Hikvision ColorVu technology provides 24/7 vivid colorful images with F1.0 advanced lenses and high performance sensors. F1.0 super-aperture collects more light to produce brighter images. Advanced sensor technology can vastly improve the utilization of available light.

- High quality imaging with 4 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 130 dB WDR technology
- 24/7 colorful imaging
- Focus on human and vehicle classification based on deep learning
- -S: audio and alarm interface available
- Water and dust resistant (IP67) and vandal resistant (IK08)
## Specification

### Camera
- **Image Sensor:** 1/1.8” Progressive Scan CMOS
- **Max. Resolution:** 2688 × 1520
- **Shutter Speed:** 1/3 s to 1/100,000 s
- **Min. Illumination:** Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with white light
- **Day & Night:** 24/7 Color imaging
- **Angle Adjustment:** Pan: -30° to 30°, tilt: 0° to 75°, rotate: 0° to 360°

### Lens
- **Lens Type:** Fixed focal lens, 2.8 and 4 mm optional
- **Focal Length & FOV:**
  - 2.8 mm: horizontal FOV 112°, vertical FOV 61°, diagonal FOV 134°
  - 4 mm: horizontal FOV 95°, vertical FOV 47°, diagonal FOV 115°
- **Lens Mount:** M16
- **Iris Type:** Fixed
- **Aperture:** F1.0
- **Depth of Field:**
  - 2.8 mm: 2.3 m to ∞
  - 4 mm: 3.2 m to ∞

### DORI
- 2.8 mm:
  - D: 58 m
  - O: 23 m
  - R: 11 m
  - I: 6 m
- 4 mm:
  - D: 77 m
  - O: 30 m
  - R: 16 m
  - I: 8 m

### Illuminator
- **Supplement Light Type:** White Light
- **Supplement Light Range:** Up to 30 m
- **Smart Supplement Light:** Yes

### Video
- **Main Stream:**
  - 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
  - 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
- **Sub-Stream:**
  - 50 Hz: 25 fps (640 × 480, 640 × 360)
  - 60 Hz: 30 fps (640 × 480, 640 × 360)
- **Third Stream:**
  - 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
  - 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
  
*Third stream is supported under certain settings.

### Video Compression
- **Main Stream:** H.265/H.264/H.265+/H.264+
- **Sub-Stream:** H.265/H.264/MJPEG
- **Third Stream:** H.265/H.264

*Third stream is supported under certain settings.*
<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Video Bit Rate</strong></td>
<td>32 Kbps to 8 Mbps</td>
</tr>
<tr>
<td><strong>H.264 Type</strong></td>
<td>Baseline Profile/Main Profile/High Profile</td>
</tr>
<tr>
<td><strong>H.265 Type</strong></td>
<td>Main Profile</td>
</tr>
<tr>
<td><strong>Bit Rate Control</strong></td>
<td>CBR/VBR</td>
</tr>
<tr>
<td><strong>Scalable Video Coding (SVC)</strong></td>
<td>H.264 and H.265 encoding</td>
</tr>
<tr>
<td><strong>Region of Interest (ROI)</strong></td>
<td>1 fixed region for main stream and sub-stream</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
</tr>
<tr>
<td>Environment Noise Filtering</td>
<td>Yes</td>
</tr>
<tr>
<td>Audio Sampling Rate</td>
<td>8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz</td>
</tr>
<tr>
<td>Audio Bit Rate</td>
<td>64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td></td>
</tr>
<tr>
<td>Simultaneous Live View</td>
<td>Up to 6 channels</td>
</tr>
<tr>
<td>API</td>
<td>Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), iSAPI, SDK</td>
</tr>
<tr>
<td>Protocols</td>
<td>TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPOE, SNMP, ARP</td>
</tr>
<tr>
<td>User/Host</td>
<td>Up to 32 users. 3 user levels: administrator, operator and user</td>
</tr>
<tr>
<td>Security</td>
<td>Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface</td>
</tr>
<tr>
<td>Network Storage</td>
<td>NAS (NFS, SMB/CIFS), auto network replenishment (ANR)</td>
</tr>
<tr>
<td></td>
<td>Together with high-end Hikvision memory card, memory card encryption and health detection are supported</td>
</tr>
<tr>
<td>Client</td>
<td>iVMS-4200, Hik-Connect, Hik-Central</td>
</tr>
<tr>
<td>Web Browser</td>
<td>Plug-in required live view: IE 10+</td>
</tr>
<tr>
<td></td>
<td>Plug-in free live view: Chrome 57.0+, Firefox 52.0+</td>
</tr>
<tr>
<td></td>
<td>Local service: Chrome 57.0+, Firefox 52.0+</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td></td>
</tr>
<tr>
<td>Wide Dynamic Range (WDR)</td>
<td>130 dB</td>
</tr>
<tr>
<td>SNR</td>
<td>≥ 52 dB</td>
</tr>
<tr>
<td>Day/Night Switch</td>
<td>Day, Night, Auto, Schedule</td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>BLC, HLC, 3D DNR</td>
</tr>
<tr>
<td>Image Parameters Switch</td>
<td>Yes</td>
</tr>
<tr>
<td>Image Settings</td>
<td>Rotate, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td></td>
</tr>
<tr>
<td>Ethernet Interface</td>
<td>1 RJ45 10 M/100 M self-adaptive Ethernet port</td>
</tr>
<tr>
<td>On-Board Storage</td>
<td>Built-in memory card slot, support microSD card, up to 256 GB</td>
</tr>
<tr>
<td>Built-in Microphone</td>
<td>Yes</td>
</tr>
<tr>
<td>Audio</td>
<td>-LS:</td>
</tr>
<tr>
<td></td>
<td>1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium</td>
</tr>
<tr>
<td></td>
<td>1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium</td>
</tr>
</tbody>
</table>
### Alarm

