



H.264
DVR with DIFS Technology

QPD-4004/4009/4016

H.264 Stand-alone DVR



H.264 Standalone DVR series 4Ch 9Ch 16CH

- Real-time monitoring and recording of all Channels
- 1Ch direct POS support with Text search, text information overlay on recorded data
- Only DVR in the world with DIFS (Dual Index File System)technology
- Pentaplex: Record, Playback, Copy, Mirroring and Networking simultaneously
- Ultra fast video over network with delay less than 0.2 Sec
- Network Viewer: 16units x 16Clients (16Clients can connect simultaneously)
- OTP - One Touch instant (rev.fwd) Playback of all channels from the previous second
- Accommodates 1SATA HDD of 2TB (max)
- 1Yr auto adjusted recording, irrespective of HDD capacity
- Search: Calender, Time, Event, Block, File, Bookmark, text and Log file
- Built-in File viewer on copy media with Password and AVI conversion
- Copy: USB memory stick, CD-R, CD-RW, DVD -RW, DVD RAM, DVD+R, DVD-R, FTP
- Backup to remote FTP server
- 4 Channel audio Input
- User friendly Menu, Settings and Remote control
- Picture-in-Picture (PIP), Video magnification, Freeze function
- Web based remote setup, DVR control
- Email event notification with JPEG
- CMS (Central Management software) 64Ch display /screen, infinite DVR connectivity
- CCTV on mobile phone (Win-ce and iphone)
- Supports external HDD bay: QPHD-3U (3HDD bay) and QPHD-10U (10HDD bay)
- Compatible with Qpix Digital Matrix system and QPDK-CTL1 Keyboard
- Compatible with 4Ch POS system

16CH : CIF at 400 FPS Recording

9CH : CIF at 225 FPS Recording

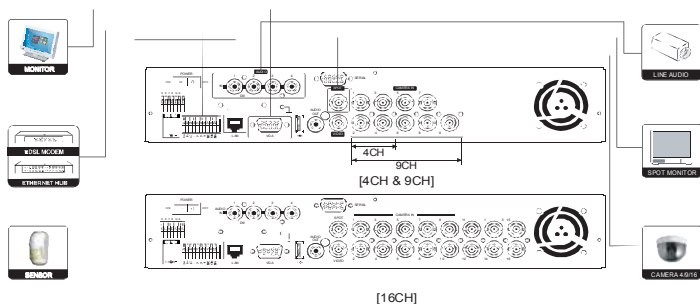
4CH : 4CIF at 100 FPS Recording



QPD-4004 / 4009 / 4016

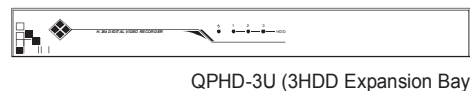
VIDEO		QPD-4004 / 4009 / 4016		
Video Input	4CH/ 9CH/ 16H (BNC)			
Input Level	1.0Vp-p±10% Composite, 75Ω Balanced			
Main TV Output	1.0 Vp-p Composite, 75Ω Balanced			
Analog Spot Monitor Output	1.0 Vp-p Composite, 75Ω Balanced			
Camera Name	Max. 12 Characters, Bitmap Support			
Main Monitor Split Control	1, 2(PIP), 4, 6, 7, 8, 9, 10, 13, 16			
Screen Rotate Control	0~60 Seconds			
Display	Resolution	NTSC	720(H) x 480(V)	
		PAL	720(H) x 576(V)	
	Speed	NTSC	120/ 270/ 480 fps (Every CH Real Time)	
		PAL	100/ 225/ 400 fps (Every CH Real Time)	
Function	Auto sequence 1, 4, 9, 16 Split, PIP			
AUDIO				
Compression	G.723			
Audio Input (Line)	4CH (RCA)			
Input Level	Max 2.0Vp-p@10KOhm			
Audio Output (Line)	1CH (RCA)			
RECORDING				
Compression	H.264 Base line profile			
Resolution	NTSC	704(H) x 480(V)	704(H) x 240(V)	352(H) x 240(V)
	PAL	704(H) x 576(V)	704(H) x 288(V)	352(H) x 288(V)
Speed	NTSC	352 x 240	Max. 120/ 270/ 480 fps (CIF)	
		704 x 240	Max. 120/ 240/ 240 fps (Half D1)	
		704 x 480	Max. 120/ 120/ 120 fps (D1)	
	PAL	352 x 288	Max. 100/ 225 / 400 fps (CIF)	
		704 x 288	Max. 100/ 200/ 200 fps (Half D1)	
		704 x 576	Max.100/ 100/ 100 fps (D1)	
Operation performance		Pentaplex		
Each CH	Frame Setting	Available		
	Event, Normal	Available		
	Resolution	Available		
	Quality	Support 4 level (Low,Normal,Fine,Best)		
Setup per Channel	Individual			
Record Period	Automatic data delete for privacy			
Data Size	1~3KB (CIF), 3~7KB (D1/2), 6~15KB (D1)			
Recording Mode	Normal (Continuous), Event (Motion detection, Sensor, Video loss), Schedule, Holiday			
Pre-Alarm	Max. 5 Seconds			
Watermark & Digital integrity	Support			
Schedule	24 groups per day by an hour, User can configure holiday			
Day light saving time	Support			
HDD	Internal Storage	1HDD (2TB/HDD)		
	Speed	5,400RPM		
	DMA	133MHz DMA		
	Type	SATA compatible		
	External Storage	USB 2.0 High-Speed		
	HDD Bay Interface	QPHD-3U, QPHD-10U		
SEARCHING & PLAYBACK				
Searching Method	Time, Calendar, Event			
Playback & Reverse Playback	1, 2, 4, 16, 32, 64, 128 velocity 1/2, 1/4, 1/16, 1/32, 1/64, 1/128			
Playback De-interlace	ON/ OFF			
COPY				
Internal CD/DVD±RW	Built-in			
Media Support	CD-R/ CD-RW/ DVD±RW/ DVD RAM			
USB 2.0	USB memory stick, External USB HDD/CD RW/DVD RW			
Windows compatibility	FAT32			

