DS-2CD2H43G1-IZ(S)
4 MP IR Varifocal Turret Network Camera

Key Features

- 1/3" Progressive Scan CMOS
- 2688 × 1520@30fps
- 2.8 to 12 mm varifocal lens
- Color: 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR
- H.265+, H.265, H.264+, H.264
- Three streams
- 120dB WDR
- 2 Behavior analyses, and face detection
- BLC/3D DNR/ROI/HLC
- IP67, IK10
- Built-in micro SD/SDHC/SDXC card slot, up to 128 GB
- 3-Axis adjustment
- IR range: Up to 30 m
- Anti-IR reflection
## Specifications

### Camera

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/3&quot; Progressive Scan CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color: 0.018 Lux @ (F1.6, AGC ON), 0 Lux with IR</td>
</tr>
<tr>
<td>Shutter Speed</td>
<td>1/3 s to 1/100,000 s</td>
</tr>
<tr>
<td>Slow Shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>IR Cut Filter</td>
</tr>
<tr>
<td>WDR</td>
<td>120dB</td>
</tr>
<tr>
<td>Angle Adjustment</td>
<td>Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°</td>
</tr>
</tbody>
</table>

### Lens

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Type</td>
<td>Varifocal lens, motorized lens, 2.8 to 12 mm</td>
</tr>
<tr>
<td>Aperture</td>
<td>F1.6</td>
</tr>
<tr>
<td>FOV</td>
<td>Horizontal FOV: 104° to 29°, vertical FOV: 55° to 17°, diagonal FOV: 125° to 34°</td>
</tr>
<tr>
<td>Lens Mount</td>
<td>Φ14</td>
</tr>
</tbody>
</table>

### Illuminator

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR Range</td>
<td>Up to 30 m</td>
</tr>
<tr>
<td>Wavelength</td>
<td>850nm</td>
</tr>
</tbody>
</table>

### Video

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Resolution</td>
<td>2688 × 1520</td>
</tr>
<tr>
<td>Main Stream</td>
<td>50Hz: 25fps (2688 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720)</td>
</tr>
<tr>
<td>Sub-Stream</td>
<td>50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)</td>
</tr>
<tr>
<td>Third Stream</td>
<td>50Hz: 25fps (1280 × 720, 640 × 360, 352 × 288)</td>
</tr>
<tr>
<td>Video Compression</td>
<td>Main stream/third stream: H.265/H.264</td>
</tr>
<tr>
<td>H.264 Type</td>
<td>Main Profile/High Profile</td>
</tr>
<tr>
<td>H.264+</td>
<td>Main stream supports</td>
</tr>
<tr>
<td>H.265 Type</td>
<td>Main Profile</td>
</tr>
<tr>
<td>H.265+</td>
<td>Main stream supports</td>
</tr>
<tr>
<td>Video Bit Rate</td>
<td>32 Kbps to 16 Mbps</td>
</tr>
<tr>
<td>Scalable Video Coding (SVC)</td>
<td>H.264 and H.265 encoding</td>
</tr>
</tbody>
</table>

### Audio(-S)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Compression</td>
<td>G722.1/G.711/G726/MP2L2/PCM/MP3</td>
</tr>
<tr>
<td>Audio Bit Rate</td>
<td>64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8Kbps-320Kbps(MP3)</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>
</tbody>
</table>

### Smart Feature-set

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Event</td>
<td>Line crossing detection, intrusion detection, face detection</td>
</tr>
<tr>
<td>Basic Event</td>
<td>Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)</td>
</tr>
<tr>
<td>Linkage Method</td>
<td>Trigger recording: memory card, network storage, pre-record and post-record</td>
</tr>
</tbody>
</table>
Trigger notification: HTTP, ISAPI, alarm output (-S), Email

Region of Interest
1 fixed region for main stream and sub-stream

Image

Image Enhancement
BLC/3D DNR/HLC

Image Settings
Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable by client software or web browser

Day/Night Switch
Day/Night/Auto/Schedule/Triggered by Alarm In (-S)

Network

Network Storage
microSD/SDHC/SDXC card (128 GB), local storage and NAS (NFS, SMB/CIFS), ANR Together with high-end Hikvision memory card, memory card encryption and health detection are supported.

Protocols
TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS

API
ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK

Security
Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2

Simultaneous Live View
Up to 6 channels

User/Host
Up to 32 users
3 levels: Administrator, Operator and User

Client
iVMS-4200, Hik-Connect, Hik-Central

Web Browser
Plug-in required live view: IE8+
Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+
Local Service: Chrome 41.0+, Firefox 30.0+

Interface

Communication Interface
1 RJ45 10M/100M self-adaptive Ethernet port

Audio (-S)
1 input (line in), 1 output (line out), four-core terminal block, mono sound

Alarm (-S)
1 input, 1 output

Video Output
No

Interface Style
Pigtail style interface

On-board Style
Built-in Micro SD/SDHC/SDXC slot, up to 128 GB

General

Web Client Language
32 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)

General Function
Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening

Reset
Reset via reset button on camera body, web browser and client software

Startup and Operating Conditions
-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)

Storage Conditions
-30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)

Power Supply
12 VDC ± 25%, Ø 5.5 mm coaxial power plug
PoE (802.3af, class 3)

Power Consumption and Current
12 VDC, 0.92 A, max. 11 W
PoE (802.3af, 36 V to 57 V), 0.35 A to 0.22 A, max. 12.5 W

Material
Metal

Dimensions
Camera: Ø 138.3 x 126 mm (Ø 5.4" x 5.0")
With Package: 170 x 170 x 150 mm (6.7" x 6.7" x 5.9")

Weight
Camera: Approx. 1.20 kg (2.65 lb.)
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>With Package:</strong></td>
<td>Approx. 1.42 kg (3.13 lb.)</td>
</tr>
<tr>
<td><strong>Approval</strong></td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>Ingress protection: IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)</td>
</tr>
</tbody>
</table>

*Note: Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.*

**Available Model:**

DS-2CD2H43G1-IZ (2.8 to 12 mm), DS-2CD2H43G1-IZS (2.8 to 12 mm)
**Dimension**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Φ138.3 mm</td>
<td>(5.4&quot;)</td>
</tr>
<tr>
<td>126 mm</td>
<td>(5.0&quot;)</td>
</tr>
<tr>
<td>98 mm</td>
<td>(3.9&quot;)</td>
</tr>
<tr>
<td>Φ128 mm</td>
<td>(5.0&quot;)</td>
</tr>
<tr>
<td>3-Φ4.6 mm</td>
<td>(0.2&quot;)</td>
</tr>
</tbody>
</table>

**Accessory**

- **DS-1273ZJ-140** Wall Mount
- **DS-1271ZJ-140** Pendant Mount
- **DS-1280ZJ-DM21** Junction Box

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