

16ch Real-time H.264 Digital Disk Recorder **WJ-HD716**

16ch H.264 Digital Disk Recorder **WJ-HD616**

NTSC WJ-HD716 (120 V AC)
WJ-HD616 (120 V AC)

PAL WJ-HD716 (220 ~ 240 V AC)
WJ-HD616 (220 ~ 240 V AC)



WJ-HD716

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

UniPhier **SD5 Link**
SuperDynamic

H.264 High Picture Quality encoding with 16ch Real-time recording, HDMI Full HD display and SD5Link

Key Features



- H.264 (High profile) codec with “UniPhier®” Panasonic’s proprietary System LSI platform provides high quality and high compression encoding simultaneously.
- 16 analog video inputs including 16 (WJ-HD716) / 8 (WJ-HD616) Panasonic coax. camera control inputs and 4 audio inputs
- Real-time recording (WJ-HD716 only):
480/400 ips (Field), 240/200 ips (Frame) (NTSC/PAL)
* WJ-HD616 features Field 240/200 ips and Frame 120/100 ips (NTSC/PAL)
- Live/Playback monitor out (HDMI, BNC) and Live monitor out (HDMI, BNC)
- 2x HDMI interfaces supporting dual 1080i (1,920 x 1,080) display
- Up to 960/800 ips at 16ch 2x monitors real-time live (NTSC/PAL)
- Various Display Modes: 4 / 7 / 8 / 9 / 12 / 16 split screen display
- **SD5Link** (Super Dynamic 5 Link) capability with i-VMD (intelligent-Video Motion Detection) alarm provides disk saving and easy search.
- Up to 5 recorders can be integrated in cascade connection mode for up to 80 cameras.
- Equipped with 4 HDD slots accessible from front panel
- DVD drive (optional) and SD/SDHC memory card slot for easy copy of recorded image data
- HDD capacity is expandable up to 31 HDDs (4 HDD slots in the main unit and 3 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots).
- RAID5/6 redundant recording with optional WJ-HDB601 RAID Board
- Up to 4 optional WV-CU650 system controllers can be connected by PS>Data.
- Easy operation with GUI and USB mouse
- Remote monitoring available from Internet Explorer® and WV-ASM100
- H.264 image transfer at QVGA resolution for narrow network bandwidth

- Setup data of WJ-HD716/WJ-HD616 can be downloaded and uploaded with SD/SDHC memory card.
- User/Host authentication (Up to 32 user registrations)
- Up to 8 users can operate via network simultaneously.
- Excellent maintenance capability: Front HDD exchangeability, Front maintenance network port

Standard Accessories

• CD-ROM* 1 pc.	• Rack Mount Bracket 2 pcs.
• Installation Guide 1 pc.	• Screw for Rack Mount Bracket ... 6 pcs.
• Quick Reference Guide 1 pc.	• Rack Handle 2 pcs.
* The CD-ROM contains the operating instructions (PDFs) and other manuals.	• Screw for Rack Handle 4 pcs.
The following are for installation:	• Washer 4 pcs.
• Power Cord (NTSC model) 1 pc.	• HDD Canister 1 pc.
• Power Cord (PAL model) 2 pcs.	• HDD Fixing Screw for HDD Canister... 6 pcs.

Optional Accessories

HDD Canister WJ-HDU40K	i-Pro Management Software WV-ASM100 
RAID Board WJ-HDB601	
Built-in DVD Drive WJ-HDB611	
Hard Disk Extension Unit WJ-HDE400 	Power Source : 120 V AC, 60 Hz (NTSC) 220 ~ 240 V AC, 50 Hz (PAL)
	Power Consumption: approx. 130 W
	Dimensions : 430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections)
	Weight : 13.5 kg (29.8 lbs.) (When no HDD exist) 20 kg (44.15 lbs.) (When 9 HDDs are installed)

