HDPARAGON Professional Network Camera Series:

HDparagon network camera series is packed with “smart” surveillance technologies and superior features to fully meet the needs of the professional IP surveillance market.

You’ll be amazed at what these cameras can do!

Discover what’s in:

- **SMART** Codec
- **SMART** Region of Interest
- **SMART** Scalable Video Coding
- **SMART** IR
- **SMART** Audio Detection
- **SMART** Video Quality Detection
- **SMART** Focus
- **SMART** Facial Detection
- **SMART** Motion Detection

Other features: Defog, 60fps frame rate, 120dB WDR, ABF, HLC, Heater, Triple Streaming.

*The features vary depending on specific models.*
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 - HDPARAGON Smart IP cameras are specifically designed to deliver this concept to the market and convey the idea of smart security. HDPARAGON 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, HDPARAGON 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%.

![Conventional IP Camera (720P, 2Mbps)](image1)
![HDPARAGON 4-line Smart IPC (720P, 2Mbps)](image2)

**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.

![Horizontal shape (1080P, 2Mbps), ROI off](image3)
![Horizontal shape (1080P, 2Mbps), ROI on](image4)

**Low Stream Latency**

HDPARAGON 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.

![HDPARAGON 4-Line Smart IP Camera](image5)
![Conventional IP Camera](image6)

**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.

![20 Channels](image7)

**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.

![Horizontal shape](image8)
![Rotate Mode](image9)

* The features and benefits vary depending on specific product models or R&D process.
**Smart IR**

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

- Smart IR off
- Smart IR on

**Defog**

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

- Defog off
- Defog on

**EIS (Electronic Image Stabilization)**

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

- EIS off
- EIS on

**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.

Conventional DC Iris Lens  
P-Iris Lens

**120dB WDR**

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

- WDR off
- WDR on

**Low-light**

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

Conventional Full HD1080p Camera  
HDPARAGON Full HD1080p Low-light Camera

**3D DNR**

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

- 3D DNR off
- 3D DNR on

**Up to 60fps**

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

Full HD1080p 60fps  
Full HD1080p 30fps
**Face Detection**

Applying HDPARAGON 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.

**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.

**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.

**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 theintruders dimension ratio, to reduce false alarms.

**Smart Auto Focus**

By applying HDPARAGON’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.

*The features and benefits vary depending on specific product models or R&D process.*
HD PARAGON
smart IPC

4-Line Professional IP Cameras
HDS-8412BX

1.3MP Low-light Box Camera

Key features
- Up to 1280 x 1024 high resolution
- HD720p video (up to 60fps)
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: ABF (optional)
- Smart VQD
- 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>Image sensor</th>
<th>1/3&quot; progressive scan CMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. illumination</td>
<td>Color: 0.01 lux/F1.2, AGC on</td>
</tr>
<tr>
<td></td>
<td>8.0W/0.001 lux/F1.2, AGC on</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1/6 ~ 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens mount</td>
<td>C/CS mount</td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</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>Smart Focus</td>
<td>Auto Back Focus &quot;only for -A model&quot;</td>
</tr>
</tbody>
</table>

Compression standard

Video compression
- H.264 / MPEG4 / MJPEG
- H.264 codec profile
  - Baseline profile / main profile / high profile
Video bit rate
- 32 Kbps – 16 Mbps
Audio compression
- G.711 / G.726
Audio bit rate
- 64Kbps (G.711) / 16Kbps (G.726)

Image
Max. resolution
- 1280 x 1024
Frame rate
- 50 Hz: 25fps (1280 x 1024), 25fps (1280 x 960), 50fps (1280 x 720)
- 60 Hz: 30fps (1280 x 1024), 30fps (1280 x 960), 60fps (1280 x 720)
3rd stream
- Independent setting, up to:
  - 50Hz: 25fps (1280 x 1024), 60Hz: 30fps (1280 x 1024)
Image settings
- Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
Backlight compensation
- Yes, zone configurable
Picture overlay
- 128 x 128, BMP 24bit, zone configurable
HLC
- Yes
Defog
- Yes
ROI
- Yes, up to 4 configurable areas

Network
Network storage
- NAS
Alarm trigger
- Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
Protocols
- TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTCP, PPPoE, NTP, UPnP, SMT, SMTP, IGMP, IPv6, IPv4, IPv6, Bonjour (SIP, SRTP optional)
Security
- User authentication, watermark, IP address filtering, anonymous access
System compatibility
- ONVIF, PSIA, CGI

Interface
Audio input
- 1-ch 3.5mm audio interface, Mic in/LIne in
Audio output
- 1-ch 3.5mm audio interface
Communication interface
- 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
Alarm I/O
- 1/1
Video output
- 1 Vp-p composite output (75 Ω / BNC)
On-board storage
- Micro SD/SDXC card slot, max. 64GB
Reset
- Yes

General
Operating conditions
- -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
Power supply
- 24VAC ± 10%, 12VDC ± 10%, PoE (802.3af)
Power consumption
- Max. 6W (max. 9W with ICR on)
Dimensions
- 69.8 × 58 × 145 mm (2.68" × 2.56" × 5.70")
Weight
- 830g (1.83 lbs)
HDS-8412BXWA

1.3MP WDR Box Camera

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

Dimension (unit: mm)

Available Models
HDS-8412BXWA

* -WA: WDR, Auto Back Focus
# HDS-8424BX(A)

## Key features
- Up to 1920 x 1080 high resolution
- Full HD1080p video
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: AFB (-A)
- Smart VQD
- 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>Camera</th>
<th>Image sensor</th>
<th>1/2.8&quot; progressive scan CMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. illumination</td>
<td>Color: 0.02 lux @ F1.2, AGC on</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B/W: 0.005 lux @ F1.2, AGC on</td>
<td></td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s – 1/100,000s</td>
<td></td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Lens mount</td>
<td>C/CS mount</td>
<td></td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
<td></td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</td>
<td></td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
<td></td>
</tr>
<tr>
<td>Wide dynamic range</td>
<td>DWDR</td>
<td></td>
</tr>
<tr>
<td>Smart Focus</td>
<td>Auto Back Focus *only for -A model</td>
<td></td>
</tr>
</tbody>
</table>

