



## 4MP Starlight AI PTZ Camera (25x Zoom)

CODE: CTX-4MP-IP-PTZ-25-V2



Starlight  
Technology



4MP  
Resolution



100m IR  
Range



People and  
Vehicle Detection



AI  
Features



Camera

|                              |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| Image Sensor                 | 1/2.8" CMOS                                                                                |
| Image Resolution             | 4MP (2560 x 1440)                                                                          |
| ROM                          | 4GB                                                                                        |
| RAM                          | 1GB                                                                                        |
| Scanning System              | Progressive                                                                                |
| Electronic Shutter Speed     | 1/1s to 1/30,000s                                                                          |
| Minimum Illumination         | 0.005 lux @ F1.6 (Colour);<br>0.0005 lux @ F1.6 (Black / White);<br>0 lux (Illuminator On) |
| Illumination Distance        | 100m (328.08 ft.) (IR)                                                                     |
| Illuminator On / Off Control | Zoom Prio; Manual; Smart IR; Off                                                           |
| Illuminator Number           | 4 (IR LED)                                                                                 |



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## Lens Information

|                      |                                                                        |                         |                        |                        |
|----------------------|------------------------------------------------------------------------|-------------------------|------------------------|------------------------|
| Focal Length         | 5mm to 125mm                                                           |                         |                        |                        |
| Aperture             | F1.6 to F3.6                                                           |                         |                        |                        |
| Field of View        | Horizontal: 53°-3.4°;<br>Vertical: 30.4°-1.9°;<br>Diagonal: 59.3°-3.9° |                         |                        |                        |
| Optical Zoom         | 25x                                                                    |                         |                        |                        |
| Focus Control        | Auto; Semi-Auto; Manual                                                |                         |                        |                        |
| Iris Control         | Auto                                                                   |                         |                        |                        |
| Close Focus Distance | 1m to 9m (3.28 ft. to 29.53 ft.)                                       |                         |                        |                        |
| DORI Distance        | Detect                                                                 | Observe                 | Recognise              | Identify               |
|                      | 2161.4m<br>(7091.21 ft.)                                               | 864.6m<br>(2836.61 ft.) | 432.3m<br>(1418.3 ft.) | 216.1m<br>(708.99 ft.) |



## Intelligent Functions

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IVS (Perimeter Protection)       | Tripwire; Intrusion; Crossing Fence Detection; Loitering Detection; Abandoned / Missing Object; Fast Moving; Parking Detection; People Gathering; People & Vehicle Alarm Classification                                                                                                                                                                                                                                                                                                                       |
| Face Detection                   | <b>Attributes</b> <ul style="list-style-type: none"> <li>- Gender</li> <li>- Age</li> <li>- Glasses / No Glasses</li> <li>- Expressions (Happy, Sad, Angry, Surprised, Calm, Confused etc.)</li> <li>- Mask / No Mask</li> <li>- Facial Hair / No Facial Hair</li> </ul> <b>Features</b> <ul style="list-style-type: none"> <li>- Optimisation</li> <li>- Tracking</li> <li>- Photo Capture</li> <li>- High-Resolution Face Snapshots</li> <li>- Attribute Extraction</li> <li>- Real-Time Capture</li> </ul> |
| SVD (People & Vehicle Detection) | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Quick Pick                       | Supported                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



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## PTZ Functions

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Pan / Tilt Range     | <b>Pan:</b> 0° To 360° Endless<br><b>Tilt:</b> -15° To +90°, Auto Flip 180° |
| Manual Control Speed | <b>Pan:</b> 0.1° To 200°/s<br><b>Tilt:</b> 0.1° To 270°/s                   |
| Preset Speed         | <b>Pan:</b> 240°/s<br><b>Tilt:</b> 200°/s                                   |
| Preset               | 300                                                                         |
| Tour                 | 8 (up to 32 Presets per Tour)                                               |
| Patterns             | 5                                                                           |
| Scans                | 5                                                                           |
| Power-Off Memory     | Supported                                                                   |
| Idle Motion          | Pattern; Preset; Scan; Tour                                                 |
| PTZ Protocol         | DH-SD; Pelco-P-D (Auto-Recognition)                                         |