- **-LS:** 1 input, 1 output (max. 12 VDC, 20 mA)

### Event

#### Basic Event
Motion detection (human and vehicle targets classification), video tampering alarm, exception

#### Linkage
Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email

#### Smart Event
Line crossing detection, intrusion detection, region entrance detection, region exiting detection
Scene change detection

### Deep Learning Function

- **Face Capture:** Yes
- **Perimeter Protection:** Line crossing, intrusion, region entrance, region exiting
  Support alarm triggering by specified target types (human and vehicle)

### General

**Power**

- 12 VDC ± 25%, Ø5.5 mm coaxial power plug, reverse polarity protection, 0.54 A, max. 6.5 W
- PoE: 802.3af, Class 3, 36 V to 57 V, 0.22 A to 0.14 A, max. 8 W

**Camera Material**

- Base: aluminum, cover: plastic

**Camera Dimension**

- Ø113.6 mm × 72.6 mm (Ø 4.5” × 2.9”)

**Package Dimension**

- 134 mm × 134 mm × 108 mm (5.3” × 5.3” × 4.3”)

**Camera Weight**

- Approx. 400 g (0.9 lb.)

**With Package Weight**

- Approx. 635 g (1.4 lb.)

**Storage Conditions**

- -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)

**Startup and Operating Conditions**

- -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)

**Language**

- 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian

**General Function**

- Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter

### Approval

**EMC**

- FCC (47 CFR Part 15, Subpart B)
- RCM (AS/NZS CISPR 32: 2015)
- IC (ICES-003: Issue 7)

**Safety**

- UL (UL 62368-1)
- CB (IEC 62368-1: 2014+A11)
- LOA (IEC/EN 60950-1)
Environment
- CE-RoHS (2011/65/EU)
- WEEE (2012/19/EU)
- Reach (Regulation (EC) No 1907/2006)

Electrical Safety Protection
- IP67 (IEC 60529-2013)
- IK8 (IEC 62262:2002)

- Available Model
  DS-2CD2547G2-LS (2.8/4 mm)
  DS-2CD2547G2-LS (2.8 mm) (Black)

- Dimension
  \[
  \sigma 13.6 \text{ mm} (4.5")
  \]
  \[
  72.6 \text{ mm} (2.9")
  \]
  Unit: mm (inch)
### Accessory

#### Optional

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Mount Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-1276ZJ-SUS</td>
<td>Corner Mount</td>
<td>(Black)</td>
</tr>
<tr>
<td>DS-1280ZJ-DM46</td>
<td>Junction Box</td>
<td>(Black)</td>
</tr>
<tr>
<td>DS-1272ZJ-120</td>
<td>Wall Mount</td>
<td></td>
</tr>
<tr>
<td>DS-1280ZJ-DM46</td>
<td>Junction Box</td>
<td></td>
</tr>
<tr>
<td>DS-1275ZJ-SUS</td>
<td>Vertical Pole Mount</td>
<td></td>
</tr>
<tr>
<td>DS-1272ZJ-120B</td>
<td>Wall Mount</td>
<td>(Black)</td>
</tr>
<tr>
<td>DS-1275ZJ-SUS</td>
<td>Vertical Pole Mount</td>
<td></td>
</tr>
<tr>
<td>DS-1271ZJ-120</td>
<td>Pendant Mount</td>
<td></td>
</tr>
<tr>
<td>DS-1276ZJ-SUS</td>
<td>Corner Mount</td>
<td></td>
</tr>
<tr>
<td>DS-1271ZJ-120</td>
<td>Pendant Mount</td>
<td></td>
</tr>
</tbody>
</table>

**Distributed by**

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