                          |
| Min. Illumination        | Color: 0.005 Lux @ (F1.6, AGC on); B/W: 0.001 Lux @ (F1.6, AGC on), 0 Lux with IR                                                     |
| Shutter Speed            | 1 to 1/30,000 sec.                                                                                                                    |
| Slow Shutter             | Yes                                                                                                                                   |
| Day & Night              | IR cut filter                                                                                                                         |
| Zoom                     | 25x optional, 16x digital                                                                                                             |
| Max. Resolution          | 2560 × 1440                                                                                                                           |
| Lens                     |                                                                                                                                       |
| Focus                    | Auto, semi-auto, manual                                                                                                               |
| Focal Length             | 4.8 to 120 mm                                                                                                                         |
| Zoom Speed               | Approx. 3.6 sec.                                                                                                                      |
| Field of View            | Horizontal: 55° to 2.4° (wide-tele)<br>Vertical: 33° to 1.4° (wide-tele)<br>Diagonal: 61.5° to 2.8° (wide-tele)                       |
| Aperture                 | Max. F1.6                                                                                                                             |
| Illuminator              |                                                                                                                                       |
| Supplemental Light Type  | IR                                                                                                                                    |
| Supplemental Light Range | IR Distance: up to 492 ft (150 m)                                                                                                     |
| Functionality            |                                                                                                                                       |
| Movement Range (Pan)     | 360°                                                                                                                                  |
| Movement Range (Tilt)    | -15° to 90° (Auto flip)                                                                                                               |
| Pan Speed                | Pan speed: Configurable from 0.1° to 120°/sec.; preset speed: 120°/sec.                                                               |
| Tilt Speed               | Tilt speed: Configurable from 0.1° to 80°/sec.; preset speed 80°/sec.                                                                 |
| Proportional Pan         | Yes                                                                                                                                   |
| Presets                  | 300                                                                                                                                   |
| Patrol Scan              | 8 patrols, up to 32 presets for each patrol                                                                                           |
| Pattern Scan             | 4 pattern scans                                                                                                                       |
| Power-off Memory         | Yes                                                                                                                                   |
| Park Action              | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan                                       |
| 3D Positioning           | Yes                                                                                                                                   |
| PTZ Status Display       | Yes                                                                                                                                   |
| Preset Freezing          | Yes                                                                                                                                   |
| Scheduled Task           | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output |

| Video                         |                                                                                                                                                                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Stream                   | 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)                                                                                                                                                    |
| Sub-Stream                    | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                                                                                                                                      |
| Third Stream                  | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)                                                                                                            |
| Video Compression             | Main stream: H.264 / H.264+ / H.265 / H.265+<br>Sub-stream: MJPEG / H.264 / H.265<br>Third stream: MJPEG / H.264 / H.265                                                                                                                                                                |
| Video Bit Rate                | 32 Kbps to 16 Mbps                                                                                                                                                                                                                                                                      |
| H.264 Type                    | Baseline profile / Main profile / High profile                                                                                                                                                                                                                                          |
| H.265 Type                    | Main profile                                                                                                                                                                                                                                                                            |
| Scalable Video Coding (SVC)   | H.264 and H.265 encoding                                                                                                                                                                                                                                                                |
| Region of Interest (ROI)      | 8 fixed regions for each stream                                                                                                                                                                                                                                                         |
| Audio                         |                                                                                                                                                                                                                                                                                         |
| Audio Compression             | G.711 / G.722.1 / G.726 / MP2L2 / PCM                                                                                                                                                                                                                                                   |
| Audio Bit Rate                | 64 Kbps (G.711) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 32 - 192 Kbps (MP2L2)                                                                                                                                                                                                           |
| Audio Sampling Rate           | 8 / 16 / 32 / 48 kHz                                                                                                                                                                                                                                                                    |
| Environmental Noise Filtering | Yes                                                                                                                                                                                                                                                                                     |
| Network                       |                                                                                                                                                                                                                                                                                         |
| Network Storage               | NAS (NFS, SMB / CIFS), auto network replenishment (ANR)                                                                                                                                                                                                                                 |
| Protocols                     | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour                                                                                                                                              |
| API                           | Open Network Video Interface (Version 19.12, Profile S, Profile G, Profile T), ISAPI, SDK, ISUP                                                                                                                                                                                         |
| Simultaneous Live View        | Up to 20 channels                                                                                                                                                                                                                                                                       |
| User / Host                   | Up to 32 users; 3 user levels: administrator, operator, and user                                                                                                                                                                                                                        |
| Security                      | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, control timeout settings, security audit log, TLS 1.2, host authentication (MAC address) |
| Web Browser                   | Internet Explorer 11, Chrome 57+, Firefox 52+, Safari 11+                                                                                                                                                                                                                               |
| Imaging                       |                                                                                                                                                                                                                                                                                         |
| Day / Night Switch            | Day, Night, Auto, Schedule                                                                                                                                                                                                                                                              |
| Image Enhancement             | BLC, HLC, 3D DNR                                                                                                                                                                                                                                                                        |
| Wide Dynamic Range (WDR)      | 120 dB                                                                                                                                                                                                                                                                                  |
| Defog                         | Digital Defog                                                                                                                                                                                                                                                                           |
| Regional Exposure             | Yes                                                                                                                                                                                                                                                                                     |
| Regional Focus                | Yes                                                                                                                                                                                                                                                                                     |
| Image Settings                | Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser                                                                                                                                                                       |
| Image Parameters Switch       | Yes                                                                                                                                                                                                                                                                                     |
| Privacy Mask                  | 24 programmable polygon privacy masks, mask color or mosaic configurable                                                                                                                                                                                                                |
| SNR                           | > 52 dB                                                                                                                                                                                                                                                                                 |

