

iDS-7204HUHI-M1/P 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/TVBS/IP video inputs
- Audio via coaxial cable
- Up to 8-ch IP camera inputs (up to 8 MP)
- Up to 10 TB capacity per HDD
- Provide power supply to PoC cameras over coaxial cable



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

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

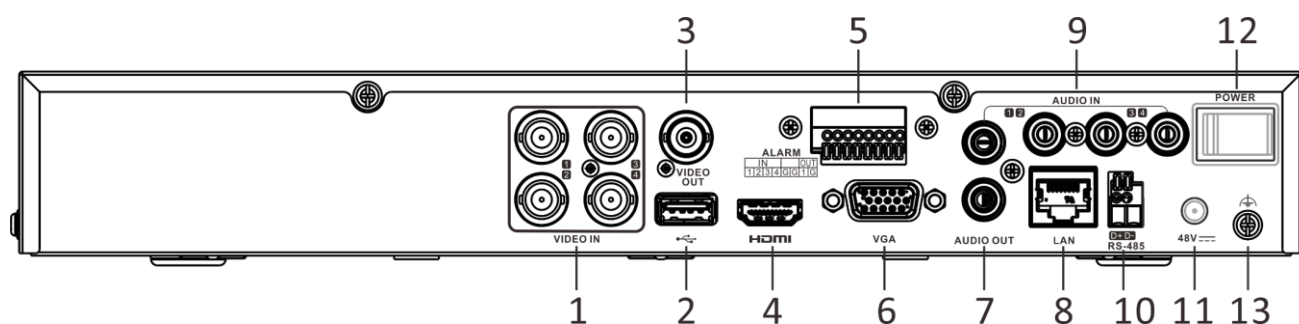
Motion Detection 2.0	
Human/Vehicle Analysis	<p>Deep learning-based motion detection 2.0 is enabled by default for all analog channels, it can classify human and vehicle, and extremely reduce false alarms caused by objects like leaves and lights;</p> <p>Quick search by object or event type is supported;</p>
Perimeter Protection	
Line Crossing Detection/Intrusion Detection	Up to 4-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
Encoding Resolution	8 MP/5 MP/3K/4 MP/3 MP/1080p/720p/WD1/4CIF/VGA/CIF
Frame Rate	<p>Main stream:</p> <p>8 MP@8 fps/3K@12 fps/5 MP@12 fps/4 MP@15 fps/8 MP Lite@15 fps/3 MP@18 fps 1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)</p> <p>*: 8 MP@8 fps is only available for channel 1, 8 MP Lite is only available for channel 2 to channel 4.</p> <p>Sub-stream:</p> <p>WD1/4CIF/CIF@25 fps (P)/30 fps (N)</p>
Video Bitrate	32 Kbps to 10 Mbps
Dual-stream	Support
Stream Type	Video, Video & Audio
Audio Compression	G.711u
Audio Bitrate	64 Kbps
Video and Audio	
IP Video Input	<p>2-ch (up to 6-ch)</p> <p>Enhanced IP mode on: 4-ch (up to 8-ch), each up to 4 Mbps</p> <p>Up to 8 MP resolution</p> <p>Support H.265+/H.265/H.264+/H.264 IP cameras</p>
Analog Video Input	<p>4-ch;</p> <p>BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection</p>
PoC Camera Input	Support Hikvision PoC camera
HDMI Output	1-ch, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz

CVBS Input	PAL/NTSC
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 \times 576, NTSC: 704 \times 480
Synchronous playback	4-ch
HDTVI Input	8 MP@15 fps, 8 MP@12 fps, 3K@20 fps, 5 MP@20 fps, 5 MP@12 fps, 4 MP@30 fps, 4 MP@25 fps, 3 MP@18 fps, 1080p@30 fps, 1080p@25 fps, 720p@30 fps, 720p@25 fps
VGA Output	1-ch, 1920 \times 1080/60Hz, 1280 \times 1024/60Hz, 1280 \times 720/60Hz
AHD Input	5 MP@20 fps, 5 MP@12 fps, 4 MP@30 fps, 4 MP@25 fps, 1080p@30 fps, 1080p@25 fps, 720p@30 fps, 720p@25 fps
HDCVI Input	8 MP@15 fps, 8 MP@12 fps, 5 MP@20 fps, 4 MP@30 fps, 4 MP@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 K Ω)
Audio Input	4-ch, RCA (2.0 Vp-p, 1 K Ω) 4-ch via coaxial cable
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 K Ω) (using the audio input)
Network	
Total Bandwidth	96 Mbps
Wi-Fi	Connectable to Wi-Fi network by Wi-Fi dongle through USB interface
Network Protocol	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	Front panel: 1 \times USB 2.0; Rear panel: 1 \times USB 2.0
Alarm In/Out	4/1
General	
Power Supply	48 VDC, 1.35 A
Consumption	\leq 10 W
Working Temperature	-10 $^{\circ}$ C to +55 $^{\circ}$ C (+14 $^{\circ}$ F to +131 $^{\circ}$ F)
Working Humidity	10% to 90%
Dimension (W \times D \times H)	315 \times 242 \times 45 mm (12.4 \times 9.5 \times 1.8 inch)
Weight	\leq 2.2 kg (without HDD, 4.9 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 and Coaxial Audio In	8	LAN network interface
2	USB interface	9	AUDIO IN, RCA connector
3	VIDEO OUT	10	RS-485 serial interface
4	HDMI interface	11	48 VDC power input
5	ALARM IN/OUT	12	Power switch
6	VGA interface	13	GND
7	AUDIO OUT, RCA connector		

Available Model

iDS-7204HUHI-M1/P

Appendix

AT/AF Mode

With reference to PoE standards, Hikvision has introduced AT and AF mode for PoC to distinguish the power level of PoC cameras. The maximum operating power of AT and AF are 12 W and 6 W respectively. These two modes are not related to IEEE 802.3 IP standard.

PoC Access Capability

PoC Device	Allowed AT/AF Camera Access
4-ch PoC device	4 AT cameras
8-ch PoC device	8 AT cameras
16-ch PoC device	8 AT cameras + 8 AF cameras Or up to 12 AT cameras

16-ch PoC device is connected to 8 AT cameras through 8 random channels rather than fixed ones. The access scenarios of a 16-ch PoC device are listed in the table below:

AT camera access	12	11	10	9	8	N (0 to 7)
AF camera access	0	2	4	6	8	16-N

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