TRUE Dual Output: 3G-SDI (1080p, 1080i)+IP Simultaneous
SDI Resolution: Up to 1080p60, 1080i59.94
IP Resolution: Up to 1080p60
Zoom: 30X, 12X Digital Zoom
RTSP, RTMP, SRT streaming, HTML5 Cross Browser
Image Stabilizer and True WDR 130dB
Environmental: IP67
Power: AC 24V, POE (IEEE802.3bt)
PELCO D/P, Visca, Visca Over IP, Onvif IP

**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 filed housing ensures moisture free air inside the camera housing and provides added protection against effects of condensation due to harsh environments.
- 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**

- SDI video resolution supports up to 1080p60, 1080i59.94;
  IP video resolution supports up to 1080P60.
- Extreme quiet and smooth speed adjustable PTZ movements.
- 3D Positioning, Store Image parameter to a specified preset
- ±120° tilt / ±360° pan range, Adaptive speed 0.1°-80°/s
- 255 Presets, Speed: 80°/s adjustable.
- IR Laser Illumination: 500 meters Adaptive
- RS422/485 (Visca/Pelco P/D), IP (Visca Over IP/Onvif IP), RTSP, RTMP, SRT supported.
- Firmware upgrade via IP
- Explosion Protection Level: IEC/IECEX, Ex nR IIB T4 Gc
## Product Specification

### Model No
- **EX1030SHD-B-LSN2P1**
- **EX1030SHD-B-LSA1**

### Camera
<table>
<thead>
<tr>
<th>EX1030SHD-B-LSN2P1</th>
<th>EX1030SHD-B-LSA1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model No</strong></td>
<td>30X</td>
</tr>
<tr>
<td><strong>Image Sensor</strong></td>
<td>1/2.8” CMOS 2.13MP</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>30X, 4.3~129mm, 12X Digital Zoom</td>
</tr>
<tr>
<td><strong>Horizontal Angle of View</strong></td>
<td>63.7°(W) ~ 2.3°(T)</td>
</tr>
<tr>
<td><strong>Aperture</strong></td>
<td>F1.6(W) ~ F4.7(T)</td>
</tr>
<tr>
<td><strong>Min. Illumination</strong></td>
<td>Color: 0.01 lux (F1.6, AGC on, 1/30s, High sensitive mode), 0.1 lux (F1.6, AGC on, 1/30s, Normal sensitive mode)</td>
</tr>
<tr>
<td><strong>Shutter Speed</strong></td>
<td>1/1~1/10000s</td>
</tr>
<tr>
<td><strong>Focus</strong></td>
<td>Auto Focus, Manual Focus, One Push Trigger</td>
</tr>
<tr>
<td><strong>White Balance</strong></td>
<td>AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp</td>
</tr>
<tr>
<td><strong>Exposure</strong></td>
<td>Full Auto, Gain, Shutter Priority, Iris Priority, Manual, Bright</td>
</tr>
<tr>
<td><strong>DayNight</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Backlight Compensation</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>WDR</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Defog</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Motion Detection</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>Noise Reduction</strong></td>
<td>YES</td>
</tr>
<tr>
<td><strong>S/N Ratio</strong></td>
<td>±50db</td>
</tr>
<tr>
<td><strong>Low Latency Mode</strong></td>
<td>YES</td>
</tr>
</tbody>
</table>

### Mechanical
- **Pan Movement**: Horizontal:360° continuous pan (Zoom Adaptive Speed Range: 0.1° ~ 80°/s )
- **Tilt Movement**: Vertical: +90° to -30° (Zoom Adaptive Speed Range: 0.1° ~ 90°/s)
- **Preset Position**: 255 (Preset Speed: 80°/s)
- **Home Position**: YES
- **Cruise**: Support up to 4 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
- **IP Resolution/Frame Rate**: 1920x1080p60/50/30/25, 1280x720p60/50
- **Protocols**: TCP/IP, ICMP, ARP, RTP, SIP, UDP, HTTP, DNS, DHCP, FTP, NTP, RTMP, RTSP, SRT
- **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 (Duplex Communicate Supported, Audio/Video synchronization)
- **OSD**: Customized OSD
- **Compatible Integration**: ONVIF2.4 (Profile S), VISCA Over IP
- **Browser Support**: Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari
- **3G-SDI Signal**: Signal Fluctuations 800mv +/-10% (external cable extension requirements 75-5, 128 twisted pair shielding, coaxial cable)
- **SDI Signal Format**: B Class
- **Standard**: SMPTE 292(1.5Gb/s), SMPTE 425-A(3Gb/s) With SMPTE352 SDI Metadata Supported
- **On-Screen Title**: YES, SDI video embeded On-Screen title character generator

### Interface
- **Network**: 10M/100M Base-TX Ethernet, RJ45
- **Control Interface**: IP, RS485, RS422
- **Control Protocol**: Pelco-D/P, IP Onvif, Visca, Visca Over IP
- **Audio I/O**: Input: Impedance 35kΩ, Amplitude 2V [p-p]; Output: Impedance 600kΩ, Amplitude 2V [p-p]. (Not activated for None-IP models)
- **Alarm I/O**: Alarm Input X1, Alarm Output 1X1 (Not activated with IP Feature)
- **FW Upgrade**: Via IP, Via Serial Port (Not available for end-user to upgrade)

### General
- **Operating Temperature**: -40 to +60
- **Operating Humidity**: 100% Suitable for Use
- **Power Input**: AC 24V, DC24V, PoE++ (Compatiable with IEEE802.3bt, Type 3 Class6), (Bolin PoE 97W High Power POE Injector recommended, Optional)
- **Power Consumption**: Min: 39W (Static state with no movement); Max 60W (Fully loaded operation with heater and IR Laser on)
- **Dimension**: 180x423mm
- **Weight**: 10.2kg

### ORDER INFORMATION
- **EX1030SHD-B-LSN2P1** (SDI+IP)
- **EX1030SHD-B-LSA1** (SDI)
- Bolin 97W High Power POE Injector sold seperately. Model number: BL-PP97
- Wall Mount: EX1000-WM
- Base Mount: EX1000-MB
- Ceiling Mount: BL-EX-CMS, BL-SD-CMS

All models and specifications are subject to change without notice.