Panasonic ideas for life

16CH Real-Time MPEG-4 Digital Disk Recorder Version 1.5 WJ-RT416 Series

NTSC WJ-RT416 (120 V AC) <With 1x 250GB HDD> WJ-RT416K (120 V AC) < Without HDD: WJ-RT416V (120 V AC) <With DVD drive, 1x 250GB HDD> WJ-RT416VK (120 V AC) <With DVD drive, without HDD:

PAL WJ-RT416 (220 ~ 240 V AC) <With 1x 250GB HDD> WJ-RT416K (220 ~ 240 V AC) <Without HDD: WJ-RT416V (220 ~ 240 V AC) <With DVD drive, 1x 250GB HDD> WJ-RT416VK (220 ~ 240 V AC) <With DVD drive, without HDD>



16CH Real-Time MPEG-4 Digital Disk Recorder supporting 480 ips (NTSC) / 400 ips (PAL)

Key Features

- Equipped with 8 Dual Core Encoders, all 16 cameras can be recorded at 30 ips (NTSC) / 25 ips (PAL) per channel.
- MPEG-4: High quality and high compression technology for economical recording
- · Supports multiplexed video and control data over the coax (4ch default, additional 4ch by optional board WV-PB4164) and RS-485 camera control (channel 1 ~ 16)
- · Panasonic Camera Control: Pan/Tilt, Zoom, Focus, Iris, Preset Position, Auto mode (depends on the camera model) with a system controller, the monitoring software or the web browser.
- Various Recording Modes: Manual, Timer, Event (Pre/Post)
- Flexible Recording/Playback Controls: REC, PLAY, Pause, Stop, FF, REW, Prev Record, Next Record
- Various Display Modes: 4 / 6 / 9 / 16 split screen display (Live)
- 16 alarm inputs and 4 alarm outputs
- · Synchronized audio recording for 16 channels
- Direct Search and List Search (Time & Date, Event Type, Camera number)
- Alarm notification via e-mail
- Three user levels: Manager, Operator and Viewer Camera partitioning setting can be applied to each user level.
- VMD (Video Motion Detector): Mask area: 24 x 20, Sensitivity: 01 ~ 99 Recorded image data can be copied to CD-R, DVD-R, DVD+R, USB memory (FAT32), USB HDD (FAT32) via COPY interface (Specified model only) or DVD-R, CD-R via internal DVD drive (WJ-RT416V), Viewer software can be included when copying.
- Equipped with 6 HDD slots (5 HDD slots and 1 DVD drive for V models)
- HDD Safety Mode to protect HDDs during installation
- Optional WV-CU650 or WV-CU950 system controllers can be connected (RS-485). Playback speed can be controlled by Jog/Shuttle. Direct camera preset position program is also available.
- Integration capability with System150*1 or System650*2: System controllers connected to System150/650 can control WJ-RT416. Cameras connected to System150/650 can be controlled from the monitoring software (RT4Client) or the web browser.
- Built-in network interfaces (10Base-T / 100Base-TX) for remote monitoring and operation
- Multi-recorder, Multi-site system can be made with the provided monitoring software (RT4Client).
- · Recorded video and audio data can be downloaded to the client PC with the monitoring software (RT4Client) or the web browser. Downloaded images can be played by the viewer software (RT4Viewer).
- The viewer software (RT4Viewer) can convert recorded audio and video data into Windows® Media-format, and also can extract audio to wav file.
- . Up to 16 network clients can monitor live spot images (total network video stream is 16, Refresh rate depends on the number of streams, recording mode and playback mode).
- Up to 4 playback streams can be sent to the network.
- Selectable Unicast/Multicast for efficient network utilization
- *1 System150 version 2.2 or later *2 System650 version 3.0 or later

Standard Accessories

• CD-BOM* ... 1 pc. Installation Guide

Operating instructions of the monitoring software (PDF)

Monitoring software (BT4Client, including the viewer software)

- 1 pc. · Power cable (for NTSC model) 1 pc. * The followings are included on the CD-ROM.
 - Power cable (for PAL model) 2 pcs.

The followings are for installation.

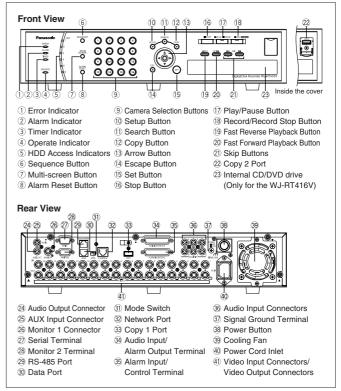
- HDD mounting screws, sleeves, dampers • Rack mounting brackets 2 pcs.
- Fixing screw for rack mounting brackets ... 8 pcs.

