iDS-2CD6810F/C is a specialized people counting camera, supporting separate counting of people entering, exiting, and passing by. The camera combines various crucial and advanced technologies, including binocular stereo vision, 3D people detection and tracking, and height filtering, to guarantee high accuracy.

- 1/3” Progressive Scan CMOS
- Dual lens, dual CPU, support stereo views
- 2 mm/2.8 mm/4 mm lens, optional
- Max. resolution 640 × 960
- H.264
- Flash memory storing people counting data
- 3D digital noise reduction
- 12 VDC/PoE
## Specifications

### Camera

- **Image Sensor**: 1/3″ Progressive Scan CMOS
- **Shutter Speed**: 1/25 s – 1/10,000 s
- **Auto-iris**: Manual
- **Digital Noise Reduction**: 3D DNR

### Lens

- **Focal length**: 2 mm, 2.8 mm, 4 mm, optional
- **Aperture**: 2 mm: F2.2  
  2.8 mm: F2.0  
  4 mm: F2.2
- **FOV**: 2 mm: horizontal FOV 105°, vertical FOV 89°  
  2.8 mm: horizontal FOV 83°, vertical FOV 68°  
  4 mm: horizontal FOV 63°, vertical FOV 55°
- **Lens Mount**: M12

### Compression Standard

- **Video Compression**: Main stream: H.264  
  Sub-stream: H.264
- **H.264 Type**: Baseline Profile/Main Profile
- **Video Bit Rate**: 32 Kbps to 8 Mbps

### People Counting

- **Statistics**: Support separate counting of people entering, exiting, and passing by
- **Data Uploading**: Support real-time uploading and uploading by statistic cycle
- **Email Report**: Daily, weekly, monthly, and annual report supported
- **Height Filter**: Support

### Image

- **Max. Resolution**: 640 × 960
- **Main Stream Max. Frame Rate**: 50Hz: 25fps (640 × 480)  
  60Hz: 24fps (640 × 480)
- **Sub-stream Max. Frame Rate**: 50Hz: 25fps (640 × 960)  
  60Hz: 24fps (640 × 960)
- **Image Enhancement**: 3D DNR
- **Image Setting**: Brightness and sharpness are adjustable by client software or web browser

### Network

- **Alarm Trigger**: Video tampering, alarm input, alarm output, network disconnected, IP address conflict, illegal login
- **Protocols**: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
- **General Function**: One-key reset, anti-flicker, heartbeat, password protection, watermark
- **API**: iSAPI, HTTP
- **Simultaneous Live View**: Up to 6 channels
- **User/Host**: Up to 32 users  
  3 levels: Administrator, Operator and User
- **Client**: iVMS-4200
- **Web Browser**: IE8+, Chrome31-44, Firefox 30.0 - 51

### Interface
| Communication Interface | 1 RJ45 10M/100M Ethernet port  
1 RS-485 interface |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Alarm</td>
<td>1 input, 1 output (up to 12 VDC, 30 mA)</td>
</tr>
<tr>
<td>Reset Button</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**General**

- **Operating Conditions**: -10 °C to +40 °C (+14 °F to +104 °F), humidity 95% or less, no condensing
- **Power Supply**: 12 VDC ± 25%, 5.5 mm coaxial power plug  
  PoE (802.3af, class 3)
- **Power Consumption and Current**: 12 VDC, max. 5 W, 0.42 A  
  PoE(802.3af 36 V to 57 V), max. 7 W, 0.2 A to 0.13 A
- **Material**: Base: metal; cover: plastic
- **Dimensions**:  
  Camera: 194 × 70.2 × 35.8 mm (7.64" × 2.76" × 1.4")  
  Package: 225 × 125 × 76 mm (8.86" × 4.92" × 2.99")
- **Weight**: Approx. 300 g (0.66 lb), 480 g (1.06 lb) with package

**Available Models:**

iDS-2CD6810F/C (2.0 mm), iDS-2CD6810F/C (2.8 mm), iDS-2CD6810F/C (4 mm)

**Dimensions**

![Dimensions Diagram](image)

**Accessories**

- DS-2102ZJ Wall mount
- DS-1227ZJ-P1 In-ceiling mount
- DS-12992ZJ Pendant mount
Installation Recommendation

Following table shows the relations among focal length, mounting height, and max. detection span of typical values. For detailed installation advice, please contact the technical support of HIKVISION.

<table>
<thead>
<tr>
<th>Focal Length (mm)</th>
<th>Mounting Height (m)</th>
<th>Max. Detection Span (m)</th>
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<tbody>
<tr>
<td>2.0</td>
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<tr>
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<td>6.0</td>
<td>5.2</td>
</tr>
</tbody>
</table>

Note: Mounting height of 2.0 mm lens camera should be no higher than 4 meters. Mounting height of 2.8 mm lens camera should be no higher than 4.8 meters.