

16CH Digital Disk Recorder WJ-HD316A 9CH Digital Disk Recorder WJ-HD309A

WJ-HD309A (120 V AC)

NTSC WJ-HD316A (120 V AC) PAL WJ-HD316A (220 ~ 240 V AC) WJ-HD309A (220 ~ 240 V AC)



Advanced Digital Disk Recorder with system capability and disk expandability

Key Features

- Proprietary video compression including Inter-frame mode and Intra-frame mode
- 9/16 analog video inputs including 6/8 coax camera control inputs and 4 audio inputs (HD309A/HD316A)
- Various Recording Modes: Manual, Schedule, Event (Pre/Post), Emergency, External Timer
- 4 recording programs including Individual recording mode for each camera channel
- 25/30 ips (frame), 50/60 ips (field), 100/120 ips (SIF) recording frame rate (PAL/NTSC)
- Panasonic Camera Control: Camera control can be made by front panel buttons, system controller, web browser or optional software.
- Flexible Playback Controls: A-B Repeat, Goto Date (Jump to specific time/date), Goto Last (Jump to 5 sec. ~ 5 min. before the record end)
- Various Display Modes: Spot / Quad (4 patterns) / 6 / 7 / 9A / 9B / 10 / 13 / 16 / (Live / Playback), Spot Sequence / Quad sequence (Live), Dwell time 1 ~ 30 sec.
- 50 (PAL) or 60 (NTSC) ips/camera full rate live display in 16 split screen mode
- Filtered Search: Time & Date, Event type, Camera number, Text
- Various alarm sources include 16x terminal inputs, 16x camera alarms, PS-Data. Flexible alarm actions include Event recording, E-mail notification, alarm message, camera positioning, FTP image transfer, terminal output, Panasonic alarm protocol output, buzzer and LED
- VMD (Video Motion Detector): 4 areas, 3 sensitivity levels with
- Up to 4 recorders can be integrated in cascade connection mode for up to 64 cameras.
- Recorded images and viewer software can be downloaded to a PC via network.
- Flexible setup options: OSD, browser, admin software with Quick/Advanced at users' preference
- Image transfer to FTP server: Recorded image upon alarm and/or live image periodically
- User/Host authentication, 4 user levels, 16 user priorities and User-Camera View/Control partitioning set up for sophisticated user management. Up to 32 user registrations.
- 1x front panel/PSD/RS232C user and 8x network users can access the recorder with individual priority at a time.
- · Alteration detection for data security
- Optional system controller can be connected for easier operation.
- Multi-recorder, Multi-site system can be made with optional WV-ASM100 i-Pro Management Software.
- HDD capacity is expandable with 2 HDD slots in the main unit and up to 7 WJ-HDE300 optional Extension Units each with 4 HDD slots.
- Disk partitioning including Normal, Event, Copy for flexible record management
- HDD Safety Mode to protect HDDs during the installation of the recorder.
- RAID5 and RAID1 mirroring redundant recording

Standard Accessories

- · Operating Instructions The followings are for installation: Power Cord 1 pc. Rack Mounting Bracket 2 pcs · Screw for Rack Mounting Bracket .. 4 pcs
 - Hard Disk Drive Fixing Screw 4 pcs. *The followings are included on the CD-ROM:
 - Viewer software

 - Decoder Plug-in software
 Network Operating Instructions (PDF)
 - Network Setup Instructions (PDF) Operation Using The System Controllers (PDF)
 Administrator Console (Software)

