

DS-7100HQHI-K1 SERIES TURBO HD DVR

Key Feature

- H.265 Pro+/H.265 Pro/H.265 video compression
- HDTVI/AHD/CVI/CVBS/IP video input
- Audio via coaxial cable
- Up to 6/12/24-ch IP camera inputs (up to 6 MP)
- Max. 800 m for 1080p and 1200 m for 720p HDTVI signal
- Up to 6 TB capacity per HDD















Compression and Recording

- H.265 Pro+ can improve encoding efficiency and reduce the data storage cost
- Full channel recording at up to 4 MP lite resolution

Storage and Playback

- Smart search for efficient playback
- Support the 3rd party cloud storage

Network & Ethernet Access

- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Max. 24/48/96 Mbps incoming bandwidth and output bandwidth limit configurable





Specification

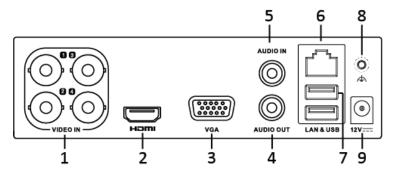
Model	DS-7104HQHI-K1 DS-7116HQH		DS-7116HQHI-K1			
Recording						
Video compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264					
	When 1080p Lite mode is not enabled:					
	4 MP lite/3 MP/1080p/720p	/VGA/WD1/4CIF/CIF;				
Encoding resolution	When 1080p Lite mode is en	abled:				
	4 MP lite/3 MP/1080p lite/7	20p lite/VGA/WD1/4CIF/CIF				
	Main stream:					
	When 1080p Lite mode is not enabled:					
	For 4 MP stream access:					
	4 MP lite@15fps; 1080p lite/	/720p/WD1/4CIF/VGA/CIF@2	5fps (P)/30fps (N)			
	For 3 MP stream access: 3 M	P/1080p/720p/VGA/WD1/4C	IF/CIF@15fps			
Frame rate	For 1080p stream access:					
Frame rate	1080p/720p@15fps; VGA/W	D1/4CIF/CIF@25fps (P)/30fps	s (N)			
	For 720p stream access: 720	p/VGA/WD1/4CIF/CIF@25fps	(P)/30fps (N)			
	When 1080p Lite mode is en	abled:				
	4 MP lite/3 MP@15fps; 1080	op lite/720p lite/VGA/WD1/40	CIF/CIF@25fps (P)/30fps (N)			
	Sub-stream:					
	WD1/4CIF@12fps; CIF@25fp	os (P)/30fps (N)				
Video bit rate	32 Kbps to 6 Mbps					
Dual stream	Support					
Stream type	Video, Video & Audio					
Audio compression	G.711u					
Audio bit rate	64 Kbps					
Video and Audio						
	1-ch (up to 5-ch)	2-ch (up to 10-ch)	2-ch (up to 18-ch)			
	Enhanced IP mode on:	Enhanced IP mode on:	Enhanced IP mode on:			
IP video input	2-ch (up to 6-ch), each up	4-ch (up to 12-ch), each up	8-ch (up to 24-ch), each up			
	to 4 Mbps	to 4 Mbps	to 4 Mbps			
	Up to 6 MP resolution					
	Support H.265+/H.265/H.264+/H.264 IP cameras					
Analog video input	4-ch	8-ch	16-ch			
Analog video input	BNC interface (1.0 Vp-p, 75 of	Ω), supporting coaxitron conne	ection			
	4 MP, 3 MP, 1080p25, 1080p	30, 720p25, 720p30, 720p50,	720p60			
HDTVI input	*: The 3 MP signal input is	only available for channel 1 o	of DS-7104HQHI-K1, channel			
	1/2 of DS-7108HQHI-K1, and channel 1/2/3/4 of DS-7116HQHI-K1.					
AHD input	4 MP, 1080p25, 1080p30, 720p25, 720p30					
HDCVI input	4 MP, 1080p25, 1080p30, 72	0p25, 720p30				
CVBS input	Support					
VGA output	1-ch, 1920 × 1080/60Hz, 128	30 × 1024/60Hz, 1280 × 720/6	0Hz, 1024 × 768/60Hz			
	1-ch 1920 x 1080/60Hz 1	1280 x 1024/60Hz 1280 v	1-ch, 4K (3840 ×			
HDMI output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 2160)/30Hz, 2K (2560 × 720/60Hz, 1024 × 768/60Hz					
	720/60Hz, 1024 × 768/60Hz 1440)/60Hz, 1920 ×					



