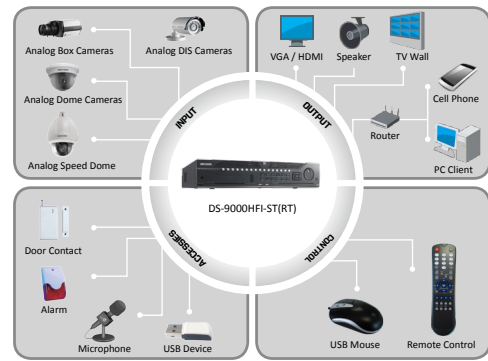


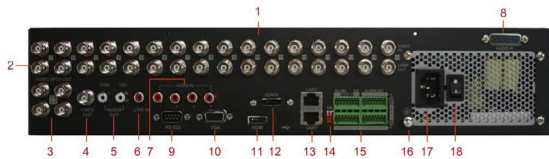
## DS-9004/9008/9016HFI-ST(RT) Embedded Hybrid DVR



### Key features

- H.264 video compression
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920×1080P resolution
- 8/16-ch synchronous playback
- HDD quota and group management
- Dual Gigabit network interfaces
- RAID 0,1,5,10 supported(DS-9004/08/16HFI-RT)

### Rear Panel of DS-9016HFI-ST(RT)



1. Video in
2. Video 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-9004HFI-ST)
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

### Specifications

|   | DS-9004HFI-ST(RT)   | DS-9008HFI-ST(RT)   | DS-9016HFI-ST(RT)  |
|---|---|---|--|
| <b>Video/Audio input</b>                                    |   |   |  |
| Video compression   | H.264   |   |  |
| Analog Video input  | 4-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive  | 8-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive                    | 16-ch, BNC (1.0 Vp-p, 75 Ω), PAL / NTSC self-adaptive                  |
| IP Video input  | 8-ch  | 16-ch   | 32-ch  |
| Composited video input                                      | Up to 8-ch (Analog video + IP video)  | Up to 16-ch (Analog video + IP video)                                   | Up to 32-ch (Analog video + IP video)                                  |
| Audio compression   | OggVorbis   |   |  |
| Audio input   | 4-ch, RCA (2.0 Vp-p, 1 kΩ)  | 8-ch, Audio 1-4: RCA (2.0 Vp-p, 1 kΩ)<br>Audio 5-8: DB26 connector      | 16-ch, Audio 1-4: RCA (2.0 Vp-p, 1 kΩ)<br>Audio 5-16: DB26 connector   |
| Two-way audio input   | 1-ch, RCA (2.0 Vp-p, 1 kΩ)  |   |  |
| <b>Video/Audio output</b>                                   |   |   |  |
| HDMI output   | 1-ch, resolution: 1920 × 1080P /60 Hz , 1920 × 1080P / 50 Hz, 1600 × 1200 /60 Hz, 1280 × 1024 /60 Hz, 1280 × 720 /60 Hz, 1024 × 768 /60 Hz  |   |  |
| VGA output  | 1-ch, resolution: 1920 × 1080P /60 Hz , 1600 × 1200 /60 Hz, 1280 × 1024 /60 Hz, 1280 × 720 /60 Hz, 1024 × 768 /60 Hz  |   |  |
| Playback resolution   | 5Megapixels / 3Megapixels / 1080P / UXGA / 720P / 4CIF / VGA / DCIF / 2CIF / CIF / QCIF   |   |  |
| CVBS output   | 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480   |   |  |
| Video spot output   | 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480   | 4-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 | 4-ch, BNC(1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 |
| Video loop out  | 4-ch, BNC (1.0 Vp-p, 75 Ω)  | 8-ch, BNC (1.0 Vp-p, 75 Ω)  | 16-ch, BNC (1.0 Vp-p, 75 Ω)  |
| Encoding resolution   | 4CIF / 2CIF / CIF / QCIF  |   |  |
| Frame rate  | 25fps (P) / 30fps (N)   |   |  |
| Video bit rate  | 32 Kbps-8192 Kbps, or user defined (Max. 8192 Kbps)   |   |  |
| Audio output  | 2-ch, RCA (2.0 Vp-p, 1 kΩ)  |   |  |
| Audio bit rate  | 16 Kbps   |   |  |
| Dual-stream   | Support (Sub-stream at CIF / QCIF: 25 fps (P) / 30 fps (N))   |   |  |
| Stream type   | Video, Video & Audio  |   |  |
| Synchronous playback  | 8-ch  | 16-ch   | 16-ch  |
| <b>Hard disk</b>  |   |   |  |
| SATA  | Up to 8 SATA interfaces   |   |  |
| eSATA   | 1 eSATA interface   |   |  |
| Capacity  | Up to 4TB capacity for each disk  |   |  |
| <b>Disk array (DS-9004/9008/9016NI-RT series supported)</b> |   |   |  |
| Array type  | RAID0, RAID1, RAID5, RAID10   |   |  |
| Number of array   | 4   |   |  |
| Number of virtual disk                                      | 8   |   |  |
| <b>External interface</b>                                   |   |   |  |
| Network interface   | 2, RJ45 10M / 100M / 1000M Ethernet interface   |   |  |
| Serial interface  | 1 RS-232 interface (for parameters configuration, maintenance, transparent channel);1 RS-485 interface (for PTZ control);1 RS-485 keyboard interface (for special keyboard control) |   |  |
| USB interface   | 3, USB2.0   |   |  |
| Alarm in  | 4   | 16  | 16   |
| Alarm out   | 2   | 4   | 4  |
| <b>General</b>  |   |   |  |
| Power supply  | 100 ~ 240 VAC, 6.3A, 50 ~ 60Hz  |   |  |
| Consumption   | ≤ 35 W  | ≤ 40 W  | ≤ 45 W   |
| Working temperature   | -10 °C ~ +55 °C   |   |  |
| Working humidity  | 10% ~ 90%   |   |  |
| Chassis   | 19-inch rack-mounted 2U chassis   |   |  |
| Dimensions (W × D × H)                                      | 445 × 470 × 90 mm   |   |  |
| Weight  | ≤ 8kg (without hard disk or DVD-R/W)  |   |  |