

HBE SATA SERIES

Full D1 Standalone DVR



Model

DH-DVR0404HBEH-S	4 channel loop matrix and audio/video model
DH-DVR0804HBEH-S	8 channel loop matrix and audio/video model
DH-DVR1604HBEH-S	16 channel loop matrix and audio/video model
DH-DVR0404HBE-S	4 channel audio/video basic model
DH-DVR0804HBE-S	8 channel audio/video basic model
DH-DVR1604HBE-S	16 channel audio/video basic model
DH-DVR1604HBEL-S	16 channel loop and matrix combination model

Features

- H.264 compression algorithm ideal for standalone DVR
- Realtime live display up to 16 cameras, 400/480 fps recording for 4CIF, 2CIF&CIF
- Full D1 realtime recording and playback for each channel
- Pentaplex function: live, recording, playback, backup & remote access
- Dual encoding streams support, flexible for network transmission
- 8 HDDs supported & CD-RW/DVD-RW supported
- Multiple control methods: Front panel, IR remote controller, DAHUA keyboard, USB mouse and network keyboard
- Smart video detection: motion detection, camera blank, video loss
- Smart camera settings: privacy masking, camera lock, color setting, and title display
- Pan Tilt Zoom and Speed Dome Control: more than 60 protocols supported, preset, scan, auto pan, auto tour, pattern, auxiliary function supported. And with Dahua Speed Dome, 3D intelligent positioning function supported
- Easy backup methods: USB devices, CD-RW/DVD-RW & network download
- Alarm triggering screen tips, buzzer, PTZ preset, e-mail, FTP upload
- Smart HDDs Management: non-working HDD hibernation, HDD faulty alarm, Raid function
- Powerful network software: built-in web server, multi-DVR client & CMS. Networking access for remote live viewing, recording, playback, setting, system status, event log, e-mail & ftp function

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Specifications

System																
Main Processor	High performance embedded microprocessor															
Operating System	Embedded LINUX															
System Resources	Pentaplex function: live, recording, playback, backup & remote access															
User Interface	GUI, on-screen menu tips															
Control Device	Front panel, USB mouse, DAHUA keyboard, IR remote control, network keyboard															
Input Method	Numeral/Character/Denotation															
System Status	HDD status, data stream statistics, log record, bios version, on-line user etc.															
Video																
Video Input	4/8/16 channel, BNC, 1.0Vp-p, 75Ω, looping(optional)															
Video Output	2 channel TV output, BNC, 1.0Vp-p, 75Ω, 1 VGA output, matrix output(optional)															
Video Standards	PAL(625Line, 50f/s), NTSC(525Line, 60f/s)															
Video Compression	H.264															
Video Resolution	<table border="1"> <thead> <tr> <th>Format</th> <th>NTSC</th> <th>PAL</th> </tr> </thead> <tbody> <tr> <td>D1(4CIF)</td> <td>704 X 480</td> <td>704 X 576</td> </tr> <tr> <td>2CIF</td> <td>704 X 240</td> <td>704 X 288</td> </tr> <tr> <td>CIF</td> <td>352 X 240</td> <td>352 X 288</td> </tr> <tr> <td>QCIF</td> <td>176 X 120</td> <td>176 X 144</td> </tr> </tbody> </table>	Format	NTSC	PAL	D1(4CIF)	704 X 480	704 X 576	2CIF	704 X 240	704 X 288	CIF	352 X 240	352 X 288	QCIF	176 X 120	176 X 144
Format	NTSC	PAL														
D1(4CIF)	704 X 480	704 X 576														
2CIF	704 X 240	704 X 288														
CIF	352 X 240	352 X 288														
QCIF	176 X 120	176 X 144														
Video Recording	D1/2CIF/CIF/QCIF: PAL 1f/s-25f/s NTSC 1f/s-30f/s;															
Video Display Split	Full and multiple screen display, 1 / 4 / 8 / 9 / 16															
Tour Display	Support															
Image Quality	1~6 level(level 6 is the best)															
Privacy Masking	8 self-defined four-sided zones for privacy masking for each camera															
Camera Lock	Camera locked for users															
Camera Adjustment	Adjust color according to different time period															
Video Information	Camera title, time, video loss, camera lock, motion detection, recording															
TV Output Adjustment	Adjust TV output color & display zone															
Audio																
Audio Input	4/8/16 channel, RCA, 200-2800mV, 30KΩ															
Bidirectional Talk Input	1 channel, RCA, 200-2800mV, 30KΩ															
Audio Output	1 channel, RCA, 200-3000mv, 5KΩ															
Audio Compression	G.711															
Video Detection & Alarm																
Motion Detection	Zones: 396 (22*18) detection zones Sensitivity: 1~6 (level 6 is highest) Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload															
Video Loss	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload															