			1080/60Hz, 1280 ×			
			1024/60Hz, 1280 ×			
			720/60Hz, 1024 ×			
			768/60Hz 1024 ×			
	1 ab DCA /2 O V/a a 1 KO		708/00012			
Audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)		46 1			
		4-ch via coaxial cable 8-ch via coaxial cable 16-ch via coaxial cable				
Audio output	1-ch, RCA (Linear, 1 KΩ)					
Two-way audio	1-ch, RCA (2.0 Vp-p, 1 KΩ) (ι					
Synchronous playback	4-ch	8-ch	16-ch			
Network			1			
Total bandwidth	72 Mbps	96 Mbps	128 Mbps			
Incoming bandwidth	24 Mbps	48 Mbps	96 Mbps			
(Enhanced IP mode)	24 141003	40 Wibp3	30 Wibp3			
Remote connection	32	64	128			
Network protocol	TCP/IP, PPPoE, DHCP, Hik-Co	TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF				
Network interface	1, RJ45 10M/100M self-ada	1, RJ45 10M/100M/1000M self-adaptive Ethernet interface				
Auxiliary interface						
SATA	1 SATA interface					
Capacity	Up to 6 TB capacity for each	disk				
USB interface	Real panel: 2 × USB 2.0					
Alarm in/out	N/A					
General						
Power supply	12 VDC, 1.5 A	12 VDC, 1.33 A	12 VDC, 1.9 A			
Consumption (without HDD)	≤ 8 W	≤ 12 W	≤ 15 W			
Working temperature	-10 °C to +55 °C (+14 °F to +	131 °F)	1			
Working humidity	10% to 90%					
Dimension (W × D × H)	200 × 200 × 45 mm (7.9 × 7.	9 × 1.8 inch)	285 × 210 × 45 mm (11.2 × 8.3 × 1.8 inch)			
	≤ 1 kg (2.2 lb)					



Physical Interface





The rear panel of DS-7108/7116HQHI-K1 provides 8/16 video input interfaces.

Index	Description	Index	Description
1	Video and Coaxial Audio In	6	LAN Network Interface
2	HDMI Interface	7	USB Interfaces
3	VGA Interface	8	GND
4	AUDIO OUT, RCA Connector	9	12 VDC Power Input
5	AUDIO IN, RCA Connector		

Available Model

DS-7104HQHI-K1, DS-7108HQHI-K1, DS-7116HQHI-K1



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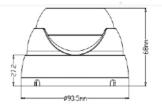
FDX-CDO21COL-M36

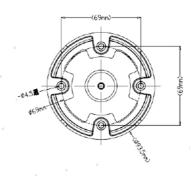
Specifikacija

Model	FDX-CDO21COL-M36
Senzor	1/2.9" OV CMOS Sensor
Rezolucija	2.0 MP (1920 x 1080px)
Signal sistema	PAL / NTSC
Minimalno osvetljenje	0.01Lux (FI.2,AGC ON)
S/N Odnos	Više od 52dB
Objektiv	3.6mm Fiksni objektiv
IR udaljenost	15 metara
IR LED	"Suplement light" - 2 Warmlight LED diode
Video tehnologija	AHD / TVI / CVBS
Napajanje	DC12V/4A < 15W
Zaštita	IP66
Dimenzije	93,5 x 68 mm
Radni uslovi	-20°C ~ +55°C / RH95% Max
Dan/Noć režim	ICR filter / Full Kolor / Crno -belo
WDR	WDR
OSD Meni	Podržava, direktna kontrola putem koaksijalnog kabla i DVR-a
Ostale funkcije	AWB, AGC, BLC, 2D/3D-DNR
Materijal kućišta	Metal











WD Purple[™]

Surveillance Hard Drives

WD Purple™ drives are built for 24/7, always-on, high-definition security systems. With a supported workload rate* of up to 180 TB/yr and support for up to 64 cameras, WD Purple™ drives are optimized for surveillance systems. WD Purple™ surveillance storage also comes with WD's exclusive AllFrame 4K™ technology, so you can confidently create a security system tailored to the needs of your business. Using AllFrame 4K™ technology, WD Purple™ drives improve ATA streaming to help reduce errors, pixelation, and video interruptions that could happen in a video recorder system.



