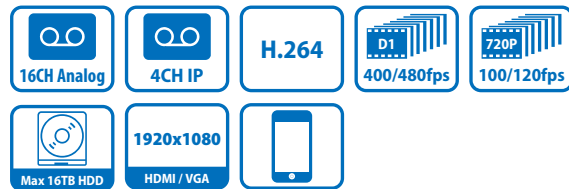


# DH-DVR1604HE-U

20 Channel 720P & Full-D1 Recording Hybrid Standalone DVR



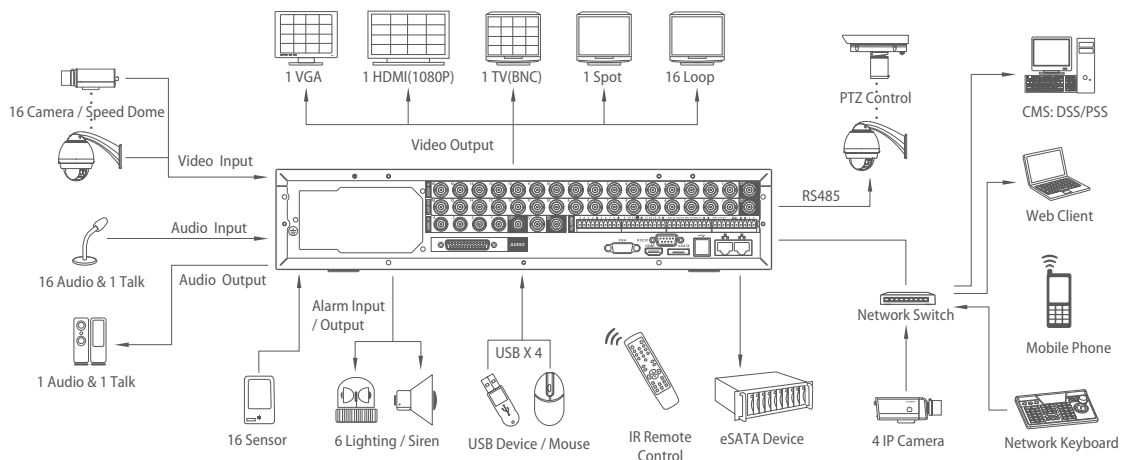
**DH-DVR1604HE-U:** 16 channel analog video inputs and 4 channel IP camera inputs. It can support 16 channel D1(4CIF) realtime recording and 4 channel megapixel IP camera 720P recording. It also support 16 channel loop outputs and 1 channel matrix output. It can support VGA, HDMI(1080P), eSATA and 4 USB2.0.



## Features

- 20 channels realtime hybrid standalone DVR
- Up to 20 cameras with full HD 1080P display
- H.264 compression and H.264/MPEG4 decoding
- D1 for analog input and 720P for IP input
- Dual encoding streams supported
- TV(BNC)/VGA/HDMI synchronous video output
- Live, recording, playback, backup & remote access
- 4 channel simultaneous playback
- Smart video detection: MD, camera blank, video loss
- 3D intelligent positioning with DAHUA PTZ dome
- Easy backup: USB devices, CD/DVD-RW & network download
- Alarm triggering screen tips, buzzer, PTZ, e-mail, FTP upload
- Up to 8 SATA HDDs & CD/DVD-RW, 1 eSATA, 4 USB2.0
- Built-in web server, multi-DVR client, DMSS & CMS

## System Connection



## Specifications

Model		DH-DVR1604HE-U
System	Main Processor	High performance embedded microprocessor
	Operating System	Embedded LINUX
	System Resources	Pentaplex function: live, recording, playback, backup & remote access
	Control Mode	Front panel, USB mouse, IR remote control, Keyboard, Network
Video	Analog Video Input	16 channel, BNC(1.0Vp-p, 75Ω)
	IP Camera Input	4 channel, Max support realtime 720P
		IPC-F725, IPC-F715, IPC-F6X5, IPC-A7, IPC-K5/6 etc series recommended
	Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)
Output	1 TV, 1 Spot, BNC(1.0Vp-p, 75Ω), 1 VGA, 1 HDMI, 16 Loop	
Audio	Input	16 channel, BNC(200-2800mV, 30KΩ)
	Output	1 channel, BNC(200-3000mV, 5KΩ)
	Bidirectional Talk	1 channel Input, BNC(200-2800mV, 30KΩ), 1 channel Output, BNC(200-3000mV, 5KΩ)
Display	Display Split	1/4/8/9/16/20
	Resolution	1920×1080, 1280×1024, 1280×720, 1024×768, 800×600
	Tour Display	Support
	Privacy Masking	8 self-defined four-sided zones for privacy masking for each camera
	OSD	Camera title, time, video loss, camera lock, motion detection, recording
Recording	Video/Audio Compression	H.264 / G.711
	Image Resolution	720P(1280×720) / D1/4CIF(704×576/704×480) / HD1(352×576/352×480) / 2CIF(704×288/704×240) / CIF(352×288/352×240) / QCIF(176×144/176×120)
	Encoding Speed	Main Stream: 720P/4CIF(D1)/HD1/2CIF/CIF(1~25/30fps)
		Extra Stream: CIF/QCIF(1~25/30fps)
	Bit Rate	Analog video: 32~2048Kb/s, IP video: 32~4096Kb/s
	Image Quality	1~6 level(level 6 is the best, VBR effectively)
	Recording Mode	Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss), Alarm), Stop
	Recording Priority	Manual >Alarm >MD >Regular
Recording Interval	1~120 min. (default: 60 min.), Pre-record: 1~30 sec., Post-record: 10~300 sec.	
Video Detection & Alarm	Trigger Events	Recording, PTZ movement, Tour, Alarm, Email, Spot output
	Motion Detection	Zones: 396(22×18), Sensitivity: 1~6 (level 6 is highest)
	Video Loss & Camera Blank	Support
	Alarm Input	16 channel
	Relay Output	6 channel
Playback & Backup	Playback Channel	1/2/4
	Search Mode	Time/Date, Alarm, Motion Detection & Exact search (accurate to second)
	Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom(any size)
		Backup Mode
Network	Interface	2 RJ-45 port (10/100/1000M)
	Network Functions	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server
	Remote Operation	Monitor, PTZ control, Playback, System setting, File download, Log information
Hard Disk	Hard Disk	8 SATA ports, 8 HDDs or 6 HDDs + 1 CD/DVD-RW, Max 2TB per HDD supported
	Space Occupation	Audio: 28.8MB/H, Video: 56~1800MB/H
	HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid(Redundancy)
Auxiliary Interface	USB Interface	4 ports, 1 for mouse control, others for backup
	eSATA	1 port
	RS232	Dahua keyboard, PC communication
	RS485	PTZ control
Environmental	Power Supply	AC 100~240 V, 50/60 Hz
	Power Consumption	40W
	Working Environment	-10~+55°C / 10~90%RH / 86~106kpa
	Dimension	2U, 440mm×460mm×89mm(W×D×H)
	Weight	6.5KG(without HDD)