“SMART” EVOLUTION in IP SURVEILLANCE

4-LINE IP cameras
Smart is the latest concept which aims to bring video surveillance into every aspect of professional, intelligent, efficient, and convenient surveillance. Enriched with Smart technologies - such as Smart Codec, Smart Detection and Smart Control - Hikvision Smart IP cameras are specifically designed to deliver this concept to the market and convey the idea of smart security. Hikvision Smart IP cameras can fully meet all professional market requirements for efficient bandwidth and storage utilization, as well as unparalleled image quality and customer convenience.
**Low Bit Rate**

By applying advanced codec algorithm, Hikvision 4-line Smart IP camera can realize efficient encoding, and further minimize the system's load and storage requirement. E.g.: At a very low bit rate streaming condition, 2Mbps at 720p resolution, 4-line camera could increase the image quality up to 30%.

**Triple Streams**

Triple streams give much more flexibility to users by allowing different data stream to be send simultaneously, and each for independent purposes:
- Main stream: full resolution
- Sub stream: low resolution
- 3rd stream: flexible choice (full, low or dynamic resolution)

**Network Access**

The 4-line Smart IP camera has much bigger throughput capability and can support up to 20 channels live view simultaneously.

**Rotate Mode**

In a vertical-shaped scene such as hallway or corridor, a horizontal shaped image could result in pixel wastage but with rotate mode, 4-line smart IP camera can maximize the whole pixel usage.

**ROI Codec**

Based on user-defined ROI (Region of Interest), camera can decrease a non-ROI's image quality to save maximum bandwidth and storage, and those regions of interest will be smartly transmitted with great details and better image quality under the same bit rate streaming conditions.

**Low Stream Latency**

Hikvision 4-Line Smart IP cameras decrease greatly the network stream latency for a better real-time viewing.

E.g: 140ms at 720p/2M, 160ms at 1080p/4M

**Smart IR**

The improved Smart IR function allows adjusting the IR strength to have a better visibility depending on the specific requirement.

**Defog**

Through the image correction algorithm, Defog function can improve the whole image's visibility and clarity even in very foggy weather.

**EIS (Electronic Image Stabilization)**

EIS technology allows 4-line camera to negate the blurry effects caused by camera shake and get stable images.

**P-Iris**

The 4-line Smart IP camera adopts the most advanced iris control technology - P-Iris, which allows keeping an accurate and consistent sharpness and depth of view.

**120dB WDR**

With super high dynamic range (120dB), Hikvision’s unique WDR technology brings out the cameras the powerful light handling ability in producing crystal-clear images even under extreme strong backlight conditions.

**Low-light**

The newest generation of Hikvision low-light technology allows star-light level supreme visibility even in extremely dim lighting conditions.

**3D DNR**

By taking advantage of Hikvision advanced ISP (Imaging Signal Processing) technology, Hikvision 4-line camera is able to deliver crystal-clear image quality in low light conditions without any "Noising" interference.

**Up to 60fps**

Certain applications require detailed surveillance, such as cash-handling areas; Hikvision 4-Line Smart IP camera with its high frame rate in HD / Full HD resolution, can capture detailed images with supreme image quality.
**Face Detection**

Applying Hikvision face detection technology, 4-line network camera can accurately detect human faces, capture their facial images, or trigger an alarm.

**VQD (Video Quality Detection)**

The 4-line camera automatically self-diagnose to detect any issues relating to storage, network connection, lens direction, defocus, or tampering.

**ABF (Auto Back Focus)**

The Auto Back Focus technology allows the 4-line camera to adjust positioning of the image sensor to obtain an optimal focus; this feature can also be accessed via web Client.

**Smart Auto Focus**

By applying Hikvision’s unique focusing technology, the 4-Line Smart IP cameras boast easier focusing without any need for adjustment in the initial camera set-up and allows users to make further changes to the view by onsite refocusing. Also with its self-lock function, it offers better tamper-resistant capability.

**Audio Detection**

4-Line Smart IP cameras can detect and analyze the surround sound or any sound surge for an alarm triggering when an exceptional voice occurs. Furthermore, it can also filter the background noise interference or detect any audio stream exceptions.