| Interface               |                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Interface      | 1 RJ45 10M/100M self-adaptive Ethernet port                                                                                                                                                                                    |
| On-board Storage        | Built-in memory card slot supports MicroSD / SDHC / SDXC cards up to 256 GB                                                                                                                                                    |
| Alarm                   | 2 inputs, 1 output                                                                                                                                                                                                             |
| Audio                   | 1 input (line in), max. input amplitude: 2 - 2.4 vpp, input impedance: 1 K $\Omega$ $\pm$ 10%<br>1 output (line out), line level, output impedance: 600 $\Omega$                                                               |
| Reset                   | Yes                                                                                                                                                                                                                            |
| Event Types             |                                                                                                                                                                                                                                |
| Basic Events            | Motion detection, video tampering alarm, exception/anomaly, alarm input and output                                                                                                                                             |
| Smart Events            | Detections: Line crossing, intrusion, region entrance, region exiting, unattended baggage, object removal, audio exception/anomaly                                                                                             |
| Alarm Linkage           | Upload to FTP / NAS / memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern                                                      |
| Deep Learning Functions |                                                                                                                                                                                                                                |
| Face Capture            | Yes                                                                                                                                                                                                                            |
| General                 |                                                                                                                                                                                                                                |
| Power                   | 24 VAC, Max. 24 W (including max. 9 W for IR and max. 1.6 W for heater); PoE (802.3at)                                                                                                                                         |
| Operating Condition     | -22° to 149° F (-30° to 65° C); Humidity 90% or less (non-condensing)                                                                                                                                                          |
| Demist                  | Yes                                                                                                                                                                                                                            |
| Materials               | Metal                                                                                                                                                                                                                          |
| Dimensions              | Ø 8.27 × 13.57 in. (Ø 210 × 344.7 mm)                                                                                                                                                                                          |
| Weight                  | Approx. 6.61 lbs (3.0 kg)                                                                                                                                                                                                      |
| Certifications          |                                                                                                                                                                                                                                |
| EMC                     | FCC (47 CFR Part 15, Subpart B)<br>CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014)<br>RCM (AS/NZS CISPR 32: 2015)<br>IC (ICES-003: Issue 7)<br>KC (KN 32: 2015, KN 35: 2015) |
| Safety                  | UL (UL 62368-1)<br>CB (IEC 62368-1:2014+A11)<br>CE-LVD (EN 62368-1:2014/A11:2017)                                                                                                                                              |
| Environmental           | CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)                                                                                                                                                  |
| Protections             | IP66 (IEC 60529-2013), TVS 6000V lightning protection, surge protection and voltage transient protection                                                                                                                       |

## Dimensions



## Included Accessories



## Optional Accessories

| PTZKB836                                                                            | LTB742                                                                             | LTB211                                                                              | LTB741                                                                               | PTZKB837                                                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>LTB751</b>                                                                       |                                                                                    |                                                                                     |                                                                                      |                                                                                      |
|  |                                                                                    |                                                                                     |                                                                                      |                                                                                      |