

# TURBO ACUSENSE DVR

## Key Feature

- Deep learning-based motion detection 2.0 for all analog channels
- Deep learning-based perimeter protection
- H.265 Pro+/H.265 Pro/H.265/H.264+/H.264 video compression
- HDTVI/AHD/CVI/CVBS/IP video inputs
- Audio via coaxial cable
- Up to 8/16/32-ch IP camera inputs (up to 8 MP)
- Up to 10 TB capacity per HDD



## Compression and Recording

- H.265 Pro+ video compression improves encoding efficiency, and reduces data storage costs
- Recording at up to 8 MP resolution

## Storage and Playback

- 2 SATA interfaces
- Smart search for efficient playback
- Support the third party cloud storage

## Smart Function

- Deep learning-based motion detection, and perimeter protection (line crossing and intrusion detection)
- Support multiple VCA (Video Content Analytics) events for both analog and smart IP cameras

## Network & Ethernet Access

- Compatible with major Wi-Fi dongle products in the market
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Output bandwidth limit configurable

## Specification

<b>Model</b>			
<b>Motion Detection 2.0<sup>1</sup></b>			
<b>Human/Vehicle Analysis</b>	<p>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;</p> <p>Quick search by object or event type is supported;</p>		
<b>Perimeter Protection<sup>1</sup></b>			
<b>Human/Vehicle Analysis</b>	Up to 4-ch		
<b>Recording</b>			
<b>Video compression</b>	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264		
<b>Encoding resolution</b>	<p>Main stream:</p> <p>8 MP@8 fps/5 MP@12 fps/3K@12 fps/4 MP@15 fps/8 MP Lite@15 fps/3 MP@18 fps</p> <p>1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)</p> <p><b>*: 8 MP@8 fps is only available for channel 1, 8 MP Lite is only available for channel 2 to channel 4.</b></p>	<p>Main stream:</p> <p>8 MP@8 fps/5 MP@12 fps/3K@12 fps/4 MP@15 fps/3 MP@18 fps</p> <p>1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)</p>	
	<p>Sub-stream:</p> <p>WD1/4CIF/CIF@25 fps (P)/30 fps (N)</p>		
<b>Video bit rate</b>	32 Kbps to 10 Mbps		
<b>Dual stream</b>	Support		
<b>Stream type</b>	Video, Video & Audio		
<b>Audio compression</b>	G.711u		
<b>Audio bit rate</b>	64 Kbps		
<b>Video and Audio</b>			
<b>IP video input<sup>2</sup></b>	2-ch (up to 6-ch)	4-ch (up to 12-ch)	8-ch (up to 24-ch)
	Enhanced IP mode on: 4-ch (up to 8-ch), each up to 4 Mbps	Enhanced IP mode on: 8-ch (up to 16-ch), each up to 4 Mbps	Enhanced IP mode on: 16-ch (up to 32-ch), each up to 4 Mbps
	<p>Up to 8 MP resolution</p> <p>Support H.265+/H.265/H.264+/H.264 IP cameras</p>		
<b>Analog video input</b>	4-ch	8-ch	16-ch
	BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection		
<b>HDTV I input</b>	8 MP@15 fps, 5 MP@20 fps, 3K@20 fps, 4 MP@30 fps, 4 MP@25 fps, 3 MP@18 fps, 1080p@30 fps, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps	8 MP@15 fps, 5 MP@20 fps, 3K@20 fps, 4 MP@30 fps, 4 MP@25 fps, 3 MP@18 fps, 1080p@30 fps, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps	
	5 MP, 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps		
<b>AHD input</b>	5 MP, 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps		

