

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.

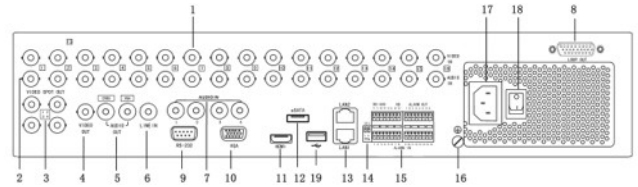
Available Models:

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

Main Features:

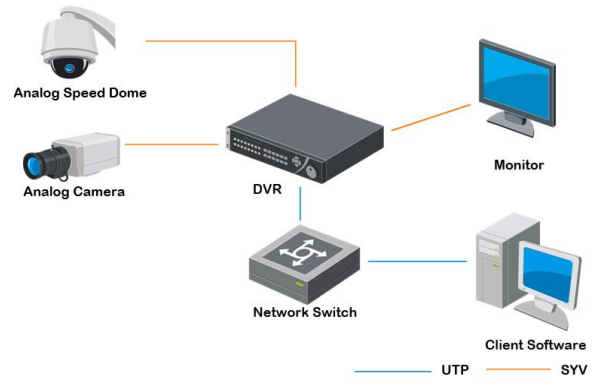
- Pluggable HDD design provides convenient HDD installation and maintenance way;
- Simultaneous HDMI, VGA and CVBS outputs; HDMI output and VGA output at up to 1920×1080 resolution. And respective live view and playback via VGA and HDMI outputs;
- Redundant recording, holiday recording and capture schedule 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:



Specifications:

| Model | | DS-9104HFI-RT | DS-9108HFI-RT | DS-9116HFI-RT | |
|------------------------------|--|---|--|--|--|
| Video/Audio input | Analog video input | 4-ch BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive | 8-ch | 16-ch | |
| | 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 °C ~ +55 °C (14 °F ~ 131 °F) | | | |

| | | |
|--|-------------------------------|---|
| | 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) |