## Compression standard
- Video compression: H.264 / MPEG4 / MJPEG
- H.264 codec profile: Baseline profile / main profile / high profile
- Video bit rate: 32 Kbps – 16 Mbps
- Audio compression: G.711 / G.726
- Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726)

## Image
- Max. resolution: 1920 x 1080
- Frame rate: 50 Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)
  - 25fps (1280 x 960), 30fps (1280 x 960)
  - 25fps (1280 x 720), 30fps (1280 x 720)
- 3rd stream: Independent setting, up to:
  - 50Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)
- Image settings: Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- BLC: Yes, zone configurable
- Picture overlay: 128 x 128, BMP 24bit, zone configurable
- HLC: Yes
- Defog: Yes
- EIS: Yes
- ROI: Yes, up to 4 configurable areas

## Network
- Network storage: NAS
- Alarm trigger: Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
- Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCIP, DNS, DDNS, RTSP, RTCP, PPPoE, RTP, UPnP, SMTP, SNMP, IGMP, SIP, SRTP (optional)
- Security: User authentication, watermark, IP address filtering, anonymous access
- System compatibility: ONVIF, PSIA, CGI

## Interface
- Audio input: 1-ch 3.5mm audio interface, Mic in/Line in
- Audio output: 1-ch 3.5mm audio interface
- Communication interface: 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
- Alarm I/O: 1/1
- Video output: 1 Vp-p composite output (75 Ω / BNC)
- On-board storage: Micro SD/SDXC card slot, max. 64GB
- Revers: Yes

## General
- Operating conditions: -30°C – 60°C (-22°F – 140°F), humidity 95% or less (non-condensing)
- Power supply: 24VAC± 10%, 12VDC ± 10%, PoE (802.3af)
- Power consumption: Max. 6W (max. 9W with ICR on)
- Dimensions: 69.8 x 58 x 145 mm (2.68” x 2.56” x 5.70”)
- Weight: 830g (1.83 lbs)

**Available Models**

HDS-8424BX, HDS-8424BXA

* -A: Auto Back Focus

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

For further information, please contact our local sales representatives.
# HDS-8432BX(WA)

## 3MP WDR Box Camera

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

For further information, please contact our local sales representatives.

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### Key features
- Up to 2048 x 1536 high resolution
- Full HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: ABF
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Two way audio, built-in Mic
- Defog
- EIS (Electronic Image Stabilization)

### Dimension (unit: mm)

![Dimension Diagram]

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### Available Models

HDS-8432BX, HDS-8432BXWA

* -W: WDR, Auto Back Focus

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### Camera

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</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: 0.1 lux@F1.2, AGC on</td>
</tr>
<tr>
<td></td>
<td>B/W: 0.01 lux@F1.2, AGC on</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s – 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens mount</td>
<td>C/CS mount</td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
</tr>
<tr>
<td>Wide dynamic range</td>
<td>120dB WDR</td>
</tr>
<tr>
<td>Smart Focus</td>
<td>Auto Back Focus *only for -A model</td>
</tr>
</tbody>
</table>

### Compression standard

<table>
<thead>
<tr>
<th>Video compression</th>
<th>H.264 / MPEG4 / MJPEG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.264 codec profile</td>
<td>Baseline profile / main profile / high profile</td>
</tr>
<tr>
<td>Video bit rate</td>
<td>32 Kbps – 16 Mbps</td>
</tr>
<tr>
<td>Audio compression</td>
<td>G.711 / G.726</td>
</tr>
<tr>
<td>Audio bit rate</td>
<td>64Kbps (G.711) / 16Kbps (G.726)</td>
</tr>
</tbody>
</table>

### Image

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. resolution</td>
<td>2048 x 1536</td>
</tr>
<tr>
<td>Frame rate</td>
<td>50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 720)</td>
</tr>
<tr>
<td></td>
<td>60 Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 720)</td>
</tr>
<tr>
<td>3rd stream</td>
<td>Independent setting, up to:</td>
</tr>
<tr>
<td></td>
<td>50Hz: 20fps (2048 x 1536), 60Hz: 20fps (2048 x 1536)</td>
</tr>
<tr>
<td>Image settings</td>
<td>Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser</td>
</tr>
<tr>
<td>BLC</td>
<td>Yes, zone configurable</td>
</tr>
<tr>
<td>Picture overlay</td>
<td>128 x 128, BMP 24bit, zone configurable</td>
</tr>
<tr>
<td>HLC</td>
<td>Yes</td>
</tr>
<tr>
<td>Defog</td>
<td>Yes</td>
</tr>
<tr>
<td>EIS</td>
<td>Yes</td>
</tr>
<tr>
<td>ICR</td>
<td>Yes, up to 4 configurable areas.</td>
</tr>
</tbody>
</table>

### Network

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio input</td>
<td>1-ch 3.5mm audio interface, Mic in/Line in</td>
</tr>
<tr>
<td>Audio output</td>
<td>1-ch 3.5mm audio interface</td>
</tr>
<tr>
<td>Communication interface</td>
<td>1 RJ45 10M / 100M ethernet port, 1 RS-48S interface, 1 RS-232 interface</td>
</tr>
<tr>
<td>Alarm I/O</td>
<td>1/1</td>
</tr>
<tr>
<td>Video output</td>
<td>1 Vp-p composite output (75 Ω / BNC)</td>
</tr>
<tr>
<td>On-board storage</td>
<td>Micro SD/SDXC card slot, max. 64GB</td>
</tr>
</tbody>
</table>

### Interface

<table>
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<tr>
<th>Feature</th>
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<td>Audio input</td>
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<td>On-board storage</td>
<td>Micro SD/SDXC card slot, max. 64GB</td>
</tr>
</tbody>
</table>

### General

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating conditions</td>
<td>-30°C – 60°C (-22°F – 140°F)</td>
</tr>
<tr>
<td>humidity</td>
<td>95% or less (non-condensing)</td>
</tr>
<tr>
<td>Power supply</td>
<td>24VAC ± 10%, 12VDC ± 10%, PoE (802.3af)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Max. 6W (max. 9W with ICR on)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>69.8 x 58 x 145 mm (2.68&quot; x 2.56&quot; x 5.70&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>830g (1.83 lbs)</td>
</tr>
</tbody>
</table>