Specifications

TV System	NTSC	PAL		
Audio / Video IF	Video Inputs	WJ-HD716: 16x 1.0 V [p-p] / 75 Ω composite video inputs (BNC) 16x multiplexed control data (1 ~ 16 CH) Cascade IN: 2x HDMI, 1x BNC WJ-HD616: 16x 1.0 V [p-p] / 75 Ω composite video inputs (BNC) 8x multiplexed control data (1 ~ 8 CH) Cascade IN: 2x HDMI, 1x BNC		
	Video Outputs	16x 1.0 V [p-p] / 75 Ω composite video signal (BNC), active loop through outputs Monitor outputs: 2x HDMI, 2x 1.0 V [p-p] / 75 Ω composite video signal (BNC), Video output (front RCA): 1x 1.0 V [p-p] / 75 Ω composite video signal		
	Audio Inputs	4x -10 dBv, 10 kΩ (RCA) (1 ~ 4 CH)		
	Audio Outputs	Rear: 1x -10 dBv, 600 Ω Front: 1x -10 dBv, 600 Ω		
Audio / Video Format	Recording	H.264 (High profile) Frame (720 x 480 pixels) Field (720 x 240 pixels)	H.264 (High profile) Frame (720 x 576 pixels) Field (720 x 288 pixels)	
	Network	H.264 (High profile) QVGA (320 x 240 pixels): Recording independent Field/Frame: Recording dependent		
Recording	Frame Rate Total	WJ-HD716: 480 ips at Field, 240 ips at Frame WJ-HD616: 240 ips at Field, 120 ips at Frame	WJ-HD716: 400 ips at Field, 200 ips at Frame WJ-HD616: 200 ips at Field, 100 ips at Frame	
	Camera Control	Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mode		
Main Unit Functions	Multiscreen Mode	4 / 7 / 8 / 9 / 12 / 16 split screen display		
	Copy to External Media	DVD±R, SD/SDHC		
Browser GUI	Supported Browser	Windows® Internet Explorer® 7.0 (Microsoft® Windows Vista® Business 32 bit), Microsoft® Internet Explorer® 6.0 SP2 (Microsoft® Windows® XP Home/Professional SP2)		
	Network Interface	10Base-T / 100Base-TX (RJ-45) x1		
Network	Maintenance Interface	10Base-T / 100Base-TX (RJ-45) x1		
	No. of Client at a Time	8		
Alarm / Event	Alarm Source	Up to 32 users		
	Alarm Source	16x Terminal inputs, 16x Camera alarm, PS-Data		
External IF	Alarm	16x Alarm inputs (25 pin D-sub, Make contact, N.O./N.C.) 16x Alarm outputs (25 pin D-sub, Open collector, N.O./N.C.) 1x Alarm reset input, 1x Alarm suspend input		
	EXT Storage	3x High speed serial interface. Only for WJ-HDE400 Extension Unit.		
	Recording	Emergency recording input, External recording mode input		
	Time Adjustment	Time adjustment input/output		
	Controls	Sequence switching signal input. Power outage detection output, Shut down ready output		
	PS-Data (RS-485) Controller	2x RS-485 (RJ-11) PS-Data compatible for control from WV-CU650 or Matrix Switcher WJ-SX650		
	RS-485 Camera Interface	2x RS-485 (RJ-11), 2/4wire, half duplex, for 1 ~ 16 CH		
	Mouse	USB Mouse port (Front) x1		
	SD/SDHC Slot	SD/SDHC Memory Card Slot (Front) x1		
	HDD	Type	3.5 inch Serial ATA HDD, Up to 4x HDDs can be installed.	
		Maximum HDD	31 HDDs (with 3x WJ-HDE400 extension units each with 9x HDD slots)	
	General Specifications	RAID	RAID5/RAID6 supported (with WJ-HDB601)	
Safety/EMC Standard		UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	CE (EN60065, EN55022 ClassB, EN55024)	
Power Source		120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
Power Consumption		130 W		
Ambient Operating	Temperature	+5 °C ~ +45 °C (41 °F ~ 113 °F)		
	Humidity	Less than 85 % (without condensation)		
	Dimensions	430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-3/4" (D)) (excluding rubber feet and projections)		
	Weight (approx.)	14 kg (30.8 lbs.) without HDD (Factory default), 17 kg (37.4 lbs.) with 4 HDDs		

Trademarks and registered trademarks

– HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

– Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.

– UniPhier is a registered trademark of Panasonic Corporation.

– "Super Dynamic", "SDII", "SDIII", "SD5", "SD5Link" and "i-Pro" logos are trademarks or registered trademarks of Panasonic Corporation.

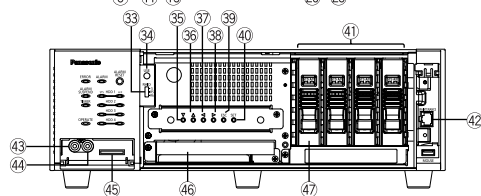
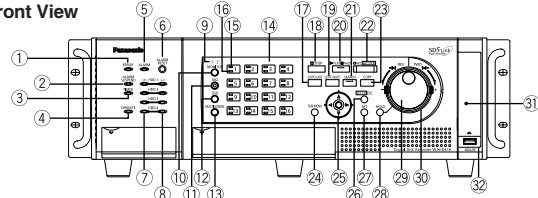
Important

– Safety Precaution: carefully read the operating instructions and installation manual before using this product.

– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

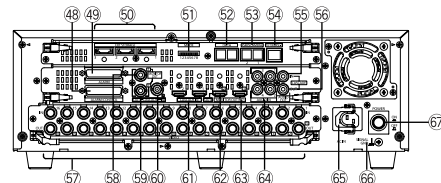
Part Names and Functions

Front View



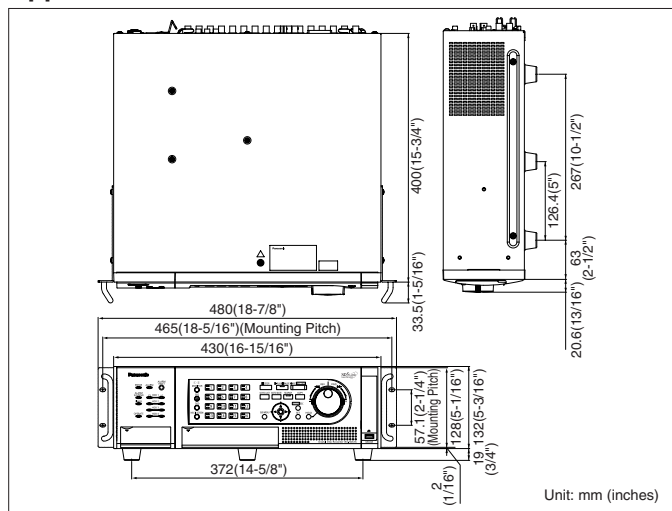
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|------------------------------|-----------------------------|---------------------------|
| ① Error Indicator | ⑱ GOTO LAST Button | ③③ RAID Mode Switch |
| ② Alarm Suspension Indicator | ⑲ Stop Button | ③④ USE Button |
| ③ Timer Indicator | ⑲ GOTO DATE Button | ③⑤ Down Button |
| ④ Operate Indicator | ⑲ Play/Pause Button | ③⑥ Up Button |
| ⑤ Alarm Indicator | ⑲ Search Button | ③⑦ Left Button |
| ⑥ Alarm Reset Button | ⑲ Record/Record Stop Button | ③⑧ Right Button |
| ⑦ HDD Status Indicators | ⑲ Copy Button | ③⑨ Escape Button |
| ⑧ HDD Access Indicators | ⑲ Sub-menu Button | ④① Set Button |
| ⑨ Monitor Indicators | ⑲ Arrow Button | ④② HDD Bay Slots |
| ⑩ Monitor Switching Button | ⑲ Setup/Escape Button | ④③ Maintenance Port |
| ⑪ Sequence Button | ⑲ Set Button | ④④ Audio Output Connector |
| ⑫ OSD Button | ⑲ Hold Button | ④⑤ Video Output Connector |
| ⑬ Multi-screen Button | ⑲ Jog Dial | ④⑥ SD/SDHC Card Slot |
| ⑭ Camera Selection Buttons | ⑲ Shuttle Ring | ④⑦ DVD Drive |
| ⑮ Live/Playback Indicator | ⑳ Maintenance Cover | ④⑧ HDD Unit |
| ⑯ Record Indicator | ⑳ Mouse Connector | |

Rear View



- | | | |
|--------------------------------|---|--|
| ④⑧ Alarm/Control Connector | ⑤⑤ Audio Output Connector (Cascade Output) | ⑥① Cascade In Connectors (HD) |
| ④⑨ Alarm Connector | ⑤⑥ Video Input Connectors / Video Output Connectors | ⑥② Monitor Output Connector 2 (HDMI)(Cascade Output) |
| ⑤① External Storage Connectors | ⑤⑦ Mode Switches | ⑥③ Monitor Output Connector 1 (HDMI) |
| ⑤② PS-Data Ports | ⑤⑧ Monitor Output Connector 1 (BNC) | ⑥④ Audio Input Connectors |
| ⑤③ RS-485 Ports | ⑤⑨ Monitor Output Connector 2 (BNC) | ⑥⑤ Power Cord Inlet |
| ⑤④ Network Port | ⑤⑩ Cascade In Connector (BNC) | ⑥⑥ Signal Ground Terminal |
| ⑤⑤ Audio Cascade In Connector | | ⑥⑦ Power Switch |

Appearance



- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- All product pictures are NTSC models.

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