SYSTEM DIAGRAM



BACKUP		
Automatic Backup (Mirroring)	Event, Mirroring, Full Mirroring	
Capacity	Each HDD configurable as Back-up	
ALARM		
Sensor Input	Programmable polarity	
Alarm Output	1 Relay output (NO,NC,CM)	
Motion Detection	Available For Each Camera Multiple Detection Level	
MULTI-REMOTE SURVEILLANCE		
Monitoring Environment	Client Software, Central Monitoring System, Web Browser, Mobile Viewer	
Transmission Rate	NTSC : 150(CIF), PAL : 125(CIF)	
No. of connection	Supporting Multi-Client (16 Clients accessible)	
SYSTEM MONITORING & RECOVERY		
System Logging	Power Failure Checkable/Menu Change/Network connection	
Monitoring	Hardware Watchdog	
Recovery	Auto-Recovery By Watchdog, Automatic Database Recovery	
CONNECTOR		
Video Input	16CH/ 9CH/ 4CH (BNC)	
Main Monitor Output	Composite	BNC 1 Port (Rear)
	VGA Output	1 Port (15 pins female D-SUB)
	DVI	Option
Spot Monitor Output	BNC 1 Port	
Audio Input (Mono)	4CH/ 4CH /4CH (RCA)	
Audio Output (Mono)	1CH/ 1CH /1CH (RCA)	
HDD Bay Connection	USB 2.0	
Firmware upgrade	USB 2.0 Port, Network	
External Control (RS - 485)	2 Pins Terminal Block	
Sensor Input	4CH/9CH/16CH Terminal Block (Include Ground Common 4Pins)	
Alarm Output	1Relay, 3Terminals (NO,NC,CM)	
PTZ(RS-485)	2 pins Terminal Block, Half Duplex	
Ethernet	RJ-45, 10/100Mbps	
USB 2.0	Front 2 ports, Rear 1 port	
ELECTRICAL		
Power Source	DC 5A	
Power Consumption	Approx. 50 Watts (Including 1 HDD)	
ENVIRONMENTAL		
Operating Temp.	0°C ~ +45°C	
Storage Temp.	-10°C ~ +60°C	
Humidity	30 ~ 90%RH (Non-Condensing)	
PHYSICAL		
Construction Shape	Industrial, Professional	
Construction Material	Plastics Front Steel Case	
Body Color	Black	
Dimension	340(w) x 248(D) x 60(H) mm	
Weight	Approx. 2kg	
OTHERS		
OS	Embedded Linux	
Language	English, Korean, Japanese, Polish, Spanish, Russian, Chinese, Taiwanese, French, Turkish, German, Italian, Portuguese	
Control Device	Front key, Remote controller, Mouse, External Keyboard	
PTZ	Pelco D-Type, Pelco P-Type, SPD, SRX, SCC-643, DSC-230S, TK-C655/676 (JVC), CS-854A, DMP23, VC-C4R, LPT-A100L, SK-D106, SD-290, PCS-Series, BOSCH, EZ Protocol	
Number of Event list / Log list	50,000 per 1HDD / 20,000	
Bay Option Spec.		
DVD+R, DVD-R	XHD-3U	
HDDs	3 SATA HDDs	
USB2.0 input	1 port	
Power Source	DC12V/5A	
LED indication in Front	Power, HDD	
Fan	One Ball bearing Type (25MM 2p wire)	
Accessories	AC 110/220 free input AC Adaptor(DC12V), Manual	
Dimension	280(w) x 216.5(D) x 32.3(H) mm	
Weight	Appx. 2.0kg	

* Specifications are subject to change without notice.



QPHD-3U (3HDD Expansion Bay)