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Camera Blank	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Alarm Input	16/16/16 channel, programmable, ground, manual open/closed Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Relay output	6/6/6 channel, 30VDC, 1A, NO/NC, form-C
Hard Disk	
Hard Disk	8 SATA ports, 8 HDDs supported
Space Occupation	Audio: 14.4MB/H Video: 56~500MB/H
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid(Redundancy)
Record, Playback & Backup	
Recording Mode	Manual, continuous, video detection (including motion detection, camera blank, video loss), Alarm
Recording Priority	Manual >Alarm >Video Detection >Continuous
Recording Interval	1 to 120 minutes (default: 60 minutes), Pre-record up to 30 seconds, Post-record up to 5 minutes
Overwrite Mode	Support
Raid Function	Support
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)
Playback	2 channel playback simultaneously, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection
Digital Zoom	Selected zone can zoom into full screen during playback
Backup Mode	Flash disk/ USB HDD/ USB CD/DVD-RW/ built-in SATA Burner/ Network download
Network	
Interface	RJ-45 Port (10/100M)
Network Functions	TCP/IP, DHCP, PPPOE, DDNS, E-mail, FTP, IP Filter
Remote operation	Monitor, PTZ control, playback, system setting, file download, log information
Auxiliary Interface	
USB Interface	2 ports, 1 for mouse control, 1 for backup
RS232	DAHUA keyboard, PC communication
RS485	PTZ control
Environmental	
Power Supply	220V 50Hz / 110V 60Hz
Power consumption	25W/30W/40W
Working Temperature	-10°C ~+55°C
Working Humidity	10%~90%
Atmosphere Pressure	86kpa~106kpa
Dimension	2U, 440mmx460mmx89mm (W*D*H)
Weight	7KG(without HDD)
Mounting	Desktop or rack