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**HDS-8512VF-IR**

1.3MP Low-light Indoor Dome Network Camera

- **Key features**
  - Up to 1280 x 1024 high resolution
  - HD720p video (up to 60fps)
  - Smart Codec
  - DWDR, 3D DNR
  - Triple streams
  - Micro SD/SDXC card slot, up to 64GB
  - Smart Focus: Motorized VF lens (optional)
  - Smart VQD
  - Smart Facial Detection
  - Smart Audio Detection
  - Intrusion Detection
  - Smart IR (-IR)
  - Defog
  - EIS (Electronic Image Stabilization)

**Dimension (unit: mm)**

<table>
<thead>
<tr>
<th>Camera</th>
<th>Image sensor</th>
<th>1/3” progressive scan CMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. illumination</td>
<td>0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR</td>
<td></td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s = 1/100,000s</td>
<td></td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 ~ 12mm @F1.4, angle of view: 98.4° ~ 30.2° (Z: motorized VF lens)</td>
<td></td>
</tr>
<tr>
<td>Lens mount</td>
<td>φ14</td>
<td></td>
</tr>
<tr>
<td>Angle Adjustment</td>
<td>Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°</td>
<td></td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
<td></td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</td>
<td></td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
<td></td>
</tr>
<tr>
<td>Wide dynamic range</td>
<td>DWDR</td>
<td></td>
</tr>
</tbody>
</table>

**Compression standard**

- Video compression: H.264 / MPEG4 / MJPEG
- H.264 codec profile: Baseline profile / main profile / high profile
- Video bit rate: 52 Kbps ~ 16 Mbps
- Audio compression: G.711 / G.726
- Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726)

**Image**

- Max. resolution: 1280 x 1024
- Frame rate: 50 Hz: 25fps (1280 x 1024), 25fps (1280 x 960), 30fps (1280 x 720)
- 60 Hz: 30fps (1280 x 1024), 30fps (1280 x 960), 60fps (1280 x 720)
- 3rd stream: Independent setting, up to:
  - 50Hz: 25fps (1280 x 1024), 30fps (1280 x 960), 60fps (1280 x 720)
- Image settings: Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- BLC: Yes, zone configurable
- HLC: Yes
- Defog: Yes
- EIS: Yes
- Picture overlay: 128 x 128, BMP 24bit, zone configurable
- ROI: Yes, up to 4 configurable areas.

**Network**

- Network storage: NAS
- Alarm trigger: Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
- Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DMNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP, SRTP optional)
- Security: User authentication, watermark, IP address filtering, anonymous access, reset
- System compatibility: ONVIF, PSIA, CGI

**Interface**

- Audio input: 1-ch 3.5mm audio interface, Mic in/Line in
- Audio output: 1-ch 3.5mm audio interface
- Communication interface: 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
- Alarm I/O: 1/1
- Video output: 1 Vp-p composite output (75 Ω / BNC)
- On-board storage: Micro SD/SDXC card slot, up to 64GB

**Available Models**

HDS-8512VF-IR

- IR: Up to 30m IR LEDs

*Product picture and technical specs subject to change without previous notice. For further information, please contact our local sales representatives.*
HDS-8512VW-IR

1.3MP WDR Indoor Dome Network Camera

**Key features**

- Up to 1280 x 960 high resolution
- HD720p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR (-IR)
- Defog
- EIS (Electronic Image Stabilization)

**Dimension (unit: mm)**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>140 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1400 g (3.09 lbs)</td>
</tr>
</tbody>
</table>

**Available Models**

HDS-8512VW-IR

* -IR Up to 30m IR LEDs

---

**Camera**

- **Image sensor**: 1/3" progressive scan CMOS
- **Min. illumination**: 0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR
- **Shutter time**: 1s ~ 1/100,000s
- **Slow shutter**: Yes
- **Lens**: 2.8 ~ 12mm @F1.4, angle of view: 98.4° ~ 30.2° (-Z: motorized VF lens)
- **Lens mount**: 914
- **Angle Adjustment**: Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
- **Auto iris**: DC drive
- **Day & night**: ICR (Auto/Schedule/Alarm Trigger)
- **Digital noise reduction**: 3D DNR
- **Wide dynamic range**: 120dB WDR
- **Compression standard**
  - Video compression: H.264 / MPEG4 / MJPEG
  - H.264 codec profile: Baseline profile / main profile / high profile
  - Video bit rate: 32 Kbps ~ 16 Mbps
  - Audio compression: G.711 / G.726
  - Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726)

**Image**

- **Max. resolution**: 1280 x 960
- **Frame rate**: 50 Hz: 25fps (1280 x 960), 25fps (1280 x 720)
  - 60 Hz: 30fps (1280 x 960), 30fps (1280 x 720)
- **3rd stream**: Independent setting, up to:
  - 50Hz: 25fps (1280 x 960), 60Hz: 30fps (1280 x 960)
- **Image settings**: Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- **BLC**: Yes, zone configurable
- **HLC**: Yes
- **Defog**: Yes
- **EIS**: Yes
- **Picture overlay**: 128 x 128, BMP 24bit, zone configurable
- **ROI**: Yes, up to 4 configurable areas.