**Intrusion Detection**

Extremely beneficial for defined area protection, in the case of intrusion detection, 4-line camera auto triggers the alarm and event-recording simultaneously. Applying latest algorithm, it automatically analyzes the intruders dimension ratio, to reduce false alarms.

*The features and benefits vary depending on specific product models or R&D process.*
### DS-2CD4012F-(A)

**Key features**
- Up to 1280 x 960 high resolution
- HD720p video (up to 60fps)
- Smart Codec
- ACCD, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: ABF (-A)
- Smart VDO
- Smart Facial Detection
- Smart Audio Detection
- Two way audio, built-in Mic
- Defog
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**
- 69.8 × 58 × 145 mm (2.68" x 2.56" x 5.70")

**Available Models**
- DS-2CD4012F-(A)
- DS-2CD4012FWD-(A)

* - A: Auto Back Focus

### DS-2CD4012FWD-(A)

**Key features**
- Up to 1280 x 960 high resolution
- HD720p video
- Smart Codec
- 120dB WDR, 1/3 ONR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: ABF (-A)
- Smart VDO
- Smart Facial Detection
- Smart Audio Detection
- Two way audio, built-in Mic
- Defog
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**
- 69.8 × 58 × 145 mm (2.68" x 2.56" x 5.70")

**Available Models**
- DS-2CD4012FWD-(A)
- DS-2CD4012FWD-A

* - A: Auto Back Focus
### Key features

- **Up to 1920 x 1080 high resolution**
- **Full HD1080p video**
- **Smart Codec**
- **120dB WDR, 10x zoom**
- **Triple streams**
- **Micro SD/SDXC card slot, up to 64GB**
- **Smart Focus: ABF (-A)**
- **Smart VDO**
- **Smart Facial Detection**
- **Smart Audio Detection**
- **Intrusion Detection**
- **Two-way audio, built-in Mic**
- **Defog**
- **EIS (Electronic Image Stabilization)**

### Dimension (unit: mm)

<table>
<thead>
<tr>
<th>Available Models</th>
<th>DS-2CD4024F-(A)</th>
<th>DS-2CD4024F-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>131 × 69.8</td>
<td>145</td>
</tr>
<tr>
<td>Weight</td>
<td>830g (1.83 lbs)</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>24VAC± 10%, 12 VDC ± 10%, PoE (802.3af)</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>Micro SD/SDXC card slot, max. 64GB</td>
<td>Micro SD/SDXC card slot, max. 64GB</td>
</tr>
</tbody>
</table>

### Image sensor

- 1/2.8” progressive scan CMOS

### Camera

- Image sensor: 1/2.8” progressive scan CMOS
- Image format: 1920 x 1080
- Minimum illumination: Color: 0.005 lux@F1.2, AGC on
- Night vision: Up to 100M
- Image settings: Rotate mode, Saturation, Brightness, Contrast, Grayscale adjustable through client software or web browser

### Network

- ROI: Yes, up to 4 configurable areas
- EIS: Yes
- Defog: Yes
- EIS: Yes, up to 4 configurable areas
- Network input: 10/100M Ethernet port
- Network output: 10/100M Ethernet port
- Compression: H.265 / H.264 / MPEG4 / MJPEG
- Audio compression: G.711 / G.726
- Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726)

### Software

- Product Picture and technical specs subject to change without previous notice.
- For further information, please contact our local sales representatives.
**DS-2CD4112F-I(Z)**

1.4MP Low-light Indoor Dome Network Camera

**DS-2CD4112FWD-I(Z)**

1.3MP WDR Indoor Dome Network Camera

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### Key features

- **Up to 1280 x 960 high resolution**
- **HD720p video (up to 60fps)**
- **Smart Codec**
- **3DNR, 3D DNR**
- **Triple streams**
- **Micro SD/SDXC card slot, up to 64GB**
- **Smart Focus: Motorized VF lens (-I, -Z)**
- **Smart Audio Detection**
- **Smart Facial Detection**
- **Smart VDO**
- **Motorized VF lens**
- **Multiple streams**
- **120dB WDR, 3D DNR**
- **Smart Codec**
- **Up to 1280 x 960 high resolution**
- **HD720p video (up to 60fps)**
- **Smart Codec**
- **3DNR, 3D DNR**
- **Triple streams**
- **Micro SD/SDXC card slot, up to 64GB**
- **Smart Focus: Motorized VF lens (-I, -Z)**
- **Smart Audio Detection**
- **Smart Facial Detection**
- **Smart VDO**
- **Motorized VF lens**
- **Multiple streams**
- **120dB WDR, 3D DNR**
- **Smart Codec**