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Rear Panel

DVR0404HBEH-S



DVR0804GBEH-S



DVR1604HBEH-S



DVR0404HBE-S



DVR0804HBE-S



DVR1604HBE-S

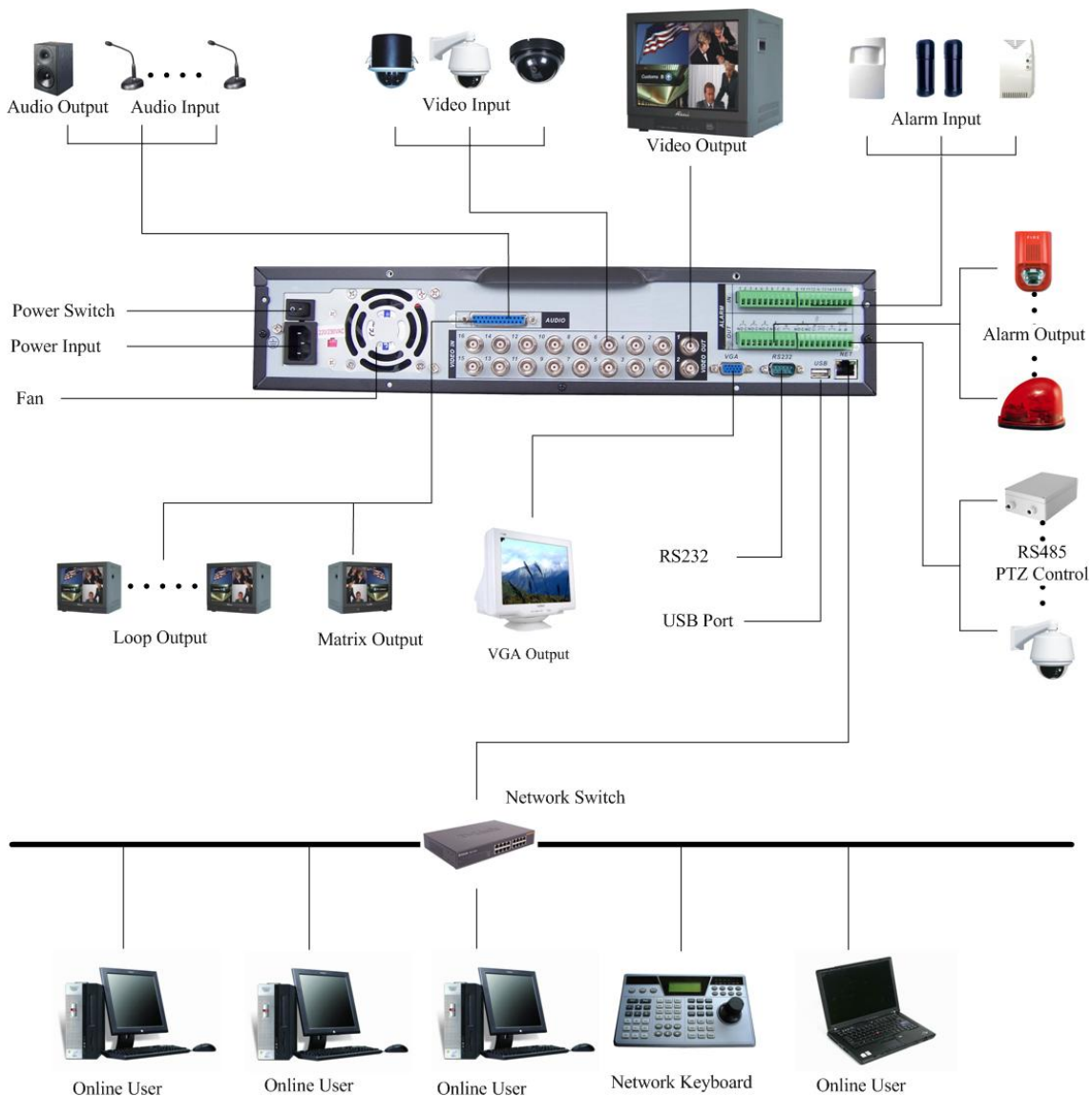
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DVR1604HBEL-S



Connection Sample



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Comparisons

Model	Audio Input	Loop Output	Matrix Output	Bidirectional Talk Input
DVR0404HBEH-S	4 channel	4 channel	1 channel	1 channel
DVR0804HBEH-S	4 channel	8 channel	1 channel	1 channel
DVR1604HBEH-S	4 channel	16 channel	1 channel	1 channel
DVR0404HBE-S	4 channel	NO	NO	1 channel
DVR0804HBE-S	8 channel	NO	NO	1 channel
DVR1604HBE-S	16channel	NO	NO	1 channel
DVR1604HBEL-S	NO	16 channel	4 channel	NO

Application

Recommended installation areas are Securities Companies, Change Booths, Casinos, Pawnshops, Jewelers, Galleries, Exhibition Halls, Department Stores, Convenience Stores, Discount Offices, Hospitals, Police Stations, Subway Stations, Airports, and Banks etc.

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