**Network**

- **Network storage**: NAS
- **Alarm trigger**: Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
- **Protocols**: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, ICMPv6, QoS, IPv6, Bonjour (SIP, SRTP optional)
- **Security**: User authentication, watermark, IP address filtering, anonymous access, reset
- **System compatibility**: ONVIF, PSIA, CGI
- **On-board storage**: Micro SD/SDXC card slot, max. 64GB

**Interface**

- **Audio input**: 1-ch 3.5mm audio interface, Mic in/Line in
- **Audio output**: 1-ch 3.5mm audio interface
- **Communication interface**: 1 RJ45 10M/100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
- **Alarm I/O**: 1/1
- **Video output**: 1 Vp-p composite output (75 Ω / BNC)
- **On-board storage**: Micro SD/SDXC card slot, up to 64GB

**General**

- **Operating conditions**: -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
- **Power supply**: 12VDC ± 10%, PoE (802.3af)
- **Power consumption**: Max. 6W
- **Power consumption**: Max. 9W (IR on: 2W, Motorized VF lens: 1W)
- **IR range**: Up to 30m
- **Impact protection**: IEC60068-275Eh, 50J, EN50102, up to IK10
- **Dimensions**: Ø 140 x 121.8 mm (Ø 5.51" x 4.80")
- **Weight**: 1400 g (3.09 lbs)
HDS-8524VF-IR

2MP Full HD Indoor Dome Network Camera

Key features
- Up to 1920 x 1080 high resolution
- Full HD1080p video
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR (-IR)
- Defog
- EIS (Electronic Image Stabilization)

Available Models
HDS-8524VF-IR
- IR: Up to 30m IR LEDs

Image sensor 1/2.8" progressive scan CMOS
Min. illumination 0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR
Shutter time 1s – 1/100,000s
Slow shutter Yes
Lens 2.8 – 12mm @F1.4, angle of view: 113° – 33.8° (Z: motorized VF lens)
Lens mount Ø14
Angle Adjustment Pan: 0° – 360°, tilt: 0° – 75°, rotation: 0° – 360°
Auto iris DC drive
Day & night ICR (Auto/Schedule/Alarm Trigger)
Digital noise reduction 3D DNR
Wide dynamic range DWDR

Compression standards
Video compression H.264 / MPEG4 / MJPEG
H.264 codec profile Baseline profile / main profile / high profile
Video bit rate 52 Kbps ~ 16 Mbps
Audio compression G.711 / G.726
Audio bit rate 64Kbps (G.711) / 16Kbps (G.726)

Image
Max. resolution 1920 x 1080
Frame rate 50 Hz: 25fps (1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720)
60 Hz: 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)
3rd stream Independent setting, up to:
50Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)
Image settings Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
BLC Yes, zone configurable
HLC Yes
Defog Yes
EIS Yes
Picture overlay 128 x 128, BMP 24bit, zone configurable
ROI Yes, up to 4 configurable areas.

Network
Network storage NAS
Alarm trigger Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTR, SMTP, SNMP, RM, 802.1X, QoS, IPv6, Bonjour (SIP, SRTP optional)
Security User authentication, watermark, IP address filtering, anonymous access, reset
System compatibility ONVIF, PSIA, CGI

Interface
Audio input 1-ch 3.5mm audio interface, Mic in/Line in
Audio output 1-ch 3.5mm audio interface
Communication interface 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface
Alarm I/O 1/1
Video output 1 Vp-p composite output (75 Ω / BNC)
On-board storage Micro SD/SDXC card slot, up to 64GB

General
Operating conditions -30°C – 60°C (-22°F – 140°F), humidity 95% or less (non-condensing)
Power supply 12 VDC ± 10%, PoE (802.3af)
Power consumption Max. 6W
Max. 9W (IR on: 2W, Motorized VF lens: 1W)
IR range Up to 30m
Impact protection IEC60068-275Eh, 50J, EN50102, up to IK10
Dimensions Ø 140 x 121.8 mm (Ø 5.51" x 4.80")
Weight 1400 g (3.09 lbs)
3MP WDR Indoor Dome Network Camera

**HDS-8532VW-IR**

**Key features**
- Up to 2048 x 1536 high resolution
- Full HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR (-IR)
- Defog
- EIS (Electronic Image Stabilization)

**Dimension (unit: mm)**

```
121.8

30
```

**Available Models**

HDS-8532VW-IR

* -IR: Up to 30m IR LEDs

---

**Camera**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>1/3” progressive scan CMOS</td>
</tr>
<tr>
<td>Min. illumination</td>
<td>0.1 lux@F1.2, AGC on, 0.14 lux@F1.4, AGC on, 0 lux with IR</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s / 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 ~ 12mm @F1.4, angle of view: 91.2 ~ 28.3° (Z: motorized VF lens)</td>
</tr>
<tr>
<td>Lens mount</td>
<td>Φ14</td>
</tr>
<tr>
<td>Angle Adjustment</td>
<td>Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°</td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
</tr>
<tr>
<td>Wide dynamic range</td>
<td>120dB WDR</td>
</tr>
</tbody>
</table>

**Compression standard**

| Video compression            | H.264 / MPEG4 / MJPEG                |
| H.264 codec profile         | Baseline profile / main profile / high profile |
| Video bit rate              | 32 Kbps ~ 16 Mbps                    |
| Audio compression            | G.711 / G.726                        |
| Audio bit rate              | 64Kbps (G.711) / 16Kbps (G.726)      |

**Image**

| Max. resolution             | 2048 x 1536                          |
| Frame rate                  | 50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 720) |
| 60 Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 720) |
| 3rd stream                  | Independent setting, up to: 50Hz: 20fps (2048 x 1536), 60Hz: 20fps (2048 x 1536) |
| Image settings              | Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser |
| BLC                         | Yes, zone configurable               |
| HLC                         | Yes                                  |
| Defog                       | Yes                                  |
| EIS                         | Yes                                  |
| Picture overlay             | 128 x 128, BMP 24bit, zone configurable |
| ROI                         | Yes, up to 4 configurable areas      |

**Network**

| Network storage             | NAS                                  |
| Alarm trigger               | Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception |
| Protocols                   | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RSTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.11x, QoS, IPv6, Bonjour (SIP, SRTP optional) |
| Security                    | User authentication, watermark, IP address filtering, anonymous access, reset |
| System compatibility        | ONVIF, PSIA, CGI                     |
| On-board storage            | Micro SD/SDXC card slot, max. 64GB   |

**Interface**

| Audio input                 | 1-ch 3.5mm audio interface, Mic in/Line in |
| Audio output                | 1-ch 3.5mm audio interface             |
| Communication interface     | 1 RJ45 10M / 100M ethernet port, 1 RS-485 interface, 1 RS-232 interface |
| Alarm I/O                   | 1/1                                  |
| Video output                | 1 Vp-p composite output (75 Ω / BNC)    |
| On-board storage            | Micro SD/SDXC card slot, up to 64GB   |