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### Dimension (unit: mm)

**DS-2CD4112F-I(Z)**

- **Weight**: 1.4MP Low-light Indoor Dome Network Camera: 1400 g (3.09 lbs)
- **Dimensions**: 140 x 121.8 x 140 (5.51” x 4.80”)

**DS-2CD4112FWD-I(Z)**

- **Weight**: 1.3MP WDR Indoor Dome Network Camera: 1320 g (2.91 lbs)
- **Dimensions**: 140 x 121.8 x 140 (5.51” x 4.80”)

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### Video compression

- **DS-2CD4112F-I(Z)**
  - H.264, MPEG4, MJPEG
- **DS-2CD4112FWD-I(Z)**
  - H.264, MPEG4, MJPEG

### Audio compression

- **DS-2CD4112F-I(Z)**
  - G.711, G.726
- **DS-2CD4112FWD-I(Z)**
  - G.711, G.726

### Image sensor

- **DS-2CD4112F-I(Z)**
  - 1/3” progressive scan CMOS
- **DS-2CD4112FWD-I(Z)**
  - 1/3” progressive scan CMOS

### Network interface

- **DS-2CD4112F-I(Z)**
  - 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
- **DS-2CD4112FWD-I(Z)**
  - 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface

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### Available Models

- **DS-2CD4112F-I(Z)**
  - DS-2CD4112F-IZ
  - DS-2CD4112F-IZ
- **DS-2CD4112FWD-I(Z)**
  - DS-2CD4112FWD-IZ
  - DS-2CD4112FWD-IZ
### DS-2CD4124F-I(Z)

**2MP Full HD Indoor Dome Network Camera**

**Key features**
- Up to 1920 x 1080 high resolution
- Full 1080p video
- Smart Codec
- DWDR, 1080p
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR (-I)
- Defog
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**
- Φ 140 × 121.8 mm (Φ 5.51" × 4.80")

**IR range**
- Up to 30m

**Power consumption**
- Max. 6W

### Available Models
- DS-2CD4124F-I
- DS-2CD4124F-I-Z
  - Z: Motorized VF lens
  - Z: 15m IR LEDs
- DS-2CD4124F-I-Z: 30m IR LEDs

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### DS-2CD4132FWD-I(Z)

**3MP WDR Indoor Dome Network Camera**

**Key features**
- Up to 2048 x 1536 high resolution
- Full 1080p video
- Smart Codec
- 1280 x WDR, 1080p
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR (-I)
- Defog
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**
- Φ 140 × 121.8 mm (Φ 5.51" × 4.80")

**IR range**
- Up to 30m

**Power consumption**
- Max. 9W (IR on: 2W, Motorized VF lens: 1W)

### Available Models
- DS-2CD4132FWD-I
- DS-2CD4132FWD-I-Z
  - Z: Motorized VF lens
  - Z: 15m IR LEDs
- DS-2CD4132FWD-I-Z: 30m IR LEDs

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**Note:** Product picture and technical specs subject to change without previous notice. For further information, please contact our local sales representatives.
### Key features

- **Up to 1280 x 960 high resolution**
- **120dB WDR, 1-ch RS-485 interface**
- **Smart Codec**
- **1-ch RS-485 Interface**
- **Smart Focus: Motorized VF lens (-Z)**
- **Smart VQD**
- **Smart Facial Detection**
- **Interruption Detection**
- **Built-in heater & fan**
- **Defog**
- **EIS (Electronic Image Stabilization)**

### Dimension (unit: mm)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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<tbody>
<tr>
<td>Height</td>
<td>1700 g (3.75 lbs)</td>
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<tr>
<td>Dimensions</td>
<td>98 x 105 × 328.8 mm</td>
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<td>Ingress protection</td>
<td>IP66</td>
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<td>Power supply</td>
<td>12 VDC ± 10%, PoE (802.3af)</td>
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<tr>
<td>Operating conditions</td>
<td>-30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)</td>
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</table>