INTERFACE

SATA 6 Gb/s

FORM FACTOR

3.5-inch

PERFORMANCE CLASS

5400 RPM Class

CAPACITIES

SOOGR to LOTE

MODEL NUMBERS

WD100PURZ WD30PUR: WD80PUZX WD20PUR: WD60PURX WD10PUR: WD50PURX WD05PUR:

Product Features

The right drive for the right job

WD Purple™ drives have been engineered specifically for surveillance, so they're able to withstand the extreme heat fluctuations and equipment vibrations within a NVR environment. An average desktop drive is built to run for only short intervals, not the harsh 24/7 always-on environment of a high-definition surveillance system. A disruption to a drive could result in a failure that impacts multiple users, your security archive, or even the entire system. With WD Purple™, you get reliable, surveillance-class storage that's tested for compatibility in a wide-range of security systems.

Industry-leading storage. Surveillance you can trust.

WD is a worldwide leader in the hard drive industry. With WD Purple[™] surveillance storage, you have a drive engineered for high temperature, always-on surveillance systems so you can rely on quality video playback when you need it most. Whether you're protecting loved ones or monitoring your business, WD Purple[™] offers performance you can trust.

Wide compatibility. Seamless integration.

WD Purple™ hard drives are built with compatibility in mind, so you can quickly and seamlessly add capacity to your surveillance system. With a wide range of industry-leading enclosures and chipsets supported, you're sure to find the DVR configuration that's right for you.**

**Not sure what drive is best for your system? Use our compatibility tool to find the perfect storage for your DVR or NVR.

Expand your view to 64

Each WD Purple™ drive is optimized to support up to 64 cameras. With so many options, you have the flexibility to upgrade or expand your security system in the future

Trust your view with AllFrame 4K™

Missed frames and lost footage could be a serious problem when video surveillance needs to be retrieved. All WD Purple™ drives are equipped with AllFrame 4K™ technology, which improves ATA streaming to help reduce frame loss, improve overall

video playback, and increase the number of hard drive bays supported within a NVR.

Features

- Engineered specifically for surveillance security systems.
- Three times the workload rating of our desktop hard drives*.
 Tuned for write-intensive, low bit-rate.
- high stream-count applications typical to most surveillance applications.
- Prioritized write-operations for maximized surveillance performance.
- TLER & ATA streaming support.
- Support for more than eight bays.***

*Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X(8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

***For capacities 4TB and higher.

Less power. More efficient.

Low power consumption is a necessity in a high-temperature, always-on surveillance environment. With our exclusive IntelliSeek™ technology, WD Purple™ drives are able to calculate optimum seek speeds. This keeps power consumption low so ambient noise and vibrations are at

Three year limited-warranty

As an industry-leading hard drive manufacturer, WD stands behind their surveillance storage solutions. With a 3-year limited warranty included with every WD Purple™ drive, you can rely on your surveillance system's data storage capabilities.

The WD Advantage

At WD, we put our products through extensive Functional Integrity Testing (F.I.T.M) prior to any product launch. This testing ensures our products consistently meet the high quality and reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have long operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.



WD Purple™

Specifications	10ТВ	8TB	6TB	5TB	4TB	зТВ	2TB
Model number ¹	WD100PURZ	WD8oPUZX	WD6oPURX	WD50PURX	WD40PURX	WD30PURX	WD20PURX
Formatted capacity ²	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Form factor	3.5-inch						
Advanced Format (AF)	Yes						
RoHS compliant ³	Yes						
Performance							
Interface transfer rate (max) ² Buffer to host Host to/from drive (sustained)	6 Gb/s 210 MB/s	6 Gb/s 178 MB/s	6 Gb/s 175 MB/s	6 Gb/s 170 MB/s	6 Gb/s 150 MB/s	6 Gb/s 145 MB/s	6 Gb/s 145 MB/s
Cache (MB) ²	256	128	64	64	64	64	64
Performance Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity							
_oad/unload cycles ⁴	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴						
Limited warranty (years) ⁵	3	3	3	3	3	3	3
Power Management							
Average power requirements (W) Read/Write Idle Standby and Sleep Environmental Specifications	6.2 5.0 0.5	6.4 5.7 0.7	5-3 4-9 0-4	5.3 4.9 0.4	5.1 4.5 0.4	4.4 4.1 0.4	4.4 4.1 O.4
Temperature (°C, on the base casting) Operating Non-operating	0 to 65 -40 to 70	o to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70			
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250						
Acoustics (dBA) ⁷ Idle Seek (average)	20 29	20 29	25 26	25 26	25 26	23 24	23 24
Physical Dimensions							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
_ength (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	1.43/0.65	1.43/0.65	1.65/0.75	1.65/0.75	1.50/0.68	1.40/0.64	1.40/0.64

¹ Not all products may be available in all regions of the world

As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second (MB/s) = one million bytes per second (MB/s) = one billion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate calculated according to the Serial ATA specification published by the SATA-10 organization as of the date of this specification sheet. Vist www.sata-io.org for details.

³ WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

⁴ Controlled unload at ambient condition.

⁵ See http://support.wd.com/warranty for regional specific warranty details.

 $^{^{\}rm 6}$ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.



WD Purple™

Specifications	1TB	500GB
Model number ¹	WD10PURX	WDo5PURX
Formatted capacity ²	1TB	500GB
Form factor	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes
RoHS compliant ³	Yes	Yes
Performance		
Interface transfer rate (max) ² Buffer to host Host to/from drive (sustained)	6 Gb/s 110 MB/s	6 Gb/s 110 MB/s
Cache (MB) ²	64	64
Performance Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity		
Load/unload cycles ⁴	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3	3
Power Management		
Average power requirements (W) Read/Write Idle Standby and Sleep	3.3 2.9 0.4	3.3 2.9 0.4
Environmental Specifications ⁶		
Temperature (°C, on the base casting) Operating Non-operating	0 to 65 -40 to 70	0 to 65 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 350	30 65 350
Acoustics (dBA) ⁷ Idle Seek (average)	21 22	21 22
Physical Dimensions		
Height (in./mm, max)	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	0.99/0.45	0.99/0.45

Not all products may be available in all regions of the world.

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² As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-10 organization as of the date of this specification sheet. Visit www.sata-io.org for details.

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⁴ Controlled unload at ambient condition.

 $^{^{\,\,5}\,}$ See http://support.wd.com/warranty for regional specific warranty details.

⁶ No non-recoverable errors during operating tests or after non-operating tests.

 $^{^{7}}$ Sound power level.



Model CP1220-1A AC input AC110-240V 50/60Hz DC output DC12V 1A

Size

POWER SUPPLY



POE Power Supply Adapter		
Model	CP1221-1A	
AC input	AC110-240V 50/60Hz	
DC output	DC12V 1A	
Size	85*44*30mm	



CASVIEW

Switching Power Supply			
Model	CP1207-1A		
AC input	AC110-240V 50/60Hz		
DC output	DC12V 1A		
Size	70*40*30mm		



85*45*30mm

Switching Power Supply		
Model	CP1207-2A	
AC input	AC110-240V 50/60Hz	
DC output	DC12V 2A	
Size	85*58*32mm	



Switching Power Supply			
CP1207-3A			
AC110-240V 50/60Hz			
DC12V 3A			
110*78*36mm			



Switching Power Supply			
CP1207-5A			
AC110-240V 50/60Hz			
DC12V 5A			
160*100*40mm			



Switching Power Supply		
Model	CP1207-10A	
AC input	AC110-240V 50/60Hz	
DC output	DC12V 10A	
Size	200*100*40mm	



Switching Power Supply		
Model	CP1207-15A	
AC input	AC110-240V 50/60Hz	
DC output	DC12V 15A	
Size	210*95*40mm	



Switching Power Supply	
Model	CP1207-20A
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	215*105*45mm



Switching Power Supply	
Model	CP1208-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	210*95*40mm



Switching Power Supply	
Model	CP1208-40A
AC input	AC110-240V 50/60Hz
DC output	DC12V 40A
Size	210*95*40mm



Powe	r Supply

Rainproof Power Supply	
CP1211-5A	
AC110-240V 50/60Hz	
DC12V 5A	
105*180*48mm	

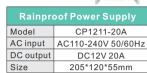


Rainproof Power Supply	
Model	CP1211-10A
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	220*105*50mm



Rainproof Power Supply	
Model	CP1211-15A
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	225*105*50mm







Rainproof Power Supply	
Model	CP1211-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	245*145*65mm

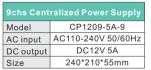


5chs Centralized Power Supply	
Model	CP1209-3A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 3A
Size	165*165*50mm

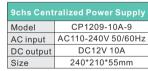


5chs Centralized Power Supply	
Model	CP1209-5A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	165*165*50mm

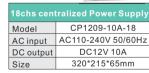
















18chs centralized Power Supply	
Model	CP1209-15A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	320*215*65mm



18chs centralized Power Supply	
Model	CP1209-20A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	320*215*65mm
Size	320°215°65mm





18chs centralized Power Supply		
Model	CP1209-30A-18	
AC input	AC110-240V 50/60Hz	
DC output	DC12V 30A	
Size	320*215*65mm	