**General**

| Operating conditions        | -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing) |
| Power supply                | 12VDC ± 10%, PoE (802.3af)            |
| Power consumption           | Max. 6W                               |
| IR range                    | Max. 9W (IR on: 2W, Motorized VF lens: 1W) |
| Impact protection           | IEC60068-275Eh, 50J, EN50102, up to IK10 |
| Dimensions                  | Ø 140 x 121.8 mm (Ø 5.51” x 4.80”)     |
| Weight                      | 1400 g (3.09 lbs)                     |
HDS-8612VF-IR

1.3MP Low-light IR Bullet Network Camera

Key features
• Up to 1280 x 1024 high resolution
• HD720p video (up to 60fps)
• Smart Codec
• DWDR, 3D DNR
• Triple streams
• Micro SD/SDXC card slot, up to 64GB
• Smart Focus: Motorized VF lens (optional)
• Smart VQD
• Smart Facial Detection
• Smart Audio Detection
• Intrusion Detection
• Built-in heater & fan
• Defog
• EIS (Electronic Image Stabilization)

Dimension (unit: mm)

Camera
Image sensor 1/3" progressive scan CMOS
Min. illumination 0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR
Shutter time 1s – 1/100,000s
Slow shutter Yes
Lens 2.8 ~ 12mm @F1.4, angle of view: 98.4° – 30.2° (-Z: motorized VF lens)
8~20mm @F1.6 lens (optional), angle of view: 35.5° ~ 14.7°
Lens mount Ø14
Auto iris DC drive
Day & night ICR (Auto/Schedule/Alarm Trigger)
Digital noise reduction 3D DNR
Wide dynamic range DWDR
Video compression H.264 / MPEG4 / MJPEG
H.264 codec profile Baseline profile / main profile / high profile
Video bit rate 32 Kbps – 16 Mbps
Audio compression G.711 / G.726 *only for -S model
Audio bit rate 64Kbps (G.711) / 16Kbps (G.726) *only for -S model
Max. resolution 1280 x 1024
Frame rate 50 Hz: 25fps (1280 x 1024), 25fps (1280 x 960), 50fps (1280 x 720)
60 Hz: 30fps (1280 x 1024), 30fps (1280 x 960), 60fps (1280 x 720)
3rd stream Independent setting, up to:
50Hz: 25fps (1280 x 1024), 60Hz: 30fps (1280 x 1024)
Image settings Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
BLC Yes, zone configurable
HLC Yes
Defog Yes
EIS Yes
Picture overlay 128 x 128, BMP 24bit, zone configurable
ROI Yes, up to 4 configurable areas.

Network
Network storage NAS
Alarm trigger Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SRP, SRTP optional)
Security User authentication, watermark, IP address filtering, anonymous access, reset
System compatibility ONVIF, PSIA, CGI
Interface
Communication interface 1 RJ45 10M / 100M ethernet port
On-board storage Micro SD/SDXC card slot, up to 64GB

General
Operating conditions -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
+40°C ~ 60°C (-40°F ~ 140°F) with smart heater on
Power supply 12VDC ± 10%, PoE (802.3af)
Power consumption Max. 11W
IR range Up to 30m
Up to 80m with 8~20m VF lens
Ingress protection IP66
Dimensions 98 x 105 x 328.8 mm
Weight 1700 g (3.75 lbs)
# HDS-8612VW-IR

1.3MP WDR IR Bullet Network Camera

* 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
- HD720p 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)

## Dimension (unit: mm)

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>190.29</td>
<td>88.28</td>
<td>328.28</td>
</tr>
</tbody>
</table>

## Available Models
- HDS-8612VW-IR

## Camera

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>1/3&quot; progressive scan CMOS</td>
</tr>
<tr>
<td>Min. illumination</td>
<td>0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s – 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 ~ 12mm @F1.4, angle of view: 98.4° – 30.2° (Z: motorized VF lens) * 8~20mm @F1.6 lens (optional), angle of view: 35.5° ~ 14.7°</td>
</tr>
<tr>
<td>Lens mount</td>
<td>Φ14</td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</td>
</tr>
<tr>
<td>Digital noise reduction</td>
<td>3D DNR</td>
</tr>
<tr>
<td>Wide dynamic range</td>
<td>120dB WDR</td>
</tr>
</tbody>
</table>

## Compression standard

| Video compression         | H.264 / MPEG4 / MJPEG                               |
| H.264 codec profile      | Baseline profile / main profile / high profile      |
| Video bit rate           | 32 Kbps – 16 Mbps                                   |
| Audio compression         | G.711 / G.726 *only for -S model                   |
| Audio bit rate           | 64Kbps (G.711) / 16Kbps (G.726) *only for -S model  |

## Image

| Max. resolution          | 1280 x 960                                        |
| Frame rate               | 50 Hz: 25fps (1280 x 960), 25fps (1280 x 720)     |
|                         | 60 Hz: 30fps (1280 x 960), 30fps (1280 x 720)     |
| 3rd stream               | Independent setting, up to:                       |
|                         | 50Hz: 25fps (1280 x 960), 60Hz: 30fps (1280 x 960) |
| Image settings           | Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser |
| BLC                      | Yes, zone configurable                            |
| HLC                      | Yes                                                |
| Defog                    | Yes                                                |
| EIS                      | Yes                                                |
| Picture overlay          | 128 x 128, BMP 24bit, zone configurable            |
| ROI                      | Yes, up to 4 configurable areas.                  |

## Network

| Network storage          | NAS                                                |
| Alarm trigger            | Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception |
| Protocols                | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, IGMP, 802.1X, QoS, IPv6, Bonjour (IP/SMIP, optional) |
| Security                 | User authentication, watermark, IP address filtering, anonymous access, reset |
| System compatibility     | ONVIF, PSIA, CGI                                  |
| On-board storage         | Micro SD/SDXC, card slot, max. 64GB               |

## Interface

| Communication interface  | 1 RJ45 10M / 100M ethernet port                    |
| On-board storage         | Micro SD/SDXC, card slot, up to 64GB               |

