

iDS-7204HQHI-M1/S **TURBO ACUSENSE DVR**

Key Feature

- 4 channels and 1 HDD 1U AcuSense DVR
- False alarm reduction through human and vehicle target classification based on deep learning
- Efficient H.265 pro+ compression technology
- Encoding ability up to 1080p @ 15 fps
- 5 signals input adaptively (HDTVI/AHD/CVI/CVBS/IP)
- Up to 6 network cameras can be connected.



















Compression and Recording

- H.265 Pro+ video compression improves encoding efficiency, and reduces data storage costs
- Full channel recording at up to 1080p resolution

Storage and Playback

• Smart search for efficient playback

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

Motion Detection 2.0		
	Deep learning-based motion detection 2.0 is enabled by default for all analog channels,	
Human/Vehicle Analysis	it can classify human and vehicle, and extremely reduce false alarms caused by objects	
	like leaves and lights;	
	Quick search by object or event type is supported;	
Perimeter Protection		
Human/Vehicle Analysis	Up to 2-ch	
Facial Detection		
Facial Detection and Capture	Face picture detection, face picture search	
Recording		
Video Compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264	
	When 1080p Lite mode is not enabled:	
Encoding Posalution	4 MP Lite/3 MP/1080p/720p/VGA/WD1/4CIF/CIF;	
Encoding Resolution	When 1080p Lite mode is enabled:	
	4 MP Lite/1080p Lite/720p Lite/VGA/WD1/4CIF/CIF	
	Main stream:	
	When 1080p Lite mode not enabled:	
	For 4 MP stream access: 4 MP lite@15 fps; 1080p lite/720p/WD1/4CIF/VGA/CIF@25	
	fps (P)/30 fps (N)	
	For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@15 fps	
	For 1080p stream access: 1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30	
Frame Rate	fps (N)	
	For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
	When 1080p Lite mode enabled:	
	4 MP lite/3 MP@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps	
	(N)	
	Sub-stream:	
	WD1/4CIF@12 fps; CIF@25 fps (P)/30 fps (N)	
Video Bitrate	32 Kbps to 6 Mbps	
Dual-stream	Support	
Stream Type	Video, Video & Audio	
Audio Compression	G.711u	
Audio Bitrate	64 Kbps	



