**KEY FEATURES**

- Min. Illumination: 0.002Lux in color
- Resolution: Up to 1080P
- Zoom: 20X, 16X Digital Zoom
- Video Output: IP
- IR Illumination: 100 meters Adaptive
- Environmental: IP67
- Power: AC 24V, POE(IEEE 802.3 bt)
- 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.
- Built in Heater-Blower for minimizing possible effects of condensation under severe temperature changes.
- Adaptive illumination with intelligent sensors to auto adjust for lighting conditions to output optimal image quality.
- Hardened metal alloy casing shape are ideal for extreme weather condition use.
- Extra vertical 15° 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.

**FUNCTIONALITY**

- Bolin Starlight IP PTZ camera provides great color image at night in low light environment. Min. Illumination: 0.002 lux in color
- IP video resolution supports up to 1080p60
- Video Output: IP (H.264/H.265), Triple video streaming.
- True WDR: 120dB
- IR Laser Illumination: 500 meters Adaptive
- 360 degree pan and 105 degree tilt range of movement with extreme slow and quiet and smooth speed adjustable PTZ control.
- Adaptive speed $0.1^\circ \sim 80^\circ/s$, 255 Presets, Speed: $80^\circ/s$, 8 Cruises, 3D Positioning
- Design for extreme weather use: IP67 rating for outdoor use. Corrosion Resistant treated housing for salt spray environment. -40°C to +60°C operating temperature.
- Rain wiper is included.

---

All brand names and registered trademarks are the property of their respective owners.
## Product Specification

### Model No.

<table>
<thead>
<tr>
<th>Camera</th>
<th>SD520BHDG-RNAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X</td>
<td></td>
</tr>
</tbody>
</table>

#### Model No.
- SD520BHDG-RNAPW (IP, Wiper)
- Bolin 97W High Power POE Injector sold seperately. Model number: BL-PP97
- Wall Mount: SD-WM  Ceiling Mount: BL-SD-CMS

### Camera

- **Image Sensor**: 1/2.8" CMOS 2MP
- **Lens**: 20X, 6.7~134mm, 16X Digital Zoom
- **Horizontal Angle of View**: 58.7° (W) ~ 3.9° (T)
- **Aperture**: F1.5 (W) ~ F3.4 (T)
- **Min. Illumination**: 0.002 lux (F1.6, AGC ON, Color), 0.0002 lux (F1.6, AGC ON, B/W)
- **Shutter Speed**: 1/6s to 1/8000s
- **Focus**: Auto, Manual
- **White Balance**: Auto, Manual
- **Exposure**: Auto, Manual, Shutter/Iris Priority, Day/Night
- **Backlight Compensation**: YES
- **WDR**: YES, 120db
- **Privacy Zone Masking**: YES
- **Defog**: YES
- **Motion Detection**: YES, 4 Zones
- **Noise Reduction**: 2D/3D
- **S/N Ratio**: ≥50db

### Mechanical

- **Pan Movement**: Horizontal: ±360° continuous pan (Zoom Adaptive Speed Range: 0.1° ~ 150°/S)
- **Tilt Movement**: Vertical: +90° to -15° (Zoom Adaptive Speed Range: 0.1° ~ 90°/S)
- **Preset Position**: 255 (Preset Speed: 150°/S)
- **Home Position**: YES
- **Cruise**: YES
- **Environmental**: Support up to 8 different path movements
- **Infrared**: The adaptive infrared can be synchronized with different zoom angle. Illumination distance is up to 100 Meters.

### Network

- **Video Compression**: MJPEG, H.264, H.265
- **Resolution/Frame Rate**: 1080p: 60/50/30/25fps; 720p: 50/25fps
- **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
- **Compatible Integration**: ONVIF 2.4
- **Video**: IP Network
  - 10M/100M/1000M Base-TX Ethernet, RJ45
- **Video**: Analog (Tail-Cable A)
  - 1X BNC
- **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 X1
- **Control** (Tail-Cable A)
  - RS485 (Not Activated)
- **Edge Storage**: Micro SD, Up to 128GB (Optional)

### General

- **Operating Temperature**: -40° to +60°
- **Operating Humidity**: 80% Suitable for Use
- **Power Input**: AC 24V, PoE (IEEE 802.3bt) (Bolin PoE 97W High Power POE Injector recommended, Optional)
- **Power Consumption**: Min: 20W (Static state with no movement); Max: 45W (Fully loaded operation with heater and IR LED on)
- **Dimension**: Φ210×333mm
- **Weight**: 5.5kg
- **Rain Wiper**: YES

**ORDER INFORMATION**

- SD520BHDG-RNAPW (IP, Wiper)
- Bolin 97W High Power POE Injector sold seperately. Model number: BL-PP97
- Wall Mount: SD-WM  Ceiling Mount: BL-SD-CMS

All models and specifications are subject to change without notice.