## General

| Operating conditions     | -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing) |
|                         | -40°C ~ 60°C (-40°F ~ 140°F), with smart heater on |
| Power supply            | 12 VDC ± 10%, PoE (802.3af)                          |
| Power consumption        | Max: 11W/Z-H: Max: 12W                               |
| IR range                 | Up to 30m                                          |
|                         | Up to 80m with 8~20m VF lens                        |
| Ingress protection       | IP66                                              |
| Dimensions              | 98 x 105 x 328.8 mm                                |
| Weight                   | 1700 g (3.75 lbs)                                  |
HDS-8624VF-IR

2MP Full HD IR Bullet Network Camera

**Key features**

- Up to 1920 x 1080 high resolution
- Full HD1080p video
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

**Compression standard**

- H.264 / MPEG4 / MPEG
- H.264 codec profile: Baseline profile / main profile / high profile
- Video bit rate: 32 Kbps – 16 Mbps
- Audio compression: G.711 / G.726 *only for -S model
- Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726) *only for -S model

**Camera**

- Image sensor: 1/2.8” progressive scan CMOS
- Min. illumination: 0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR
- Shutter time: 1ms ~ 1/100,000s
- Slow shutter: Yes
- Lens: 2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (-Z: motorized VF lens)
  * 8~20mm @F1.6 lens (optional), angle of view: 40° ~16.5°
- Lens mount: Φ14
- Auto iris: DC drive
- Day & night: ICR (Auto/Schedule/Alarm Trigger)
- Digital noise reduction: 3D DNR
- Wide dynamic range: DWDR

**Image**

- Max. resolution: 1920 x 1080
- Frame rate: 50 Hz: 25fps (1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720)
  60 Hz: 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)
- 3rd stream: Independent setting, up to:
  50Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)
- Image settings: Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- BLC: Yes, zone configurable
- HLC: Yes
- Defog: Yes
- EIS: Yes
- Picture overlay: 128 x 128, BMP 24bit, zone configurable
- ROI: Yes, up to 4 configurable areas.

**Network**

- Network storage: NAS
- Alarm trigger: Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
- Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SRP, SRTP optional)
- Security: User authentication, watermark, IP address filtering, anonymous access, reset
- System compatibility: ONVIF, PSIA, CGI

**Interface**

- Communication interface: 1 RJ45 10M / 100M ethernet port
- On-board storage: Micro SD/SDXC card slot, up to 64GB

**General**

- Operating conditions: -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
- Power supply: 12 VDC ±10%, PoE (802.3af)
- Power consumption: Max. 11W
- IR range: Up to 30m
- Ingress protection: IP66
- Dimensions: 98 x 105 x 328.8 mm
- Weight: 1700 g (3.75 lbs)
HDS-8632VW-IR
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 (optional)
• Smart VQD
• Smart Facial Detection
• Intrusion Detection
• Built-in heater & fan
• Defog
• EIS (Electronic Image Stabilization)

Dimensions (unit: mm)

Available Models
• HDS-8632VW-IR

Camera
Image sensor
1/3” progressive scan CMOS
Min. illumination
0.1 lux @ F1.2, AGC on, 0.14 lux @ F1.4, AGC on, 0 lux with IR
Shutter time
1s ~ 1/100,000s
Slow shutter
Yes
Lens
2.8 ~ 12mm @ F1.4, angle of view: 91.2° ~ 28.3° (-Z: motorized VF lens) *8 ~ 20mm @ F1.6 lens (optional), angle of view: 33.2° ~ 13.8°
Lens mount
Φ14
Auto iris
DC drive
Day & night
ICR (Auto/Schedule/Alarm Trigger)
Digital noise reduction
3D DNR
Wide dynamic range
120dB WDR
Compression standard
H.264 / MPEG4 / MJPEG
H.264 codec profile
Baseline profile / main profile / high profile
Video bit rate
52 Kbps ~ 16 Mbps
Audio compression
G.711 / G.726 *only for -S model
Audio bit rate
64Kbps (G.711) / 16Kbps (G.726) *only for -S model
Image
Max. resolution
2048 x 1536
Frame rate
50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 720)
60 Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 720)
3rd stream
Independent setting, up to:
50Hz: 20fps (2048 x 1536), 60Hz: 20fps (2048 x 1536)
Image settings
Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
BLC
Yes, zone configurable
HLC
Yes
Defog
Yes
EIS
Yes
Picture overlay
128 x 128, BMP 24bit, zone configurable
ROI
Yes, up to 4 configurable areas.

Network
Network storage
NAS
Alarm trigger
Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
Protocols
TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP
Security
User authentication, watermark, IP address filtering, anonymous access, reset
System compatibility
ONVIF, PSIA, CGI
On-board storage
Micro SD/SDXC card slot, max. 64GB
Interface
Communication interface
1 RJ45 10M / 100M ethernet port
On-board storage
Micro SD/SDXC card slot, up to 64GB

General
Operating conditions
-30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
H: -40°C ~ 60°C (-40°F ~ 140°F), with smart heater on
Power supply
12 VDC ± 10%, PoE (802.3af)
Power consumption
Max. 11W
I-Z/H: Max. 12W
IR range
Up to 30m
Up to 80m IR with 8~20mm VF lens
Ingress protection
IP66
Dimensions
98 x 105 x 328.8 mm
Weight
1700 g (3.75 lbs)

* Product picture and technical specs subject to change without previous notice.
For further information, please contact our local sales representatives.
HDS-8712VF-IR
1.3MP Low-light Outdoor Dome Network Camera

Key features
- Up to 1280 x 1024 high resolution
- HD720p video (up to 60fps)
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

Dimension (unit: mm)

Available Models
- HDS-8712VF-IR
HDS-8712VW-IR
1.3MP WDR Outdoor Dome Network Camera

Key features
- Up to 1280 x 960 high resolution
- HD720p video (up to 60fps)
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

