

## iDS-7216HQHI-M2/XT

### 16-ch 1080P 1U H.265 AcuSense DVR

#### Key Feature

- 16 channels and 2 HDD 1U AcuSense DVR
- 5 signals input adaptively (HDTVI/AHD/CVI/TVBS/IP)
- Efficient H.265 pro+ compression technology
- Up to 3K/ 5 MP @ 12 fps encoding ability
- Up to 24 channels IP camera inputs, each channel up to 6MP
- Up to 24 \*1080P@30 decoding ability
- Up to 16 channels (analog channel) Motion Detection 2.0
- Up to 8 channels (advanced model, analog channel) Perimeter Protection
- Up to 4 channels (advanced model, analog channel) human face recognition



#### Compression and Recording

- H.265 Pro+ can be enabled to improve encoding efficiency and reduce data storage costs
- Recording at up to 8 MP resolution

#### Smart Function

- Up to 16 channels (analog channel) Motion Detection 2.0
- Up to 8 channels (advanced model, analog channel) Perimeter Protection
- Up to 4 channels (advanced model, analog channel) human face recognition
- Support smart playback to enhance playback efficiency

#### Network & Ethernet Access

- Support Hik-Connect & DDNS (Dynamic Domain Name System)
- Output bandwidth limit configurable

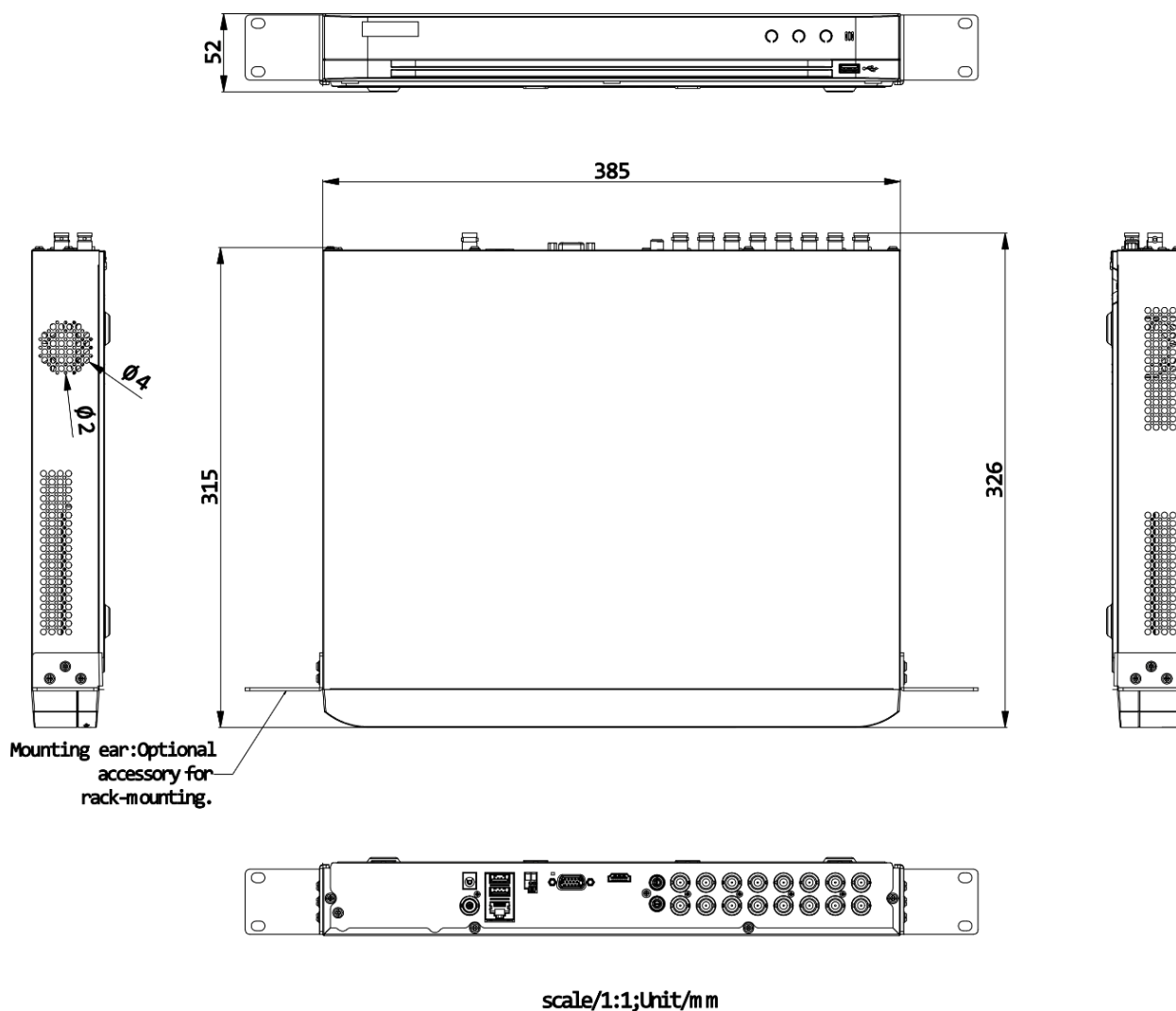
## ▪ Specification

| Facial Recognition           |                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Face Picture Library         | Up to 16 face picture libraries;<br>HDD damage will not cause data loss in the face picture library, because the library has been backed up by HDD and flash.                                                                                                |
| Face Picture Comparison      | 4-ch face picture comparison alarm (HD analog camera)                                                                                                                                                                                                        |
| Motion Detection 2.0         |                                                                                                                                                                                                                                                              |
| Human/Vehicle Analysis       | Deep learning-based motion detection 2.0 is enabled by default for all analog channels, it can classify human and vehicle, and extremely reduce false alarms caused by objects like leaves and lights;<br>Quick search by object or event type is supported; |
| Perimeter Protection         |                                                                                                                                                                                                                                                              |
| Human/Vehicle Analysis       | Up to 8-ch (advanced model)                                                                                                                                                                                                                                  |
| Facial Detection             |                                                                                                                                                                                                                                                              |
| Facial Detection and Capture | Face picture detection, face picture search;<br>4-ch face picture capture                                                                                                                                                                                    |
| Recording                    |                                                                                                                                                                                                                                                              |
| Video Compression            | H.265 Pro+/H.265 Pro/H.265/H.264+/H.264                                                                                                                                                                                                                      |
| Encoding Resolution          | When 1080p Lite mode is not enabled:<br>3K lite/5 MP lite/4 MP lite/1080p/720p/VGA/WD1/4CIF/CIF;<br>When 1080p Lite mode is enabled:<br>3K lite/5 MP lite/4 MP lite/1080p lite/720p lite/VGA/WD1/4CIF/CIF                                                    |