### General

- **On-board storage**: Micro SD/SDXC card slot, up to 64GB
- **Communication interface**: 1 RJ45 10M / 100M ethernet port
- **Protocols**: TCP/IP , ICMP , HTTP , HTTPS, FTP , DHCP , DNS, DDNS, RTP , RTSP , RTCP , PPPoE, NTP , UPnP , SMTP , SNMP , IGMP , 802.1X, QoS, IPv6, Bonjour (SIP , SRTP optional)

### Network

- **Max. resolution**: 1280 x 960
- **Image settings**: Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- **Max. resolution**: 1280 x 1024
- **Audio bit rate**: 64Kbps (G.711) / 16Kbps (G.726) *only for -S model

### Security

- **User authentication**, watermark, IP address filtering, anonymous access, reset
- **ISV license**
- **On-board storage**: Micro SD/SDXC card slot, max. 64GB

### Audio

- **Audio compression**: G.711 / G.726 *only for -S model
- **Video compression**: H.264 / MPEG4 / MJPEG
- **H.264 codec profile**: Baseline profile / main profile / high profile
- **Image sensor**: 1/3” progressive scan CMOS

### Note

- *Product picture and technical specs subject to change without previous notice. For further information, please contact our local sales representatives.*
### **DS-2CD4224F-I(Z/S/H)**

- **2MP Full HD IR Bullet Network Camera**

**Key features**
- Up to 1920 x 1080 high resolution
- Full HD 1080p video
- Smart Codec
- DWDR, 3D DNR
- EIS (Electronic Image Stabilization)
- Defog
- Built-in heater & fan
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**

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<tr>
<th>Dimension</th>
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<tr>
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<td>Height</td>
<td>117.0</td>
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<td>Depth</td>
<td>32.8</td>
</tr>
</tbody>
</table>

**Available Models**
- DS-2CD4224F-I
- DS-2CD4224F-I9
- DS-2CD4224F-IS
- DS-2CD4224F-I2S
- DS-2CD4224F-I2Z
- DS-2CD4224F-I2SH
- DS-2CD4224F-I2SHS

* Z: Motorized VF lens
* -S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
* -H: Hi-Smart Heater

### **DS-2CD4232FWD-I(Z/S/H)**

- **3MP WDR IR Bullet Network Camera**

**Key features**
- Up to 2048 x 1536 high resolution
- Full HD 1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (-Z)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

**Dimensions (unit: mm)**

<table>
<thead>
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<th>Dimension</th>
<th>Value</th>
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<tbody>
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<td>Width</td>
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<tr>
<td>Height</td>
<td>116.3</td>
</tr>
<tr>
<td>Depth</td>
<td>32.8</td>
</tr>
</tbody>
</table>

**Available Models**
- DS-2CD4232FWD-I
- DS-2CD4232FWD-I9
- DS-2CD4232FWD-I2S
- DS-2CD4232FWD-I2Z
- DS-2CD4232FWD-I2SH
- DS-2CD4232FWD-I2SHS

* Z: Motorized VF lens
* -S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
* -H: Hi-Smart Heater

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**Key features**
- DWDR: Digital Wide Dynamic Range
- 3D DNR: 3D Digital Noise Reduction
- EIS: Electronic Image Stabilization
- Defog: Automatic fog removal
- BLC: Backlight Compensation
- ICR: Automatic IR Cut Filter
- Auto iris: Automatic iris control
- Lens mount: Standard C mount
- Slow shutter: Adjusts exposure time
- Min. illumination: Minimum light level required
- Image sensor: Camera sensor type
- Camera: Camera unit
- Network: Ethernet connection
- Protocols: Networking protocols
- Communication: Communication methods
- Image settings: Image adjustments
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**Technical Specifications**

