DS-8100HQHI-F8/N SERIES TURBO HD DVR

Features and Functions

Appearance Design

- Typical chassis design to guarantee the low noise and environmental protection of the device
- Front slot of DVD-R/W for more convenient installation and maintenance

Video Input and Transmission

- Connectable to HDTVI, AHD and analog cameras
- Up to 6/10/18-ch 4 MP IP cameras input for DS-8104/8108/8116HQHI-F8/N
- Long distance transmission over UTP and coaxial cable with max. 1200m for the 720p and max. 800m for the 1080p HDTVI signal

Compression and Recording

- One-key enable H.264+ compression to improve encoding efficiency by up to 50% and reduce data storage costs
- Up to 3 MP resolution for recording of the first channel of DS-8104HQHI-F8/N, the first 2 channels of DS-8108HQHI-F8/N, and the first 4 channels of DS-8116HQHI-F8/N
- Supports real-time 1080p lite and when enabled, the image effect is similar with 1080p
- Supports POS triggered recording and POS information overlay

Video Output

- HDMI and VGA output can be configured simultaneous or independent. If simultaneous, up to 4K (3840 × 2160) resolution is supported; if independent, up to 1920 × 1080 resolution for VGA output and up to 4K (3840 × 2160) resolution for HDMI output
- Independent CVBS output improves compatibility at the most possibility and serves as the aux output or live view output only

Storage and Playback

- Eight SATA interfaces (up to 6 TB capacity per HDD) and 1 eSATA interface
- USB 3.0 provides high-speed file transfer and backup
- 4/8/16-ch synchronous playback at up to 1080p resolution
- Smart search for efficient playback
- Supports the 3rd party cloud storage (Dropbox/Google Drive/Microsoft OneDrive)

Smart Function

- Supports multiple VCA (Video Content Analytics) events for both analog and smart IP cameras, and 2-ch line crossing detection and intrusion detection
- VQD (Video Quality Diagnostics)
- Unlock pattern for device login for the *admin* and clear-text password available
- GUID file can be exported for password resetting and imported for finding the forgotten password
- Supports PTZ control via Omnicast VMS of Genetec protocol

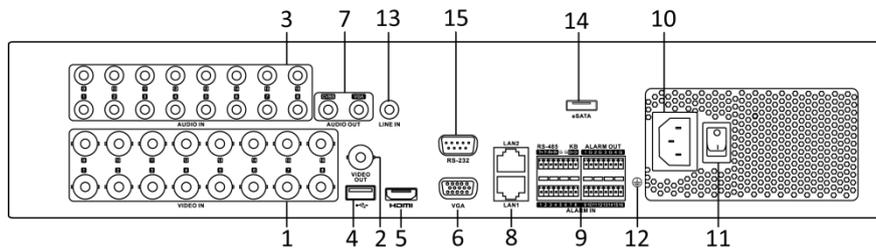### Network & Ethernet Access

- Hik Cloud P2P & HiDDNS (Dynamic Domain Name System) for easy network management
- Two gigabit Ethernet network interfaces
- Output bandwidth limit configurable

Specifications

Model		DS-8104HQHI-F8/N	DS-8108HQHI-F8/N	DS-8116HQHI-F8/N
Video/Audio input	**Video compression**	H.264+/H.264		
	Analog video input	4-ch	8-ch	16-ch
		BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection		
	HDTVI input	3 MP, 1080p25, 1080p30, 720p25, 720p30, 720p50, 720p60 **Note**: The 3 MP signal input is only available for the first channel of DS-8104HQHI-F8/N, the first 2 channels of DS-8108HQHI-F8/N, and the first 4 channels of DS-8116HQHI-F8/N.		
	AHD input	1080p25, 1080p30, 720p25, 720p30		
	CVBS input	Support		
	IP video input	2-ch (up to 6-ch)	2-ch (up to 10-ch)	2-ch (up to 18-ch)
		Up to 4 MP resolution		
	Audio compression	G.711u		
	Audio input	4-ch	8-ch	16-ch
		RCA (2.0 Vp-p, 1 KΩ)		
Video/Audio output	**CVBS output**	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480		
	HDMI/VGA output	**HDMI**: 1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz **VGA**: 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
	Encoding resolution	When 1080p Lite mode not enabled: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF; When 1080p Lite mode enabled: 3 MP/1080p lite/720p/VGA/WD1/4CIF/CIF		
	Frame rate	Main stream: When 1080p Lite mode not enabled: For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@12fps For 1080p stream access: 1080p/720p@12fps; VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) When 1080p Lite mode enabled: 3 MP/1080p lite/720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)		
		Sub-stream: WD1/4CIF/2CIF@12fps; CIF/QVGA/QCIF@25fps (P)/30fps (N)		
	Video bit rate	32 Kbps to 6 Mbps		
	Audio output	2-ch, RCA (Linear, 1 KΩ)		
	Audio bit rate	64 Kbps		
	Dual stream	Support		
	Stream type	Video, Video & Audio		
	Synchronous playback	4-ch	8-ch	16-ch
Network management	**Remote connections**	128		
	Network protocols	TCP/IP, PPPoE, DHCP, Hik Cloud P2P, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF		
Hard disk	**SATA**	8 SATA interfaces		
	eSATA	Support		
	Capacity	Up to 6 TB capacity for each disk		
External interface	**Two-way audio input**	1-ch, RCA (2.0 Vp-p, 1 KΩ) (independent)		
	Network interface	2, RJ45 10M/100M/1000M self-adaptive Ethernet interface		
	USB interface	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0		
	Serial interface	RS-232, RS-485 (full-duplex), Keyboard		
	Alarm in/out	16/4		
General	**Power supply**	100 to 240 VAC		
	Consumption (without HDD)	≤ 30 W	≤ 40 W	≤ 55 W
	Working temperature	-10 ºC to +55 ºC (14 ºF to 131 ºF)		
	Working humidity	10% to 90%		
	Dimensions (W × D × H)	445 × 470 × 90 mm (17.5 × 18.5 × 3.5 inch)		
	Weight (without HDD)	≤ 8 kg (17.6 lb)		

Physical Interfaces

NOTE

The rear panel of DS-8104/8108HQHI-F8/N provides 4/8 video input interfaces.

Index	Description	Index	Description
1	VIDEO IN	**9**	RS-485 Serial Interface, Keyboard Interface, ALARM IN and ALARM OUT
2	VIDEO OUT	**10**	100 to 240 VAC Power Input
3	AUDIO IN, RCA Connector	**11**	Power Switch
4	USB Interface	**12**	GND
5	HDMI Interface	**13**	LINE IN
6	VGA Interface	**14**	eSATA Interface
7	CVBS AUDIO OUT and VGA AUDIO OUT	**15**	RS-232 Serial Interface
8	LAN1 and LAN2 Network Interfaces		

Distributed by

Available Models

DS-8104HQHI-F8/N, DS-8108HQHI-F8/N, DS-8116HQHI-F8/N