Key Features

- Up to 8 megapixel high resolution
- Max. 3840 x 2160 @20fps
- 2.8 mm/4 mm/6 mm fixed lens, optional
- H.265, H.265+, H.264+, H.264
- 120dB WDR
- Powered by Darkfighter
- 12 VDC & PoE (802.3af, class 3)
- IR range: Up to 30 m
- Support on-board storage, up to 128 GB
- IP67, IK10
- BLC/3D DNR/ROI/HLC
- Color: 0.008 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.6, AGC ON)
### Specification

<table>
<thead>
<tr>
<th>Camera</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2&quot; Progressive Scan CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>Color: 0.008 Lux @ (F1.2, AGC ON), 0.014 Lux @ (F1.6, 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>Focal length</td>
<td>2.8/4/6 mm</td>
</tr>
<tr>
<td>Focus</td>
<td>Fixed</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 mm, horizontal FOV: 102°, vertical FOV: 55°, diagonal FOV: 120°</td>
</tr>
<tr>
<td></td>
<td>4 mm, horizontal FOV: 78°, vertical FOV: 43°, diagonal FOV: 92°</td>
</tr>
<tr>
<td></td>
<td>6 mm, horizontal FOV: 50°, vertical FOV: 27°, diagonal FOV: 59°</td>
</tr>
<tr>
<td>Lens Mount</td>
<td>M16</td>
</tr>
<tr>
<td>Aperture</td>
<td>F1.6</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>IR cut filter</td>
</tr>
<tr>
<td>DNR</td>
<td>3D DNR</td>
</tr>
<tr>
<td>Wide Dynamic Range</td>
<td>120dB</td>
</tr>
<tr>
<td>3-Axis Adjustment</td>
<td>Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compression Standard</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Video Compression</td>
<td>Main stream: H.265/H.264</td>
</tr>
<tr>
<td></td>
<td>Sub-stream: H.265/H.264/MJPEG</td>
</tr>
<tr>
<td></td>
<td>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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Image</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Resolution</td>
<td>3840 x 2160</td>
</tr>
<tr>
<td>Main Stream</td>
<td>50Hz: 20 fps (3840 x 2160), 25 fps (3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720)</td>
</tr>
<tr>
<td></td>
<td>60Hz: 20 fps (3840 x 2160), 30fps (3072 x 1728, 2560 x 1440, 1920 x 1080, 1280 x 720)</td>
</tr>
<tr>
<td>Sub-Stream</td>
<td>50Hz: 25fps (640 x 480, 640 x 360, 320 x 240)</td>
</tr>
<tr>
<td></td>
<td>60Hz: 30fps (640 x 480, 640 x 360, 320 x 240)</td>
</tr>
<tr>
<td>Third Stream</td>
<td>50Hz: 25fps (1280 x 720, 640 x 360, 352 x 288)</td>
</tr>
<tr>
<td></td>
<td>60Hz: 30fps (1280 x 720, 640 x 360, 352 x 240)</td>
</tr>
<tr>
<td>Image Enhancement</td>
<td>BLC/3D DNR/HLC</td>
</tr>
<tr>
<td>Image Setting</td>
<td>Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable by client software or web browser</td>
</tr>
<tr>
<td>ROI (Region of Interest)</td>
<td>Support 1 fixed region for main stream and sub-stream separately</td>
</tr>
<tr>
<td>Day/Night Switch</td>
<td>Day/Night/Auto/Schedule</td>
</tr>
</tbody>
</table>

*Note: When the main stream resolution is 3840 x 2160, max frame rate is 20 fps for all streams.*

<table>
<thead>
<tr>
<th>Network</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Storage</td>
<td>Support micro SD/SDHC/SDXC card (128G) local storage, NAS (NFS,SMB/CIFS), ANR</td>
</tr>
<tr>
<td>Protocols</td>
<td>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</td>
</tr>
<tr>
<td>General Function</td>
<td>Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening</td>
</tr>
</tbody>
</table>
### 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
- On-board Storage: Built-in micro SD/SDHC/SDXC slot, up to 128 GB
- Reset Button: Yes

### Smart Feature-set
- **Smart Event**
  - Line crossing detection, intrusion detection, unattended baggage detection, object removal detection, face detection, scene change detection
- **Basic Event**
  - Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
- **Linkage Method**
  - Trigger recording: memory card, network storage, pre-record and post-record
  - Trigger captured pictures uploading: FTP, HTTP, NAS, Email
  - Trigger notification: HTTP, ISAPI, Email

### General
- **Operating Conditions**
  - -30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing)
- **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)
- **Power Supply**
  - 12 VDC ± 25%, 5.5 mm coaxial power plug
  - PoE (802.3af, class 3)
- **Power Consumption**
  - 12 VDC, 0.5 A, max: 6 W
  - PoE: (802.3af, 36 VDC to 57 VDC), 0.3 A to 0.2 A, max: 7.5 W
- **IR Range**
  - Up to 30 m
- **Wavelength**
  - 850 nm
- **Protection Level**
  - IP67, IK10
- **Material**
  - Front cover: metal, back cover: metal, sun shield: plastic
- **Dimensions**
  - Camera: 70 × 68 × 171 mm (2.8” × 2.7” × 6.7”)
- **Weight**
  - Camera: 400 g (0.9 lb.)
  - With package: 700 g (1.5 lb.)

### Available Model
- DS-2CD2085G1-I (2.8/4/6 mm)
**Dimension**

- 171.4 (6.7")
- 98.47 (3.87")
- 3.45 (0.17")
- 70 (2.7")
- 55 (2.1")
- 69.85 (2.7")

Unit: mm (inch)

**Accessory**

- DS-1280ZJ-XS
  - Junction Box
- DS-1280ZJ-XS(Black)
  - Junction Box

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