Optional Accessories

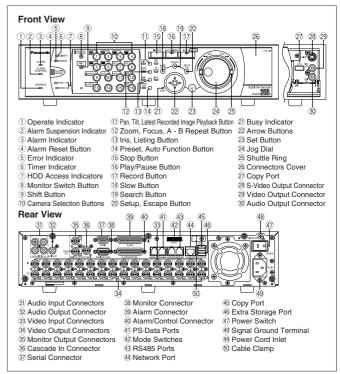


i-Pro Management Software

WV-ASM100



Part Names and Functions



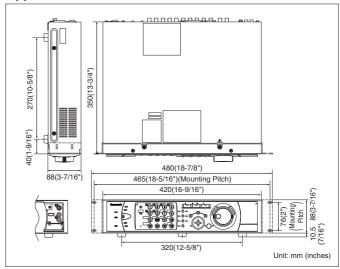
Specifications

Specifications						
TV System			NTSC	PAL		
Audio /	Video Inp	outs	WJ-HD316A:			
Video IF			16x 1.0 V [p-p] / 75 Ω composite	video inputs (BNC)		
			with 8x active loop through outp			
			8x auto termination loop through			
			8x multiplexed control data (1 ~			
			Cascade IN: 1x 1.0 V [p-p] / 75 Ω composite video signal (BNC)			
			WJ-HD309A:			
			9x 1.0 V [p-p] / 75 Ω NTSC composite video inputs (BNC)			
			with 6x active loop through outputs (1 ~ 6 CH) and			
			3x auto termination loop through (7 ~ 9 CH).			
			6x multiplexed control data (1 ~ 6 CH).			
	Video Outputs Audio Inputs		Cascade IN: 1x 1.0 V [p-p] / 75 Ω composite video signal (BNC)			
			Monitor 1: 1.0 V [p-p] / 75 Ω composite video signal (BNC)			
			Monitor 2 / Cascade: 1.0 V [p-p] / 75 Ω composite video signal (BNC)			
			Monitor (VGA): RGB output (15 pin D-sub), Same video as Monitor 2			
			S-Video (front): Same video as Monitor 2			
			Video output (front RCA): Same video as Monitor 2			
			WJ-HD316A: 4x -10 dBV, 10 Ks			
			WJ-HD309A: 4x –10 dBV, 51 KΩ (RCA) (1 ~ 4 CH)			
	Audio Outputs		Rear: 1x –10 dBV, 600 Ω, Unbalanced (RCA),			
			Front: 1x RCA (same signal as rear)			
Audio /	Recording Image		Frame (3D ON/OFF) (720 x 480 pixels),			
Video		Resolution	Field (720 x 240 pixels),	Field (720 x 288 pixels),		
Format			SIF (360 x 240 pixels)	SIF (360 x 288 pixels)		
		Video	Proprietary: SFA, FQA, NQA, EX			
		Compression	Independent quality for each car			
		Color Mode	Fine: 4 : 2 : 2, Standard: 4 : 1 :1			
	Network	Image Resolution		Field (720 x 288 pixels)		
	INCLINOIR		Proprietary: FQB	Tield (720 x 200 pixelo)		
		Color Mode	Standard: 4 : 1 : 1			
	Audio Con		PCM 11.025 kHz, 16 bit (Monau	ral)		
Recording	Recording Mode		Manual, Event, Schedule, Emer			
riecording	Schedule REC Mode		4 programs, 6 time zone/day, Indepen			
	Frame Rate / Camera		0.1 ~ 60 ips (Depending on the image size),			
	l rame ri	ato / Garriora	Independent frame rate for each camera	Independent frame rate for each camera		
	Frame R	ate Total	120 ips at SIF, 60 ips at Field, 30 ips at Frame	· ·		
	Pre-Alarm Recording Camera Control		Up to 60 images, Up to 60 min.	Up to 50 images, Up to 60 min.		
			with exclusive HDD in the WJ-HDE300			
Main Unit			Pan/Tilt, Zoom, Focus, Iris, Preset p			
			REC, PLAY, Rev PLAY, Pause, Stop, FF, RE			
i unctions	REC / Playback Control Search Mode			•		
			Next Image, A-B Repeat, Goto Date, Goto Last (5 sec. ~ 5 min.), Text display, Jog/Shuttle Search criteria: Time date, Event type, Camera number, Text ON/OFF			
	Multiscreen Mode		Spot / Quad (4 patterns) / 6 / 7 / 9A / 9B / 10 / 13 / 16 / (Live / Playback),			
	Mulliscreen Mode		Spot Sequence / Quad Sequence (L			
	Copy to External Media		Recorded data of selected came			
	Copy to t	External Media	range can be copied to external			
	Convito (Copy Partition	Recorded data of selected came			
	Сору ю	ору ғанион	can be copied to the COPY part			
	Camera '	Title	OSD, Alphanumeric, Up to 16 characters			
	Clock Dis		OSD or Image embedded, Time: 12H / 24H, Date: 3 formats			
			· · · · · · · · · · · · · · · · · · ·			
	Alarm Control Digital Zoom		Reset, Suspend 2x, 4x			
	Text Attachment		Free comment can be attached for	each record. Up to 200 characters		
	System Log					
			Operator access (100), Network error (1,000), Error (100), Event (750)			
	System Setup OSD Language VMD Video Loss Detection		OSD setup menu in English, French, Italian, Spanish, German, Russian, Chinese, Japanese English, French, Italian, Spanish, German, Russian, Chinese, Japanese			
			4 areas, 3 sensitivity levels, with vector and duration setup			
			4 areas, 3 sensitivity levels, with vector and duration setup Yes			
			Up to 32 users (Same as NW users)			
	User Registration User Level		Admin and 3 user levels (programmable, same as NW user levels)			
	Time Synchronization		Terminal (Master or Slave), NTP (Client)			
	Summer Time		User definable (Menu setup required)			
Browser	Camera Control		Pan/Tilt, Zoom, Focus, Iris, Preset p			
GUI	REC/Playback Control		REC, PLAY, Rev PLAY, Pause, Stop,			
	0,1 14	, 0011101				
	Search N	Mode	Prev Image, Next Image, Goto Date, Goto Last (5 sec. ~ 5 min.), Text display Search criteria: Time date, Event type, Camera number, Text ON/OFF			
			Spot / Quad (A, B, C, D) / 9 (A, B) / 16 (Live, Playback), Spot Sequence (Live)			
	Display Mode Image Download		Recorded data of selected camera and time range (up to 99 min 59 sec.)			
	go Domiloud		can be downloaded to a PC. Viewer software can be downloaded separately.			
	Copy to Copy Partition		Recorded data of selected cameras and time date range can be copied to the COPY partition			
	Camera Title		On the browser, Up to 16 charac			
	Clock Display					
	Alarm Control		On the browser or Image embedded. Time: 12H / 24H, Date: 3 formats Reset. Suspend			
			Reset, Suspend			
	Digital Zoom		Up to 4 times			
	Text Attachment		Free comment can be attached for each record. Up to 200 characters Operator access (100), Network error (1,000), Error (100), Event (750)			
	System Log			or (1,000), Error (100), Event (750		
	System Setup		Setup page in English			
	GUI Language		English			
	Supported OS		Microsoft® Windows Vista® Busi			
			Microsoft® Windows® XP Home			
	_		English, German, French, Italian			
	Supporte	d Browser	Windows® Internet Explorer® 7.0 (Microsoft®			
1			Microsoft® Internet Explorer® 6.0 SP2 (Micros	soft® Windows® XP Home/Professional SP2)		