- **Image sensor**: 1/2.8" progressive scan CMOS
- **Effective pixels**: 2048 × 1536
- **Max. resolution**: 2048 x 1536
- **Image overlays**: 128 x 128, BMP 24 bit, zone configurable
- **Picture overlay**: 128 x 128, BMP 24 bit, zone configurable
- **Image quality**: Max. 120 dB WDR
- **Operational conditions**: 0°C ~ 40°C (-10°F ~ 104°F)
- **Humidity**: 90% non-condensing
- **Power supply**: 12V DC ± 10%, PoE (802.3af)
- **Power consumption**: Max. 11W
- **Material**: ABS plastic
- **Weight**: 1.5 kg (3.3 lbs)

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**Network compatibility**: ONVIF, PSIA, CGI
**On-board storage**: Micro SD/SDXC card slot, max. 64GB
**Interface**: RJ-45 10M / 100M ethernet port

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**Product picture and technical specs subject to change without previous notice.**

For further information, please contact our local sales representatives.
**DS-2CD4312F-I(Z/S/H)**

1.4MP Low-light Outdoor Dome Network Camera

**Key features**
- Up to 1280 x 960 high resolution
- H.264+ video (up to 60fps)
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (-Z)
- Smart VQC
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

**Dimension (unit: mm)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>DS-2CD4312F-I</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
<tr>
<td>DS-2CD4312F-S</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
<tr>
<td>DS-2CD4312F-ZH</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
</tbody>
</table>

**Available Models**
- DS-2CD4312F-I
- DS-2CD4312F-S
- DS-2CD4312F-ZH
- DS-2CD4312F-Z

- Z: Motorized VF lens
- S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
- H: Hi-Smart Heater

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**DS-2CD4312FWD-I(Z/S/H)**

1.3MP WDR Outdoor Dome Network Camera

**Key features**
- Up to 1280 x 960 high resolution
- H.264+ video (up to 60fps)
- Smart Codec
- 128GB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (-Z)
- Smart VQC
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

**Dimension (unit: mm)**

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-2CD4312FWD-I</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
<tr>
<td>DS-2CD4312FWD-S</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
<tr>
<td>DS-2CD4312FWD-ZH</td>
<td>Φ 159.8 × 146 mm (Φ 6.29” × 5.75”)</td>
<td>2100 g (4.62 lbs)</td>
</tr>
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</table>

**Available Models**
- DS-2CD4312FWD-I
- DS-2CD4312FWD-S
- DS-2CD4312FWD-ZH
- DS-2CD4312FWD-ZS
- DS-2CD4312FWD-ZDH

- Z: Motorized VF lens
- S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
- H: Hi-Smart Heater

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### Key features

- **Up to 1920 x 1080 high resolution**
- **Full HD1080p video**
- **Smart Codec**
- **DWDR, 3D DNR**
- **Built-in heater & fan**
- **Defog**
- **EIS (Electronic Image Stabilization)**