2-ch (up to 6-ch), each up to 4 Mbps Support H.265+/H.265/H.264+/H.264 IP cameras Analog Video Input 4-ch;BNC Interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, HDMI/VGA simultaneous output CVBS Input PAL/NTSC 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 Synchronous playback 4-ch 4 MP, 3 MP, 1080p30, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps *: The 3 MP signal input is only available for channel 1 of IDS-7204HQHI- M1/S, for channel 1/2 of IDS-7208HQHI-M1/S, and for channel 1/2/3/4 of IDS- 7216HQHI-M1/S. AHD Input 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps VGA Output 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz HDCVI Input 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps Audio Output 1-ch, RCA (Linear, 1 KQ) Audio Input 1-ch, RCA (2.0 Vp-p, 1 KQ),4-ch via coaxial cable Two-Way Audio 1-ch, RCA (2.0 Vp-p, 1 KQ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPOE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, ISCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Protocol Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface 85-485 (half-duplex) USB Interface 2 × USB 2.0	Video and Audio		
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2-ch (up to 6-ch), each up to 4 Mbps Support H.265+/H.265/H.264+/H.264 IP cameras Analog Video Input 4-ch;BNC Interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, HDMI/VGA simultaneous output CVBS Input PAL/NTSC 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 Synchronous playback 4-ch 4 MP, 3 MP, 1080p30, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps *: The 3 MP signal input is only available for channel 1 of IDS-7204HQHI- M1/S, for channel 1/2 of IDS-7208HQHI-M1/S, and for channel 1/2/3/4 of IDS- 7216HQHI-M1/S. AHD Input 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps VGA Output 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz HDCVI Input 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps Audio Output 1-ch, RCA (Linear, 1 KQ) Audio Input 1-ch, RCA (2.0 Vp-p, 1 KQ),4-ch via coaxial cable Two-Way Audio 1-ch, RCA (2.0 Vp-p, 1 KQ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPOE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, ISCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Protocol Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface 85-485 (half-duplex) USB Interface 2 × USB 2.0	IP Video Input	Up to 6 MP resolution	
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HDCVI Input 4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps Audio Output 1-ch, RCA (Linear, 1 KΩ) Audio Input 1-ch, RCA (2.0 Vp-p, 1 KΩ),4-ch via coaxial cable Two-Way Audio 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, ISCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface USB Interface 2 × USB 2.0	AHD Input	4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps	
Audio Output 1-ch, RCA (Linear, 1 KΩ) Audio Input 1-ch, RCA (2.0 Vp-p, 1 KΩ),4-ch via coaxial cable Two-Way Audio 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	VGA Output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz	
Audio Input 1-ch, RCA (2.0 Vp-p, 1 KΩ),4-ch via coaxial cable 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	HDCVI Input	4 MP, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps	
Two-Way Audio 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input) Network Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Audio Output	1-ch, RCA (Linear, 1 KΩ)	
Network Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Audio Input	1-ch, RCA (2.0 Vp-p, 1 K Ω),4-ch via coaxial cable	
Total Bandwidth 72 Mbps TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 K Ω) (using the first audio input)	
TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Network		
Network Protocol ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Total Bandwidth	72 Mbps	
ONVIF Remote Connection 32 Network Interface 1, RJ45 10M/100M self-adaptive Ethernet interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Network Protocol	TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS,	
Network Interface Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Network Protocol	ONVIF	
Auxiliary Interface SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Remote Connection	32	
SATA 1 SATA interface Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Network Interface	1, RJ45 10M/100M self-adaptive Ethernet interface	
Capacity Up to 10 TB capacity for each disk Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	Auxiliary Interface		
Serial Interface RS-485 (half-duplex) USB Interface 2 × USB 2.0	SATA	1 SATA interface	
USB Interface 2 × USB 2.0	Capacity	Up to 10 TB capacity for each disk	
	Serial Interface	RS-485 (half-duplex)	
Alarm In/Out N/A	USB Interface	2 × USB 2.0	
	Alarm In/Out	N/A	



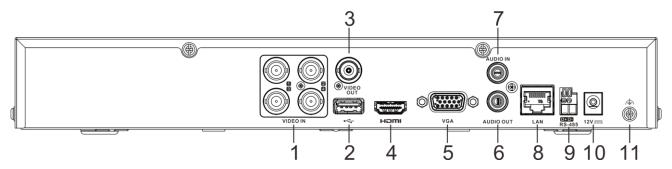
General		
Power Supply	12 VDC, 1.5A	
Consumption	≤ 18 W	
Working Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Working Humidity	10% to 90%	
Dimension (W × D × H)	315 × 242 × 45 mm (12.4 × 9.5 × 1.8 inch)	
Weight	≤ 1.16 kg (2.6 lb)	

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 (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.



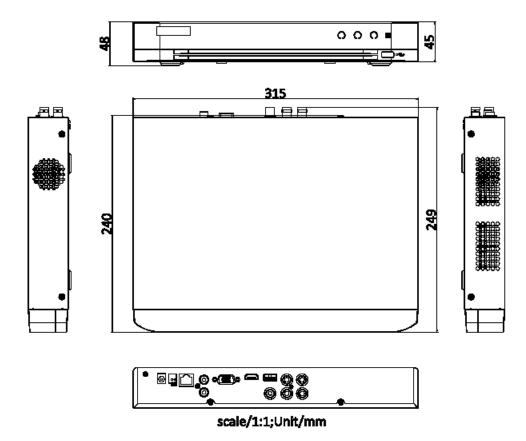
Physical Interface



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		



Dimension



Available Model

iDS-7204HQHI-M1/S

Headquarters

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