

DS-9000HFI-XT Series HDVR

Introduction:

DS-9000HFI-XT series HDVR (Hybrid Digital Video Recorder) is a new generation recorder developed by Hikvision independently which can both connect analog and network cameras and provide powerful monitoring functionality. Combined with multiple advanced technologies, such as audio and video encoding & decoding technology, embedded system technology, storage technology, network technology and intelligent technology. It can both work alone as a recorder and cooperate with other devices to build a comprehensive surveillance system.

Thanks to these features, the DS-9000HFI-XT series HDVR is widely applied to the surveillance projects of finance, public security, military, education, communication, transportation, etc.

Available Models:

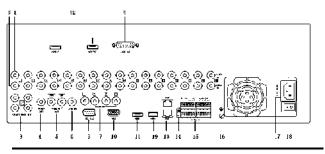
DS-9016HFI-XT

Main Features:

- Pluggable HDD design provides convenient HDD installation and maintenance way;
- Connectable to the third-party network cameras like ACTI, Arecont, AXIS, Brickcom, Bosch, Canon, PANASONIC, Pelco, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO;
- Live view, storage and playback of video at up to 5MP resolution;
- Simultaneous HDMI, VGA and CVBS outputs; HDMI output and VGA output at up to 1920×1080 resolution. And respective live view and playback via VGA and HDMI outputs;
- Configurable redundant recording, holiday recording and capture schedule
- Instant playback for assigned camera during multi-channel live view;
- Support up to 16-ch synchronous playback at 720P resolution; and reverse playback for multi-camera;
- Support frame-extracting recording and playback for analog cameras;
- Support 15 VCA detection types for analog camera 01~04 (line crossing detection, intrusion detection and etc.);
- Support 4 VCA searching types: behavior search, face search, people counting and heat map;
- Smart playback to go through less effective information;
- Smart search for the selected area in the video;
- Customization of tags, searching and playing back by tags;
- Manual video quality diagnostics for analog channels;
- Locking and unlocking record files;
- Support HDD quota and group management; different capacity can be assigned to different cameras under quota mode;
- 16 SATA interfaces and 2 eSATA interfaces for recording and backup;
- Support disk clone;
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system;
- 2 self-adaptive 10M/100M/1000M network interfaces, supporting three working modes: multi-address, load balance and network fault tolerance;
- Support Hikvision DDNS (Dynamic Domain Name System);
- Support Channel-zero encoding to decrease the bandwidth requirement when viewing multiple cameras;
- Network detection function;

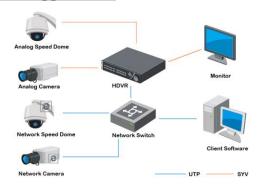
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17	100~240VAC Power Input		
18	Power Switch		
19	USB Interface		

Typical Application:





• Adopt pioneering dual-OS design to ensure the security of system running.



Specifications:

Model		DS-9016HFI-XT
		16-ch
Video/Audio input Video/Audio output	Analog video input	BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive
	IP video input	Up to 32-ch
	Composite video input	Up to 32-ch (Analog video + IP video)
	Audio input	16-ch, Audio 1-4: RCA (2.0 Vp-p, 1 KΩ); Audio 5-16: DB26 connector
	· ·	
	Incoming bandwidth	100 Mbps (200 Mbps when all analog cameras disabled)
	HDMI output	1920 × 1080 / 60 Hz (1080P), 1920 × 1080 / 50 Hz (1080P), 1600 × 1200 / 60 Hz,
		1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz
	VGA output	1920 × 1080 / 60 Hz (1080P), 1600 × 1200 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 /
		60 Hz, 1024 × 768 / 60 Hz
	CVBS output Video loop out	5-ch (1 Main output + 4 Spot output)
		BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
		16-ch
		BNC $(1.0 \text{ Vp-p}, 75 \Omega)$
	Audio output	2-ch, RCA (2.0 Vp-p, 1 KΩ)
	Max. remote connection	128-ch
	Outgoing bandwidth	240 Mbps
	Video compression	H.264
	Encoding resolution Frame rate	Main stream: 4CIF / 2CIF / CIF / QCIF
		Sub-stream: CIF / QCIF
		Main stream: 25 fps (P) / 30 fps (N) Sub-stream: 25 fps (P) / 30 fps (N)
	Video bitrate	32 Kbps ~ 8 Mbps
Encoding/Decoding Parameters	Audio compression	OggVorbis
r ar anneters	Audio bitrate	16 Kbps
	Stream type	Video, Video & Audio
	Dual-stream	Support
	Playback resolution	5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
	Synchronous playback	16-ch
Record	Record/Capture mode	Manual record/capture, Continuous record/capture, Motion detection record/capture, Alarm record/capture, Motion Alarm record/capture, Motion & Alarm record/capture, Event record/capture
	Playback mode	Instant playback, Normal playback, Event playback, Sub-periods playback, Tag playback, Smart playback, External file playback, Picture playback
	Backup mode	Normal backup, Event backup, Picture backup
Network	Protocol	IPv6, NAT, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, etc.
Hard disk	Туре	16 SATA interfaces; 2 eSATA interface
	Capacity	Up to 6 TB capacity for each disk
External interface	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 KΩ)
	Network interface	2; 10M/100M/1000M self-adaptive Ethernet interface
	Serial interface	RS-232, RS-485, Keyboard
	USB port	3 × USB2.0
	Alarm in/out	16/4
General	Power supply	100 ~ 240 VAC, 50 ~ 60 Hz
	Consumption (without hard disk or DVD-R/W)	Max. 45W
	Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
	Working humidity	10%~90%
	Chassis	19-inch rack-mounted 3U chassis
	Dimensions	
	$(W \times D \times H)$	445 × 496 × 146 mm (17.5 × 19.5 × 5.7 in)
	Weight	Approx. 12.5 kg / 27.6 lb (without hard disk or DVD-R/W)



The formula to calculate the incoming bandwidth and the IPC connected is: A = B/(C+D).

A refers to the number of IP camera you connected.



B refers to the value of the incoming bandwidth.

C refers to the bitrate value of the main stream of the connected IPC.

And D refers to the bitrate value of the sub-stream of the connected IPC.

Example: The incoming bandwidth of 8016HWI-ST HDVR is 80Mbps and the IPC to connect is with resolution of 720P (1280*720) / 25 (30) fps. The bitrate for the main stream and sub-stream of the IPC is set as 4Mbps and 1Mbps respectively. In this example, B=80Mbps, C=4Mbps, D=1Mbps and A = B/(C+D) = 80 / (4+1) = 16. So the number of IP cameras can be connected with is 16.