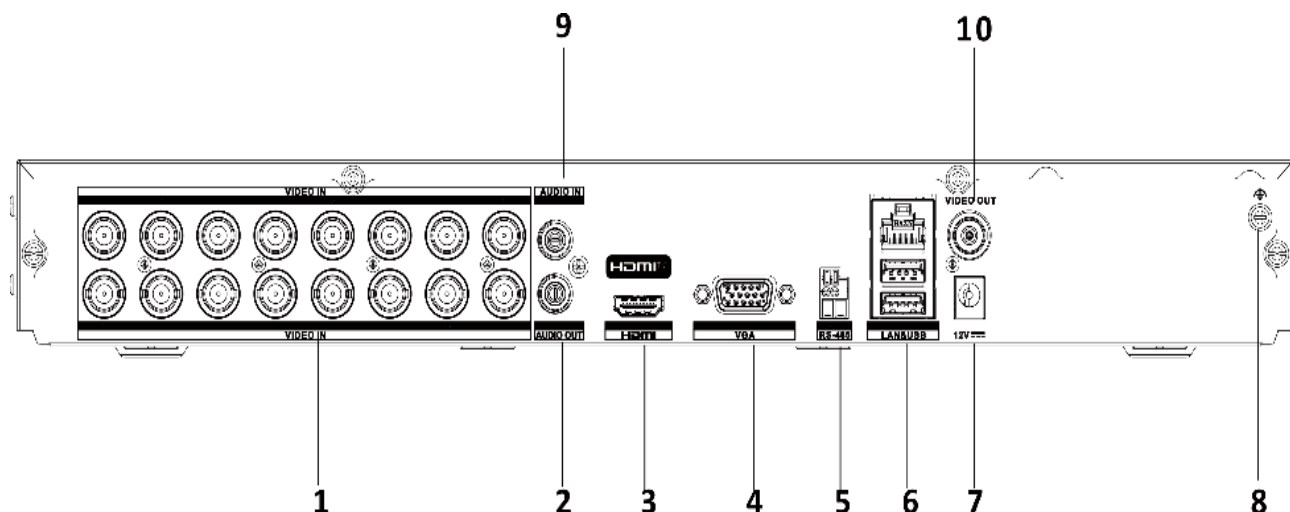
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame Rate             | <p>Main stream:</p> <p>When 1080p Lite mode not enabled:</p> <p>For 3K stream access: 3K lite@12fps;4 MP lite@15fps/1080pLite@20fps;720p/WD1/4CIF/VGA/CIF@20fps</p> <p>For 5 MP stream access: 5 MP lite@12fps;4 MP lite@15fps/1080pLite@20fps;720p/WD1/4CIF/VGA/CIF@20fps</p> <p>For 4 MP stream access: 4 MP lite@15fps/1080pLite@25fps (P)/30fps (N) ;720p/WD1/4CIF/VGA/CIF@25fps (P)/30fps (N)</p> <p>For 1080p stream access: 1080p/720p@15fps; VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)</p> <p>For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)</p> <p>When 1080p Lite mode enabled:</p> <p>3K lite/5 MP lite@12fps;4 MP lite@15fps;1080p lite/720p lite/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)</p> <p>Sub-stream:</p> <p>WD1/4CIF@12fps; CIF@25fps (P)/30fps (N)</p> |
| Video Bitrate          | 32 Kbps to 6 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Dual-stream            | Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Stream Type            | Video, Video & Audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio Compression      | G.711u                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Audio Bitrate          | 64 Kbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Video and Audio</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IP Video Input         | <p>8-ch (up to 24-ch), each up to 4 Mbps</p> <p>Support H.265+/H.265/H.264+/H.264 IP cameras</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Analog Video Input     | <p>16-ch</p> <p>BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| HDMI Output            | 1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CVBS Input             | PAL/NTSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| CVBS Output            | <p>1-ch, BNC (1.0 Vp-p, 75 Ω),</p> <p>resolution: PAL: 704 × 576, NTSC: 704 × 480</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Synchronous Playback   | 16-ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| HDTVI Input            | 3K(2960 × 1665)@20 fps, 5 MP(2560 × 1944)@20 fps, 4 MP(2560 × 1440)@30 fps, 4 MP(2560 × 1440)@25 fps,1080p@30 fps, 1080p@25 fps,720p@30 fps, 720p@25 fps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AHD Input              | 5 MP(2560 × 1944)@20 fps, 4 MP(2560 × 1440)@30 fps, 4 MP(2560 × 1440)@25 fps, 1080p@30 fps, 1080p@25 fps, 720p@30 fps, 720p@25 fps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| VGA Output             | 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                            |                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HDCVI Input                | 5MP(2880 × 1620)@25 fps, 5 MP(2592 × 1944)@20 fps, 4 MP(2560 × 1440)@30 fps, 4 MP(2560 × 1440)@25 fps, 1080p@30 fps, 1080p@25 fps, 720p@30 fps, 720p@25 fps |
| Video Output Mode          | HDMI/VGA simultaneous output                                                                                                                                |
| Audio Output               | 1-ch, RCA (Linear, 1 KΩ)                                                                                                                                    |
| Audio Input                | 1-ch, RCA (2.0 Vp-p, 1 KΩ), 16-ch via coaxial cable                                                                                                         |
| Two-Way Audio              | 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input)                                                                                                    |
| <b>Decoding</b>            |                                                                                                                                                             |
