Key Features

- 1/3\(^\text{rd}\) Progressive Scan CMOS
- 2560 × 1440 @20fps
- 2.8/4 mm fixed lens
- Wi-Fi Connection
- H.265+, H.265, H.264+, H.264
- Color: 0.01 Lux @(F1.2; AGC ON), 0.028 Lux @(F2.0; AGC ON)
- 3D Digital Noise Reduction
- Audio I/O: 1 built-in mic, mono sound
- IP66

www.hikvision.com
### Specifications

<table>
<thead>
<tr>
<th>Camera</th>
<th></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: 0.01 Lux @(F1.2; AGC ON), 0.028 Lux @(F2.0; AGC ON)</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>Auto-Iris</td>
<td>No</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>IR Cut Filter</td>
</tr>
<tr>
<td>Digital Noise Reduction</td>
<td>3D DNR</td>
</tr>
<tr>
<td>Wide Dynamic Range</td>
<td>DWDR</td>
</tr>
<tr>
<td>Axis Adjustment</td>
<td>Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal Length</td>
<td>2.8/4 mm</td>
</tr>
<tr>
<td>Aperture</td>
<td>F2.0</td>
</tr>
<tr>
<td>Focus</td>
<td>No</td>
</tr>
<tr>
<td>FOV</td>
<td>2.8 mm, horizontal FOV: 100°, vertical FOV: 55°, diagonal FOV: 117° 4 mm, horizontal field of view: 75°, vertical FOV: 41°, diagonal FOV: 88°</td>
</tr>
<tr>
<td>Lens Mount</td>
<td>M12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IR</th>
<th></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>

<table>
<thead>
<tr>
<th>Compression Standard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Compression</td>
<td>Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG</td>
</tr>
<tr>
<td>H.264 Type</td>
<td>Baseline Profile/Main Profile/High Profile</td>
</tr>
<tr>
<td>H.265 Type</td>
<td>Main Profile</td>
</tr>
<tr>
<td>Audio Compression</td>
<td>G.711/G.722.1/G.726/MP2L2/PCM</td>
</tr>
<tr>
<td>Audio Bit Rate</td>
<td>64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)</td>
</tr>
<tr>
<td>Video Bit Rate</td>
<td>32 Kbps to 8Mbps</td>
</tr>
<tr>
<td>Audio Sampling Rate</td>
<td>8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz</td>
</tr>
<tr>
<td>Environment Noise Filtering</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Smart Feature-set</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Region of Interest</td>
<td>Support 1 fixed region for main stream and sub-stream</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Image</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Resolution</td>
<td>2560 × 1440</td>
</tr>
<tr>
<td>Main Stream</td>
<td>50Hz: 20fps (2560 × 1440), 25fps (2304 × 1296, 1920 × 1080, 1280 × 720) 60Hz: 20fps (2560 × 1440), 30fps (2304 × 1296, 1920 × 1080, 1280 × 720)</td>
</tr>
<tr>
<td>Sub Stream</td>
<td>50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)</td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>BLC/3D DNR</td>
</tr>
<tr>
<td>Image Settings</td>
<td>Saturation, brightness, contrast and sharpness are adjustable via client software and web browser</td>
</tr>
<tr>
<td>Day/Night Switch</td>
<td>Auto/Scheduled/Day/Night</td>
</tr>
</tbody>
</table>

| Network |  |
### Alarm Trigger
- Motion detection
- Video tampering
- Network disconnected
- IP address conflict
- Illegal login
- HDD error
- HDD full

### Network Storage
Support built-in microSD/SDHC/SDXC card (128G), local storage and NAS (NFS, SMB/CIFS), ANR

### Protocols
- TCP/IP
- ICMP
- HTTP
- HTTPS
- FTP
- DHCP
- DNS
- DDNS
- RTP
- RTSP
- RTCP
- PPPoE
- NTP
- UPnP
- SMTP
- SNMP
- IGMP
- QoS
- IPv6
- UDP
- Bonjour

### General Function
- One-key reset
- Heartbeat
- Mirror
- Password protection
- Privacy mask
- Watermark
- IP address filter

### Firmware Version
V5.5.60

### API
ONVIF (PROFILE S, PROFILE G), ISAPI

### Simultaneous Live View
Up to 6 channels

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

### Client
- iVMS-4200
- Hik-Connect
- iVMS-5200
- iVMS-4500

### Web Browser
- IE8+, Chrome 31.0-44
- Firefox 30.0-51
- Safari 8.0+

### Interface

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

#### On-board Storage
Built-in microSD/SDHC/SDXC slot, up to 128 GB

#### Audio I/O
1 Built-in mic, mono sound

#### Video Out
No

#### Alarm I/O
No

#### Reset Button
Yes

### Wi-Fi

#### Wireless Standards
IEEE802.11b, 802.11g, 802.11n

#### Frequency Range
2.412 GHz - 2.472 GHz

#### Channel Bandwidth
20/40MHz

#### Protocols
- 802.11b: CCK, QPSK, BPSK,
- 802.11g/n: OFDM

#### Security
64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS

#### Transfer Rates
11b/g: 54Mbps, 11n: up to 150Mbps

#### Wireless Range
Up to 50 m
(The performance varies based on actual environment)

#### Power Consumption
<20dBm

### General

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

#### Power Supply
12 VDC ± 25%, Φ 5.5 mm coaxial plug power

#### Power Consumption and Current
12 VDC, 0.5 A, Max: 6W

#### Protection Level
IP66

#### Material
Front cover: plastic, camera body: metal

#### Dimensions
- Camera: 69.7 mm x 67.9 mm x 171.4 mm (2.7” x 2.7” x 6.7”)
- With package: 216 mm x 121 mm x 118 mm (8.5” x 4.8” x 4.6”)

#### Weight
- Camera: 372g (0.8lb)
- With package: 659g (1.5lb)

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**Available Model:**

DS-2CD2041G1-IDW1(2.8/4 mm)
Dimensions

Unit: mm (inch)

69.7 (2.7")
67.9 (2.7")
171.4 (6.7")
98.5 (3.9")

Accessory

DS-1280ZJ-S
Junction Box

Distributed by

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