DS-9100HFI-RT Series DVR

Introduction:

DS-9100HFI-RT series DVR (Digital Video Recorder) is a new generation recorder developed by Hikvision independently which can connect analog cameras and provide powerful monitoring functionality. Combined with multiple advanced technologies, such as audio and video encoding & decoding technology, embedded system technology, storage technology, RAID storage scheme, 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-9100HFI-RT series DVR is widely applied to the surveillance projects of finance, public security, military, education, communication, transportation, etc.
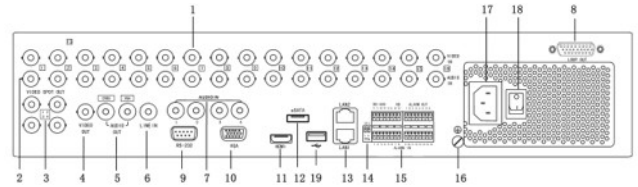
Available Models:

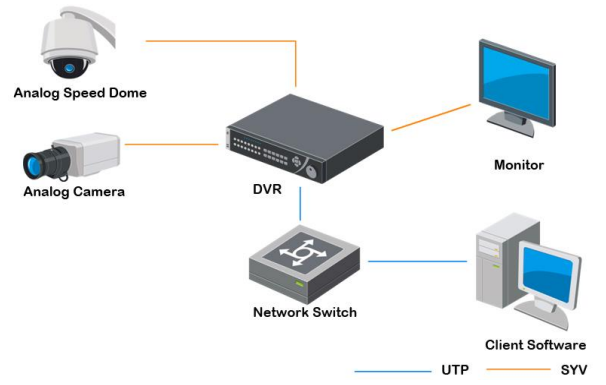DS-9104HFI-RT, DS-9108HFI-RT, DS-9116HFI-RT

Main Features:

- Pluggable HDD design provides convenient HDD installation and maintenance way;
- 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;
- 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 4CIF resolution; and reverse playback for multi-camera;
- Support frame-extracting recording and playback;
- Support 15 VCA detection types for analog camera 01~04 (line crossing detection, intrusion detection and etc.);
- 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;
- Locking and unlocking record files;
- Support HDD quota and group management; different capacity can be assigned to different cameras under quota mode;
- Up to 8 SATA interfaces and 1 eSATA interface for recording and backup;
- Hot-swappable HDD supporting RAID0, RAID1, RAID5, RAID10. And 8 virtual disks can be configured;
- Rebuild array automatically with hot spare disk;
- 2 self-adaptive 10M/100M/1000M network interfaces, and 3 working modes are configurable: multi-address, load balance, 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;
- Adopt pioneering dual-OS design to ensure the security of system running.

Physical Interfaces:

Index	Name
1	VIDEO IN
2	LOOP OUT
3	VIDEO SPOT OUT
4	VIDEO OUT
5	CVBS AUDIO OUT, VGA AUDIO OUT
6	LINE IN
7	AUDIO IN, RCA Connector
8	AUDIO IN, DB26 Connector (not available for DS-9104HFI-RT)
9	RS-232 Serial Interface
10	VGA Interface
11	HDMI Interface
12	eSATA Interface
13	LAN1, LAN2 Network Interface
14	Termination Switch
15	RS-485 Serial Interface, Keyboard Interface, ALARM IN, ALARM OUT
16	GND
17	100~240VAC Power Input
18	Power Switch
19	USB Interface

Typical Application:

Analog Speed Dome

Analog Camera

DVR

Monitor

Network Switch

Client Software

UTP   SYV

Specifications:

Model		DS-9104HFI-RT	DS-9108HFI-RT	DS-9116HFI-RT
Video/Audio input	**Analog video input**	4-ch	8-ch	16-ch
		BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive		
	Audio input	4-ch, RCA (2.0 Vp-p, 1 KΩ)	8-ch, Audio 1-4: RCA (2.0 Vp-p, 1 KΩ) Audio 5-8: DB26 connector	16-ch, Audio 1-4: RCA (2.0 Vp-p, 1 KΩ) Audio 5-16: DB26 connector
Video/Audio output	**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	2-ch (1 Main output + 1 Spot output)	5-ch (1 Main output + 4 Spot outputs)	5-ch (1 Main output + 4 Spot outputs)
		BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 ×576, NTSC: 704 ×480		
	Video loop out	4-ch	8-ch	16-ch
		BNC (1.0 Vp-p, 75 Ω)		
	Audio output	2-ch, RCA (2.0 Vp-p, 1 KΩ)		
	Max. remote connection	128-ch		
	Outgoing bandwidth	240 Mbps	240 Mbps	240 Mbps
Encoding/Decoding Parameters	**Video compression**	H.264		
	Encoding resolution	Main stream: 4CIF / 2CIF / CIF / QCIF		
		Sub-stream: CIF / QCIF		
	Frame rate	Main stream: 25 fps (P) / 30 fps (N)		
		Sub-stream: 25 fps (P) / 30 fps (N)		
	Video bitrate	32 Kbps ~ 8 Mbps		
	Audio compression	OggVorbis		
	Audio bitrate	16 Kbps		
	Stream type	Video, Video & Audio		
	Dual-stream	Support		
	Playback resolution	4CIF / 2CIF / CIF / QCIF		
	Synchronous playback	4-ch	8-ch	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	**Type**	8 SATA interfaces; 1 eSATA interface		
	Capacity	Up to 6 TB capacity for each disk		
Disk array	**Array type**	RAID0, RAID1, RAID5, RAID10		
	Number of array	8		
	Number of virtual disk	8		
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	4 / 2	16 / 4	16 / 4
General	**Power supply**	100 ~ 240 VAC, 50 ~ 60 Hz		
	Consumption (without hard disk or DVD-R/W)	Max. 35W	Max. 40W	Max. 45W
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)		

	Working humidity	10%~90%
	Chassis	19-inch rack-mounted 2U chassis
	Dimensions (W ×D ×H)	445 ×470 ×90 mm (17.5 ×18.5 ×3.5 in)
	Weight	Approx. 8 kg / 17.6 lb (without hard disk or DVD-R/W)