### Dimension (unit: mm)

<table>
<thead>
<tr>
<th>Available Models</th>
<th>DS-2CD4324F-I(Z/S/H)</th>
<th>DS-2CD4332FWD-I(Z/S/H)</th>
</tr>
</thead>
</table>
| **-Z** Motorized VF lens | **-Z**: 256 x 256 x 256
- S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
- H: Smart Heater | **-Z**: 256 x 256 x 256
- S: 1-ch audio I/O, 1-ch alarm I/O and 1-ch RS-485 interface
- H: Smart Heater |
| **Image sensor** | 1/2.8” progressive scan CMOS | 1/3" progressive scan CMOS |
| **Max. resolution** | 2048 x 1536 | 2048 x 1536 |
| **Lens** | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) |
| **Min. illumination** | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR |
| **Net weight** | 2100 g (4.62 lbs) | 2100 g (4.62 lbs) |
| **Impact protection** | IEC60068-2-75Eh, 50J; EN50102, up to IK10 | IEC60068-2-75Eh, 50J; EN50102, up to IK10 |
| **Power consumption** | Max. 12W | Max. 12W |
| **Interface** | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector |
| **Tilt** | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° |
| **Image sensor** | 1/2.8” progressive scan CMOS | 1/3" progressive scan CMOS |
| **Max. resolution** | 2048 x 1536 | 2048 x 1536 |
| **Lens** | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) |
| **Min. illumination** | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR |
| **Net weight** | 2100 g (4.62 lbs) | 2100 g (4.62 lbs) |
| **Impact protection** | IEC60068-2-75Eh, 50J; EN50102, up to IK10 | IEC60068-2-75Eh, 50J; EN50102, up to IK10 |
| **Power consumption** | Max. 12W | Max. 12W |
| **Interface** | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector |
| **Tilt** | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° |
| **Image sensor** | 1/2.8” progressive scan CMOS | 1/3" progressive scan CMOS |
| **Max. resolution** | 2048 x 1536 | 2048 x 1536 |
| **Lens** | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) |
| **Min. illumination** | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR |
| **Net weight** | 2100 g (4.62 lbs) | 2100 g (4.62 lbs) |
| **Impact protection** | IEC60068-2-75Eh, 50J; EN50102, up to IK10 | IEC60068-2-75Eh, 50J; EN50102, up to IK10 |
| **Power consumption** | Max. 12W | Max. 12W |
| **Interface** | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector | Ethernet 10M / 100M, 1 RJ45 connector, 1 RJ45 connector |
| **Tilt** | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° | Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360° |
| **Image sensor** | 1/2.8” progressive scan CMOS | 1/3" progressive scan CMOS |
| **Max. resolution** | 2048 x 1536 | 2048 x 1536 |
| **Lens** | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) | 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens) |
| **Min. illumination** | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR | 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR |
| **Net weight** | 2100 g (4.62 lbs) | 2100 g (4.62 lbs) |
| **Impact protection** | IEC60068-2-75Eh, 50J; EN50102, up to IK10 | IEC60068-2-75Eh, 50J; EN50102, up to IK10 |
**Professional NVR**

**DS-9632/64NI-ST(−RT)**  
Embedded 2U Powerful NVR  
- 1600Mbps Bit Rate Input Max(up to 32/64-ch IP video)  
- Third-party network cameras supported  
- Up to 5 Megapixels resolution recording  
- HDMI and VGA output at up to 1920x1080P resolution  
- Dual Gigabit network interfaces  
- 8 SATA, 1 eSATA, 3 USB2.0  
  *RT series support RAID 0, 1, 5, 10  
- Support all Hikvision devices, like cameras, DVR/DVS, etc  
- Support HD devices  
- Logical design for users easy to use  
- Support Windows mobile, iPhone, Andriod and Symbian OS  

**DS-7716/32NI-ST(−SP)**  
Embedded 1.SU PoE Professional NVR  
- 80/160Mbps Bit Rate Input Max(up to 16/32-ch IP video)  
- Third-party network cameras supported  
- Up to 5 Megapixels resolution recording  
- HDMI and VGA output at up to 1920x1080P resolution  
- 4 SATA, 3 USB2.0  
  *SP series support 16 independent PoE network interfaces  
- Support all Hikvision devices, like cameras, DVR/DVS, etc  
- Base on mobile phone/PDA device  
- Support HD devices  
- Logical design for users easy to use  
- Support Windows mobile, iPhone, Andriod and Symbian OS  

**iVMS Software**

**iVMS-4200**  
**iVMS-4500**  
**MiVMS-4200**  
- Support all Hikvision devices, like cameras, DVR/DVS, etc  
- Provide extensible solution by using different modules  
- Support HD devices  
- Logical design for users easy to use  
- Manage channels by group  
- Brief instruction for each module  
- Multiple views and screens display  

**Megapixel Vari-focal Lens**

**TV0550D-MPIR**  
- Resolution: Up to 3 Megapixel  
- IR correction  
- Molded glass aspheric surface  
- 5~90mm Vari-focal range  
- 1/2.7” format  
- Aperture: F1.6  
- DC Drive: Auto Iris  

**TV2712D-MPIR**  
- Resolution: Up to 3 Megapixel  
- IR correction  
- Molded glass aspheric surface  
- 2.7~12mm Vari-focal range  
- 1/2.7” format  
- Aperture: F1.6  
- DC Drive: Auto Iris  

**TV2810D-MPIR**  
- Resolution: Up to 3 Megapixel  
- IR correction  
- Molded glass aspheric surface  
- 2.8~10mm Vari-focal range  
- 1/2” format  
- Aperture: F1.4  
- DC Drive: Auto Iris  

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