| Decoding Capability        | up to 24-ch 1080P@30fps                                                                                                                                     |
| <b>Network</b>             |                                                                                                                                                             |
| Total Bandwidth            | 256 Mbps                                                                                                                                                    |
| Network Protocol           | TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF, ISUP                                                               |
| Remote Connection          | 128                                                                                                                                                         |
| Network Interface          | 1, RJ45 10/100/1000 Mbps self-adaptive Ethernet interface                                                                                                   |
| <b>Auxiliary Interface</b> |                                                                                                                                                             |
| SATA                       | 2 SATA interface, up to 12 TB capacity for each disk                                                                                                        |
| Serial Interface           | RS-485 (half-duplex)                                                                                                                                        |
| USB Interface              | Front panel: 1 × USB 2.0;<br>Rear panel: 2 × USB 3.0                                                                                                        |
| Alarm In/Out               | N/A (optional to support)                                                                                                                                   |
| <b>General</b>             |                                                                                                                                                             |
| Power Supply               | 12 VDC, 3.3 A                                                                                                                                               |
| Consumption                | ≤40 W                                                                                                                                                       |
| Working Temperature        | -10 °C to 55 °C (14 °F to 131 °F)                                                                                                                           |
| Working Humidity           | 10% to 90%                                                                                                                                                  |
| Dimension (W × D × H)      | 385 × 315 × 52 mm (15.2 × 12.4 × 2.0 inch)                                                                                                                  |
| Weight                     | ≤ 2 kg (4.4 lb)                                                                                                                                             |

## Dimension



## Physical Interface



| No. | Description      | No. | Description                             |
|-----|------------------|-----|-----------------------------------------|
| 1   | Video in         | 6   | LAN network interface and USB interface |
| 2   | Audio out        | 7   | 12 VDC power input                      |
| 3   | HDMI interface   | 8   | GND                                     |
| 4   | VGA interface    | 9   | Audio in                                |
| 5   | RS-485 interface | 10  | Video out                               |

## Available Model

iDS-7216HQHI-M2/XT

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