

DS-7600HI-ST Series HDVR

Introduction:

DS-7600HI-ST 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 surveillance. 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. The DS-7600HI-ST series HDVR are widely applied in the areas of finance, public security, military, communication, transportation, education, etc..

Available Models:

DS-7604HI-ST, DS-7608HI-ST, DS-7616HI-ST.

Main Features:

- 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 1920×1080P resolution.
- New GUI and supports starting record with one key;
- Redundant recording, holiday recording and capture schedule configuration;
- Instant playback for assigned camera during multi-channel live view mode;
- Support up to 16-ch synchronous playback at WD1 resolution; and reverse playback for multi-camera;
- Smart search for the selected area in the video.
- Customization of tags, searching and playing back by tags;
- Locking and unlocking record files;
- Support HDD quota and group management; different capacity can be assigned to different cameras under quota mode;
- Provide up to 2 SATA interfaces for record;
- 1 self-adaptive network interfaces.
- Support Hikvision DDNS (Dynamic Domain Name System);
- Support Channel-zero encoding to decrease the bandwidth requirement when viewing multiple cameras.
- Network detection function;
- Adopt pioneering dual-OS design to ensure the security of system running.

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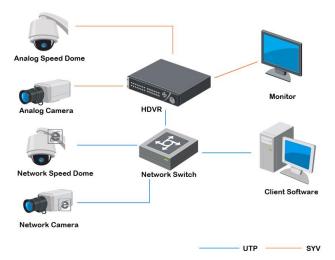
Physical Interfaces:

DS-7600HI-ST



- 1 VIDEO IN
- 2 VIDEO OUT
- (3) AUDIO IN, RCA Connector
- (4) USB Port
- 5 HDMI Interface
- 6 VGA Interface
- (7) AUDIO OUT, RCA Connector(8) LAN Network Interface
- 9 RS-485 Serial Interface
- 12VDC Power Input
- 1) Power Switch
- (12) GND

Typical Application:





Specifications:

Model		DS-7604HI-ST	DS-7608HI-ST	DS-7616HI-ST
		4-ch	8-ch	16-ch
Video/Audio input	Analog video input	BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive		
	IP video input	Up to 8-ch	Up to 16-ch	Up to 32-ch
	Composite video	Up to 8-ch	Up to 16-ch	Up to 32-ch
	input	(Analog video + IP video)	(Analog video + IP video)	(Analog video + IP video)
	Audio input	1-ch	4-ch	(
		RCA (2.0 Vp-p, 1 KΩ)	40.3.0	00.14
Video/Audio output	Incoming bandwidth	20 Mbps	40 Mbps	80 Mbps
	HDMI / 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	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
	Audio output	1-ch, RCA (Linear, 1 KΩ)		
	Max. remote connection	128-ch		
	Outgoing bandwidth	40 Mbps	240 Mbps	240 Mbps
Encoding/Decoding Parameters	Video compression	H.264		
	Encoding resolution	Sub-stream: CIF / QCIF Main stream: 25 fns (P) / 30 fns (N)		
	Frame rate			
	Video bitrate	32 Kbps ~ 3 Mbps		
	Audio compression	G.711 OggVorbis		
	Audio bitrate	64 Kbps		
	Stream type	Video, Video & Audio		
	Dual-stream	Support		
	Playback resolution	5MP/3MP/1080p/UXGA/720P/WD1/4CIF/VGA/DCIF/2CIF/CIF/QCIF		
	Synchronous playback	8-ch	16-ch	16-ch
Record	Record/Capture mode	Manual recording/capture, Continuous recording/capture, Motion detection record/capture, Alarm record/capture, Motion Alarm record/capture, Motion & Alarm record/capture		
	Playback mode	Instant playback, Normal playback, Event playback, Tag playback, Picture playback (not available for 7604HI-ST)		
	Backup mode	Normal backup, Event backup, Picture backup (not available for 7604HI-ST)		
Network	Protocol	IPv6, HTTPS, UPnP™, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, etc.		
Hard disk	Туре	1 SATA interface 2 SATA interfaces		
	Capacity Two way audio	Up to 4 TB capacity for each disk 1-ch, RCA (2.0 Vp-p, 1 KΩ) (Using audio input)		
External interface	Two-way audio	1		
	Network interface	10M/100M self-adaptive	10M/100M/1000M self-adaptiv	ve Ethernet interface
	<u> </u>	Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB port Alarm in/out	2 × USB2.0 Optional		
General	Power supply	12 VDC		
	Consumption			
	(without hard disk)	Max. 10W		
	Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)		
	Working humidity	10%~90%		
	Chassis Dimensions	1U chassis	1U chassis	
	$(W \times D \times H)$	$\begin{array}{c} 315 \times 230 \times 45 \text{ mm } (12.4 \times \\ 9.0 \times 1.8 \text{ in}) \end{array} \qquad 445 \times 290 \times 45 \text{ mm } (17.5 \times 11.4 \times 1.8 \text{ in}) \end{array}$		
	Weight	Approx. 2 kg / 4.4 lb (without	hard disk)	



Note:

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 7616HI-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.