Microsoft® Internet Explorer® 6.0 SP2 (Microsoft® Windows® XP Home/Professional SP2)

TV System		NTSC	PAL	
Network	Network Interface	10Base-T / 100Base-TX (RJ-45) x1	
	Bandwidth Limitation	32 Kbps ~ Unlimited		
	Supported Protocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP		
	E-mail	Upon Alarm or Warning		
	No. of Client at a Time	8		
	User Registration	Up to 32 users (Same as main unit users)		
	User Level	Admin and 3 user levels (programmable, same as main unit user levels)		
	Partitioning	User - Camera (View only, View & Control, No Access)		
	Security Method	User authentication (ID 32 digit, PW 32 digit),		
	•	Host authentication (IP address), Alteration detection		
Alarm /	Alarm Source	16x Terminal inputs, 16x Camera alarm, PS·Data		
Event	Event Mode	Alarm / Activity / OFF		
	Alarm Action	Event recording, e-mail notification, Alarm message, Camera positioning,		
		FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer, LED		
	Alarm Control	Reset, Suspend		
	Alarm Log	750		
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	1x High-speed serial interface (USB type connector) for WJ-HDE300 Extension Unit.		
	Error / Warning	Disk space warning, HDD error, System error, Camera error		
	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 RJ-11		
	RS-485 Camera	2x RJ-11		
	Сору	2x High-speed serial interface (USB type connector) for external copy device (Front / Rear)		
HDD	Туре	1x 3.5 inch 250 GB HDD (Factory default), Up to 2x 500 GB HDDs (Specific model)		
	Maximum Capacity	15 TB (with 7x WJ-HDE300 extension units, 4x 500 GB HDDs installed in each unit)		
	RAID	RAID5 supported (with WJ-HDE300)		
	Partitioning	Normal / Event / Copy		
Viewer	REC / Playback Control	Play, Rev Play, Pause, FF, REW, Prev Image, Next Image		
Software	Additional Functions	Alteration detection, Save as JPEG/BMP, Two times zoom, Print		
	Supported OS	Same as Browser GUI		
Admin	Supported OS	Same as Browser GUI		
Software				
General	Safety/EMC Standard	UL (6500), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB,	
Specifications		C-UL (E60065), DOC (ICES003 ClassA)	EN55024)	
	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
	Power Consumption	75 W	,	
	Ambient Operating Temperature	+5 °C ~ +45 °C (41 °F ~ 113 °F)		
	Ambient Operating Humidity	Less than 85 % (without condensation)		
	Dimensions	420 mm (W) x 88 mm (H) x 350 mm (D) [16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)]		
	Dillionollo	(excluding rubber feet and projections)		
	Weight	9.5 kg (21 lbs.)		
	TTOIGHT	3.3 kg (21 lbs.)		

Appearance



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 - 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

- All TV pictures are simulated.
- Weights and dimensions are approximate.
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