Available Models
- HDS-8712VW-IR

Camera
- Image sensor: 1/3” progressive scan CMOS
- Min. illumination: 0.01 lux@F1.2, AGC on, 0.014 lux@F1.4, AGC on, 0 lux with IR
- Shutter time: 1s ~ 1/100,000s
- Slow shutter: Yes
- Lens: 2.8 ~ 12mm @F1.4, angle of view: 98.4° ~ 30.2° (F: motorized VF lens)
- Lens mount: 1/4
- Angle adjustment: Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°
- Auto iris: DC drive
- Day & night: ICR (Auto/Schedule/Alarm Trigger)
- Digital noise reduction: 3D DNR
- Wide dynamic range: 120dB WDR
- Compression standard: H.264 / MPEG4 / MJPEG
- Video compression: Baseline profile / main profile / high profile
- Video bit rate: 32 Kbps ~ 16 Mbps
- Audio compression: G.711 / G.726 *only for -S model
- Audio bit rate: 64Kbps (G.711) / 16Kbps (G.726) *only for -S model

Image
- Max. resolution: 1280 x 960
- Frame rate: 50 Hz: 25fps (1280 x 960), 25fps (1280 x 720)
- 60 Hz: 30fps (1280 x 960), 30fps (1280 x 720)
- 3rd stream: Independent setting, up to:
  - 50Hz: 25fps (1280 x 960), 60Hz: 30fps (1280 x 960)
- Image settings:
  - Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser
- BLC: Yes, zone configurable
- HLC: Yes
- Defog: Yes
- EIS: Yes
- Picture overlay: 128 x 128, BMP 24bit, zone configurable
- ROI: Yes, up to 4 configurable areas

Network
- Network storage: NAS
- Alarm trigger: Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception
- Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP, SRTP optional)
- Security: User authentication, watermark, IP address filtering, anonymous access, reset
- System compatibility: ONVIF, PSIA, CGI
- On-board storage: Micro SD/SDXC card slot, max. 64GB

Interface
- Communication interface: 1 RJ45 10M / 100M ethernet port
- Video Output: 1 Vp-p composite output (75 Ω/RCA, for lens adjustment when installation)
- On-board storage: Micro SD/SDXC card slot, up to 64GB

General
- Operating conditions: -30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)
- Power supply: 24 VAC ± 10%, PoE (802.3af)
- Power consumption: Max. 12W
- IR range: Up to 30m
- Impact protection: IP66
- Dimensions: 159.8 x 146 mm (6.29” x 5.75”)
- Weight: 2100 g (4.62 lbs)
# HDS-8724VF-IR

## 2MP Full HD Outdoor Dome Network Camera

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

### Key features
- Up to 1920 x 1080 high resolution
- Full HD1080p video
- Smart Codec
- DWDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

### Dimension (unit: mm)

![Dimension Diagram](image)

### Available Models

- **HDS-8724VF-IR**

---

**HDS-8724VF-IR**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Camera</strong></td>
<td></td>
</tr>
<tr>
<td>Image sensor</td>
<td>1/2.8” progressive scan CMOS</td>
</tr>
<tr>
<td>Min. illumination</td>
<td>0.02 lux@F1.2, AGC on, 0.027 lux@F1.4, AGC on, 0 lux with IR</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s ~ 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 ~ 12mm @F1.4, angle of view: 113° ~ 33.8° (2Z: motorized VF lens)</td>
</tr>
<tr>
<td>Lens mount</td>
<td>φ14</td>
</tr>
<tr>
<td>Angle adjustment</td>
<td>Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°</td>
</tr>
<tr>
<td>Auto iris</td>
<td>DC drive</td>
</tr>
<tr>
<td>Day &amp; night</td>
<td>ICR (Auto/Schedule/Alarm Trigger)</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>Compression standards</td>
<td>H.264 / MPEG4 / MJPEG</td>
</tr>
<tr>
<td>Video compression</td>
<td>H.264 codec profile: Baseline profile / main profile / high profile</td>
</tr>
<tr>
<td>Video bit rate</td>
<td>32 Kbps ~ 16 Mbps</td>
</tr>
<tr>
<td>Audio compression</td>
<td>G.711 / G.726 (only for -S model)</td>
</tr>
<tr>
<td>Audio bit rate</td>
<td>64Kbps (G.711) / 16Kbps (G.726) (only for -S model)</td>
</tr>
<tr>
<td><strong>Image</strong></td>
<td></td>
</tr>
<tr>
<td>Max. resolution</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Frame rate</td>
<td>50 Hz: 25fps (1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720) 60 Hz: 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)</td>
</tr>
<tr>
<td>3rd stream</td>
<td>Independent setting, up to: 50Hz: 25fps (1920 x 1080), 60Hz: 30fps (1920 x 1080)</td>
</tr>
<tr>
<td>Image settings</td>
<td>Rotate mode, saturation, brightness, contrast, grayscale adjustable through client software or web browser</td>
</tr>
<tr>
<td>BLC</td>
<td>Yes, zone configurable</td>
</tr>
<tr>
<td>HLC</td>
<td>Yes</td>
</tr>
<tr>
<td>Defog</td>
<td>Yes</td>
</tr>
<tr>
<td>EIS</td>
<td>Yes</td>
</tr>
<tr>
<td>Picture overlay</td>
<td>128 x 128, BMP 24bit, zone configurable</td>
</tr>
<tr>
<td>ROI</td>
<td>Yes, up to 4 configurable areas.</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td></td>
</tr>
<tr>
<td>Network storage</td>
<td>NAS</td>
</tr>
<tr>
<td>Alarm trigger</td>
<td>Motion detection, face detection, tampering alarm, defocus, network disconnect, IP address conflict, storage exception</td>
</tr>
<tr>
<td>Protocols</td>
<td>TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTCP, PPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP, SRTP optional)</td>
</tr>
<tr>
<td>Security</td>
<td>User authentication, watermark, IP address filtering, anonymous access, reset</td>
</tr>
<tr>
<td>System compatibility</td>
<td>ONVIF, PSIA, CGI</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td></td>
</tr>
<tr>
<td>Communication interface</td>
<td>1 RJ45 10M / 100M ethernet port</td>
</tr>
<tr>
<td>Video Output</td>
<td>1 Vp-p composite output (75 Ω (RCA), for lens adjustment when installation)</td>
</tr>
<tr>
<td>On-board storage</td>
<td>Micro SD/SDXC card slot, up to 64GB</td>
</tr>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>Operating conditions</td>
<td>-30°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing) +40°C ~ 60°C (-40°F ~ 140°F), with smart heater on</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 VAC ± 10%, POE (802.3af)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Max. 12W (Z+) / Max. 13W (H-)</td>
</tr>
<tr>
<td>IR range</td>
<td>Up to 30m</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>IP66</td>
</tr>
<tr>
<td>Impact protection</td>
<td>IEC60068-2-75Eh, 50J, ENV50102, up to IK10</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Ø 159.8 x 146 mm (Ø 6.29” x 5.75”)</td>
</tr>
<tr>
<td>Weight</td>
<td>2100 g (4.62 lbs)</td>
</tr>
</tbody>
</table>
HDS-8732VW-IR
3MP WDR Outdoor Dome Network Camera