<b>HDCVI input</b>	4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps		
<b>CVBS input</b>	PAL/NTSC		
<b>CVBS output</b>	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
<b>VGA output</b>	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz HDMI/VGA simultaneous output		
<b>HDMI output</b>	1-ch, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz HDMI/VGA simultaneous output	1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz HDMI/VGA simultaneous output	
<b>Audio input<sup>3</sup></b>	4-ch RCA (2.0 Vp-p, 1 KΩ) 4-ch via coaxial cable	8-ch via coaxial cable	16-ch via coaxial cable
<b>Audio output</b>	1-ch, RCA (Linear, 1 KΩ)		
<b>Two-way audio</b>	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the audio input)		
<b>Synchronous playback</b>	4-ch	8-ch	16-ch
<b>Network</b>			
<b>Remote connection</b>	32	64	128
<b>Network protocol</b>	TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF		
<b>Network interface</b>	1, RJ45 10/100 Mbps self-adaptive Ethernet interface	1, RJ45 10/100/1000 Mbps self-adaptive Ethernet interface	
<b>Wi-Fi</b>	Connectable to Wi-Fi network by Wi-Fi dongle through USB interface		
<b>Auxiliary interface</b>			
<b>SATA</b>	2 SATA interfaces		
<b>Capacity</b>	Up to 10 TB capacity for each disk		
<b>Serial interface</b>	RS-485 (half-duplex)		
<b>USB interface</b>	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 3.0	
<b>Alarm in/out<sup>3</sup></b>	4 in/1 out	8 in/4 out	16 in/4 out
<b>General</b>			
<b>Power supply</b>	12 VDC, 2.3 A	12 VDC, 2.8 A	12 VDC, 5 A
<b>Consumption (without HDD)</b>	≤ 10 W	≤ 15 W	≤ 19 W
<b>Working temperature</b>	-10 °C to +55 °C (+14 °F to +131 °F)		
<b>Working humidity</b>	10% to 90%		
<b>Dimension (W × D × H)</b>	380 × 320 × 48 mm (15.0 × 12.6 × 1.9 inch)		
<b>Weight (without HDD)</b>	≤ 1.16 kg (2.6 lb)	≤ 1.78 kg (3.9 lb)	≤ 2.1 kg (4.6 lb)

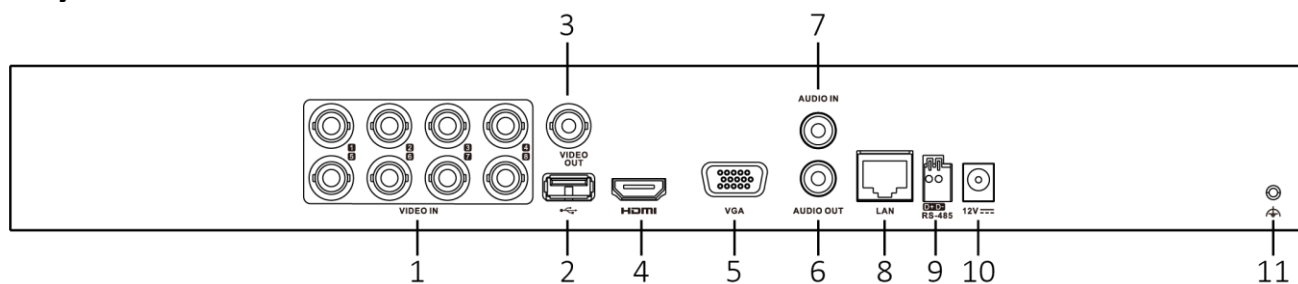
**Note:**

1: Motion detection 2.0 and perimeter protection cannot be enabled at the same time. Enable one function will make the other one unavailable.

2: Enhanced IP mode might be conflicted with smart events (face picture comparison, motion detection 2.0 and perimeter protection) or other functions, please refer to the user manual for details.

3: The number of audio inputs and alarm in/out can be optional. The tag on the package will describe audio input and alarm in/out parameters. For example, "4A+8/4ALM" means your device has 4 audio inputs, 8 alarm inputs and 4 alarm outputs. If your device only has 1 audio input, the tag may not describe it.

## Physical Interface



\*: The rear panel of iDS-7204HUHI-M2/S and iDS-7216HUHI-M2/S provide 4 or 16 video input interfaces.

No.	Description	No.	Description
1	VIDEO IN	7	AUDIO IN, RCA connector
2	USB interface	8	LAN network interface
3	VIDEO OUT	9	RS-485 serial interface
4	HDMI interface	10	12 VDC power input
5	VGA interface	11	GND
6	AUDIO OUT, RCA connector		