## Video

|                   |                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression | H.264H / H.264B / Smart H.265+ / Smart H.264+ / H.265 / H.264 / MJPEG (Only Supported by Sub-Stream)                                                                                                                               |
| Video Frame Rate  | <b>Main Stream:</b><br>4MP / 3MP / 1080P / 1.3MP / 720P @ 1 to 25 / 30 fps<br><b>Sub Stream 1:</b><br>D1 / CIF @ 1 to 25 / 30 fps<br><b>Sub Stream 2:</b><br>1080P / 1.3MP / 720P @ 1 to 25 / 30 fps                               |
| Stream Capability | 3 Streams                                                                                                                                                                                                                          |
| Resolution        | <b>4MP</b> (2560 x 1440);<br><b>3MP</b> (2048 x 1536);<br><b>3MP</b> (2304 x 1296);<br><b>1080P</b> / 2MP (1920 x 1080);<br><b>720P</b> (1280 x 720);<br><b>D1</b> (704 x 576 / 704 x 480);<br><b>CIF</b> (352 x 288 / 352 x 240); |
| Bit Rate Control  | CBR / VBR                                                                                                                                                                                                                          |
| Video Bit Rate    | H.264: 96 to 14,848 kbps;<br>H.265: 38 kbps to 8960 kbps                                                                                                                                                                           |
| Day / Night       | Auto (ICR), Colour or Black / White                                                                                                                                                                                                |
| BLC               | Supported                                                                                                                                                                                                                          |



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### Video (continued.)

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| HLC                      | Supported                                                     |
| WDR                      | Supported                                                     |
| White Balance            | Auto, Natural, Street Lamp, Outdoor, Manual, Regional, Custom |
| Gain Control             | Auto                                                          |
| Noise Reduction          | 2D NR, 3D NR                                                  |
| Motion Detection         | Supported                                                     |
| Region of Interest (RoI) | Supported                                                     |
| Defog                    | Electronic                                                    |
| Digital Zoom             | 16x                                                           |
| Image Rotation           | 180°                                                          |
| Privacy Masking          | Supported (24 Areas, up to 8 in One View)                     |
| S/N Ratio                | ≥55 dB                                                        |



### Audio

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Audio Compression | PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 |
|-------------------|---------------------------------------------------------------|



### Network

|                     |                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Port        | RJ45 (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    | RTMP; CGI; SDK; ONVIF (Profile S&G&T); P2P                                                                                                                       |
| Streaming Method    | Unicast / Multicast                                                                                                                                              |
| User / Host         | 20 (Total Bandwidth: 64MB)                                                                                                                                       |
| Storage             | FTP; SFTP; Micro SD Card (Max. 512 G); NAS                                                                                                                       |
| Browser             | IE9 and Later Versions; Chrome 41 & Later; Firefox 50 & Later; iOS 10 & Later                                                                                    |
| Management Software | λ   Cortex VMS                                                                                                                                                   |
| Mobile Client       | iOS & Android                                                                                                                                                    |



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## Certification

### Certifications

- CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035
- CE-LVD: EN 62368-1
- FCC: 47 CFR FCC Part 15, Subpart B, NSI C63.4
- UL: UL62368-1



## Ports

|                |                                                                                                                                                                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Audio Input    | 1 Channel (Line In, Bare Wire)                                                                                                                                                                                                                                                  |
| Audio Output   | 1 Channel (Line Out, Bare Wire)                                                                                                                                                                                                                                                 |
| Alarm Linkage  | <b>Supports:</b> <ul style="list-style-type: none"> <li>- Capture</li> <li>- Record</li> <li>- Email Notification</li> <li>- Preset</li> <li>- Tour</li> <li>- Pattern</li> <li>- Alarm Digital Input</li> </ul>                                                                |
| Alarm Event    | <b>Supports:</b> <ul style="list-style-type: none"> <li>- Motion/Tampering Detection</li> <li>- Audio Detection</li> <li>- Network Disconnection Detection</li> <li>- IP Conflict Detection</li> <li>- Memory Card State Detection</li> <li>- Memory Space Detection</li> </ul> |
| Alarm In / Out | 2 / 1                                                                                                                                                                                                                                                                           |
| Audio In / Out | 1 / 1                                                                                                                                                                                                                                                                           |



## Parameters & Dimensions

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Power Supply        | <ul style="list-style-type: none"> <li>- 12 VDC/3A±10%</li> <li>- PoE (802.3at)</li> </ul> |
| Power Consumption   | <b>Standard: 9W</b><br><b>Illuminator, Alarm &amp; PTZ: 20W (Max.)</b>                     |
| Storage Temperature | -40°C to +70°C (-40°F to +158°F)                                                           |
| Working Temperature | -40°C to +70°C (-40°F to +158°F)                                                           |
| Working Humidity    | Less than 95% (RH)                                                                         |
| Protection          | IP66, TVS 6000V Lightning Proof; Surge Protection; Voltage Transient Protection            |
| Product Dimensions  | 270.4mm x Φ160mm (10.65" x Φ6.30")                                                         |



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### Parameters & Dimensions (continued.)

|              |                |
|--------------|----------------|
| Net Weight   | 2.4kg (5.29lb) |
| Gross Weight | 3.9kg (8.6lb)  |