EX1000 SERIES
IR Laser 4K PTZ IP Camera

EX1022B4K-L5NAP1

**KEY FEATURES**
- Resolution: 4K(3840X2160), 1080p
- Zoom: 22X 16X Digital Zoom
- Video Output: IP
- IR Laser Illumination: 500 meters Adaptive
- Environmental: IP67
- Power: AC 24V, POE(IEEE 802.3bt)
- ONVIF Compliant

**DESIGN**
- Double sided coating on optical glass with dust and water resistant properties.
- High definition coating to allow increased penetration of light.
- IP67 rating for protection against moisture and dust
- Corrosion resistant treated housing for salt spray environment use.
- Nitrogen filled housing ensures moisture free air inside the camera housing and provides added protection against effects of condensation due to harsh environments.
- Adaptive IR Laser illumination with intelligent sensors to auto adjust for lighting conditions to output optimal image quality.
- Distance up to 500 meters.
- Hardened metal alloy casing shape are ideal for extreme weather condition use.
- Resistance to high wind, wind load durability: 60m/s.
- Extra vertical 30° tilt angle gives greater view of upper area.
- Built in Pressure Equalization to protect internal components and motor performance under extreme conditions.
- Stainless steel ball bearing assembly to provide extended life with minimized corrosion.
- Water resistance with waterproof shaft and oil seal with stainless steel structure.
- ZDP - Zero Deviation Positioning technology ensures high precision and accuracy when using PTZ preset programming by minimizing deviation of presets and patrol positions over time.
- High precision closed-loop stepper motors and gears provide accuracy, smoothness, stability and quietness of Pan/Tilt movements.

**FUNCTIONALITY**
- P video resolution supports up to 12MP(4000x3000)/20, 4K(3840x2160)/30, 1080p/30.
- Video Output: IP (H.264/H.265), Triple video streaming.
  True WDR: 120dB
- IR Laser Illumination: 500 meters Adaptive
- 360 degree pan and 120 degree tilt range of movement with extreme slow and quiet and smooth speed adjustable PTZ control.
- Adaptive speed 0.1°～80°/s, 255 Presets, Speed: 80°/s, 8 Cruises, 3D Positioning
- Design for extreme weather use: IP67 rating for outdoor use.
- Corrosion Resistant treated housing for salt spray environment. Wind Load Durability: 60m/s, Nitrogen Filled Housing, -40°C to +60°C operating temperature.
# Product Specification

<table>
<thead>
<tr>
<th><strong>Model No.</strong></th>
<th>EX1022B4K-L5NAP1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Camera</strong></td>
<td>22X</td>
</tr>
<tr>
<td>Image Sensor</td>
<td>1/1.7&quot; CMOS 8MP</td>
</tr>
<tr>
<td>Lens</td>
<td>22X, 6.5~143mm, 16X Digital Zoom</td>
</tr>
<tr>
<td>Horizontal Angle of View</td>
<td>59.6°(W)~3.9°(T)</td>
</tr>
<tr>
<td>Aperture</td>
<td>F1.5(W)~F3.4(T)</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>0.025 lux(F1.5, AGC ON, Color), 0.0025 lux(F1.5, AGC ON, B/W)</td>
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<tr>
<td>Shutter Speed</td>
<td>1/6~1/8000s</td>
</tr>
<tr>
<td>Focus</td>
<td>Auto, Push</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>Exposure</td>
<td>Auto, Manual, Shutter/iris Priority</td>
</tr>
<tr>
<td>Day/Night</td>
<td>YES</td>
</tr>
<tr>
<td>Backlight Compensation</td>
<td>YES</td>
</tr>
<tr>
<td>WDR</td>
<td>YES, 120db</td>
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<tr>
<td>Privacy Zone Masking</td>
<td>YES</td>
</tr>
<tr>
<td>Defog</td>
<td>YES</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>YES, 4 Zones</td>
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<tr>
<td>Noise Reduction</td>
<td>2D/3D</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>≥50db</td>
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</tbody>
</table>

## Mechanical
- **Pan Movement**: Horizontal: ±360° continuous pan (Zoom Adaptive Speed Range: 0.1°~80°/s)
- **Tilt Movement**: Vertical: +90° to -15° (Zoom Adaptive Speed Range: 0.1°~90°/s)
- **Preset Position**: 255 (Preset Speed: 80°/s)
- **Home Position**: YES
- **Cruise**: Support up to 8 different path movements
- **Environmental**: Outdoor, IP67, Corrosion Resistant Treated Housing, Wind Load Durability: 60m/s, Nitrogen Filled Housing
- **Illumination**: IR Laser. The adaptive IR Laser can be synchronized with different zoom angle. Illumination distance is up to 500 Meters.

## Network
- **Video Compression**: MJPEG, H.264, H.265
- **Resolution/Frame Rate**: 12MP(4000X3000)20; 8MP(3840X2160)30/25; 6MP(3072X2048)30/25; 5MP(3072X1728)30/25; 2560*2048p:30/25; 2560*1920P30/25; 2048*1536p:30/25, 2MP(1920X1080)30/25
- **Protocols**: L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, QoS, DNS, DDNS, NTP, FTP, UPnP, HTTP, SNMP, SIP
- **Multi-stream**: 3 data stream function will satisfy various bandwidth, frame rates and storage requirements in real time
- **Audio Compression**: AAC-LC Broadband Audio Encoding
- **OSD**: Customized OSD

## Interface
- **Network**: 10M/100M/1000M Base-TX Ethernet, RJ45
- **Video**: Analog (Tail-Cable A) 1XBNC
- **Audio I/O (Tail-Cable A)**: Input: Impedance 35kΩ, Amplitude 2V [p-p]; Output: Impedance 600kΩ, Amplitude 2V [p-p]
- **Alarm I/O (Tail-Cable A)**: Alarm Input X1, Alarm Output 1X1
- **Control (Tail-Cable A)**: RS485 (Not Activated)
- **Edge Storage**: Micro SD, Up to 128GB (Optional)

## General
- **Operating Temperature**: -40 to +60
- **Operating Humidity**: 100% Suitable for Use
- **Power Input**: AC 24V, DC±24V, PoE(Compatibale with IEEE802.3bt), (Bolin PoE 97W High Power POE Injector recommended, Optional)
- **Power Consumption**: Min: 23W (Static state with no movement); Max: 50W (Fully loaded operation with heater and IR Laser on)
- **Dimension**: Φ183×428mm
- **Weight**: 10.5kg

## ORDER INFORMATION
- EX1022B4K-L5NAP1 (IP, Nitrogen Filled)
- Bolin 97W High Power POE Injector sold separately. Model number: BL-PP97

All models and specifications are subject to change without notice.