Key features
- Up to 2048 x 1536 high resolution
- Full HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- Micro SD/SDXC card slot, up to 64GB
- Smart Focus: Motorized VF lens (optional)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Defog
- EIS (Electronic Image Stabilization)

Dimensions (unit: mm)

<table>
<thead>
<tr>
<th>Detail</th>
<th>Dimension</th>
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<tbody>
<tr>
<td>Width</td>
<td>159.8 mm</td>
</tr>
<tr>
<td>Height</td>
<td>146 mm</td>
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Available Models
- HDS-8732VW-IR

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<td>1/3&quot; progressive scan CMOS</td>
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<tr>
<td>Min. illumination</td>
<td>0.1 lux/F1.2, AGC on, 0.14 lux/F1.4, AGC on, 0 lux with IR</td>
</tr>
<tr>
<td>Shutter time</td>
<td>1s ~ 1/100,000s</td>
</tr>
<tr>
<td>Slow shutter</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens</td>
<td>2.8 ~ 12mm @F1.4, angle of view: 91.2° ~ 28.3° (+Z: motorized VF lens)</td>
</tr>
<tr>
<td>Lens mount</td>
<td>F1.4</td>
</tr>
<tr>
<td>Angle adjustment</td>
<td>Pan: 0° ~ 360°, tilt: 0° ~ 75°, rotation: 0° ~ 360°</td>
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<td>3D DNR</td>
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<td>Wide dynamic range</td>
<td>120dB WDR</td>
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<td>Compression standard</td>
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<td>Video compression</td>
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<td>BLC</td>
<td>Yes, zone configurable</td>
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<td>Defog</td>
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<td>Picture overlay</td>
<td>128 x 128, BMP 24bit, zone configurable</td>
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<td>General</td>
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<td>Operating conditions</td>
<td>50°C ~ 60°C (-22°F ~ 140°F), humidity 95% or less (non-condensing)</td>
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<td>Ingress protection</td>
<td>IP66</td>
</tr>
<tr>
<td>Impact protection</td>
<td>EN60068-2-55Eh, 50J, EN50102, up to IK10</td>
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<tr>
<td>Dimensions</td>
<td>159.8 x 146 mm (6.29&quot; x 5.75&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>2100 g (4.62 lbs)</td>
</tr>
</tbody>
</table>
Professional NVR

HDS-N9632/64I-SH(-RT)
*Embedded 2U Powerful NVR*
- 160Mbps 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 RAID0, 1, 5, 10

HDS-N7716/32I-ST(-POE)
*Embedded 1.5U 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
- *-*POE series support 16 independent PoE network interfaces

iVMS Software

CMS software

iVMS-4200
*Client Software*
- Support all HDPARAGON devices, like cameras, DVR/DVS, etc.
- Provide exible solution by using diferent 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

Guarding Expert

Mobile Phone Software

- Support all HDPARAGON 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

Megapixel Vari-focal Lens

HDS-VF0550CS
- Resolution: Up to 3 Megapixel
- IR correction
- Molded glass aspheric surface
- 5~50mm Vari-focal range
- 1/2.7” format
- Aperture: F1.6
- DC Drive, Auto Iris

HDS-VF2712CS
- Resolution: Up to 3 Megapixel
- IR correction
- Molded glass aspheric surface
- 2.7~12mm Vari-focal range
- 1/2.7” format
- Aperture: F1.2
- DC Drive, Auto Iris

HDS-VF2810CS
- Resolution: Up to 3 Megapixel
- IR correction
- Molded glass aspheric surface
- 2.8~10mm Vari-focal range
- 1/2.7” format
- Aperture: F1.4
- DC Drive, Auto Iris
**Halls**

Issues: Vertically-shaped areas, vulnerable to tampering and vandalism

Up to 3 Mega-pixel high resolution, Rotate mode specially designed for hallways, Vandal-proof, Smart QVD, Smart IR *IR strength configurable

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**Cashier**

Issues: Ultra-detailed image

3MP high resolution, Up to 60fps Full HD video

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**Perimeter**

Issues: Large areas, external weather conditions

Up to 80m IR Range, IP66 Weather-proof, Heater

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**Security Room**

Issues: High data throughput

Up-to 64 channel IP video, Support up-to 5 megapixel resolution
With heavy traffic flow from numerous stores, restaurants, and independent areas, shopping malls are prone to security breakdowns in the areas of shoplifting, theft, fraud, and assault.

**Shopping Malls**

**Entrance**
Issues: Sunlight, heavy traffic flow
120dB WDR, Full HD video, Face Detection, ROI codec

**Underground Parking Lots**
Issues: Dark area, vehicle headlights, tamper attack
HD video, IR, Low-light, High Light Compensation, IP66, vandal-proof

**Hallway Intersections**
Issues: Large multi-directional traffic flow
Panoramic view, IR LEDs, 6MP or 3MP, WDR, Low-light, Virtual PTZ

**Shop & Store**
Issues: Aesthetical requirements
Thumb-sized lens unit, Painless installation, Alarm, Audio I/O, Dual-lens unit support

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**Success Stories**

GUCCI Store, China

DM Drugstores, Germany

Oechsle Department Stores, Peru