Optional Accessory

4CH Camera Control Board WV-PB4164



Part Names and Functions

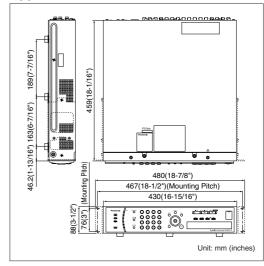


Specifications

TV System Audio /	1		NTSC	PAL		
	Video Inputs		16x 1.0 V [p-p] / 75 Ω NTSC composite	16x 1.0 V [p-p] / 75 Ω PAL composite		
Video IF	Video Inputs		video inputs (BNC)	video inputs (BNC)		
Video IF			Multiplexed control data compatible:	Multiplexed control data compatible:		
			$1 \sim 4 \text{ CH} / 1 \sim 8 \text{ CH}^{*1}$	1 ~ 4 CH / 1 ~ 8 CH*1		
			Active loop through outputs:	Active loop through outputs:		
			1 ~ 4 CH / 1 ~ 8 CH*1	1 ~ 4 CH / 1 ~ 8 CH*1		
			Auto termination loop through outputs:	Auto termination loop through outputs:		
			5 ~ 16 CH / 9 ~ 16 CH*1	5 ~ 16 CH / 9 ~ 16 CH*1		
	Video Outputs		Monitor 1: 1.0 V [p-p] / 75 Ω NTSC	Monitor 1: 1.0 V [p-p] / 75 Ω PAL		
	Audio Inputs		composite video signal (BNC)	composite video signal (BNC)		
			Monitor 2: RGB output (15 pin D-sub)	Monitor 2: RGB output (15 pin D-sub)		
			Same video as Monitor 1 Same video as Monitor 1			
			16x –10 dBV, 51 KΩ (CH 1 ~ 6: RCA, CH 7 ~ 16: 25 pin D-sub), AUX (Mic): –52 dB, 2.2 KΩ (RC			
	Audio Mp		1x –10 dBV, 1 KΩ (RCA)			
Audio /	Video	Image	Field (704 x 240), SIF (352 x 240),	Field (704 x 288), SIF (352 x 288),		
Video	Format	-				
		Resolution	Independent for each camera	Independent for each camera		
Format		Video Compression		NQ), Extended (EX), Independent for each came		
	,	Color Mode	4:1:1			
	Audio Com	pression Method	ADPCM 8 Kbps, 8 Bit			
Recording	Recording Mode		Manual (Power ON start available), Alarm, Timer (schedule)			
	Timer (Schedule) REC Mode		One program, 2 time zone / day, Independent time zone setup for each day of the week or dai			
	Frame Rate / Camera		Full / 1/2F / 1/4F / 1/8F / 1/16F, Independent for each camera			
	Frame Rate Total		480 ips 400 ips			
			400 lps 400 lps 400 lps			
Main Unit	Pre-alarm Recording REC / Playback Control					
		ysack control	REC, PLAY, Pause, Stop, Fast Rev Play (6 steps), Fast Fwd Play (7 steps), Next record, Prev Record, Step Fwd, Step Back, (Made by 7 buttons)			
Functions			Next record, Prev Record, Step Fwd, Step Back, (Made by 7 buttons)			
	Search Mode		Search criteria: Time date, Record type, Camera number			
	Display Mode		Live: 4 / 6 / 9 / 16 split screen display, Spot sequence, Quad sequence,			
			Dwell time 5 ~ 30 sec., Play back: Spot, Quad sequence			
	Camera T	Title	Alphanumeric, Up to 10 characters			
	Clock Display		OSD, Image embedded, 12H / 24H, Date: 5 formats			
	Time Synchronization		Terminal (Slave), NTP (Client)			
	Summer Time		User definable (Menu setup required)			
	VMD		Mask area: 24 x 20, Sensitivity: 01 ~ 99			
	Video Loss Detection		Supported (Sync Level)			
	Copy to External Media		WJ-RT416, WJ-RT416K: CD-R, DVD-R, DVD+R, USB memory (FAT32), USB HDD			
			(FAT32) via COPY interface (Specified model only), Viewer software can be included.			
			WJ-RT416V, WJ-RT416VK: CD-R, DVD-R, DVD+R, USB memory (FAT32), USB HDD (FAT32) via COF			
			interface (Specified model only) or DVD-R, CD-R via internal DVD drive, Viewer software can be include			
	User Level /		3 levels: Manager (4 Users), Operator (8 users), Viewer (20 users),			
	Registrations		User level-Camera partitioning available. Applicable for Main unit and NW users			
	System Log		Access log (100), Error log (100), Operation log (500)			
	System Setup		OSD Setup menu (English, Chinese, Japanese, Custom)			
Functions	Camera C		Pan/Tilt, Zoom, Focus, Iris, Preset position call and program (up to 256), Auto mode, Setup mer			
with	REC / REC, PLAY, Pause, Stop, Fast Rev Play (6 steps),					
System	Playback Control Fast Fwd Play (7 steps), Next record,					
Controller	laybaon	Control	Prev Record, Step Fwd, Step Back			
			Unlimited			
	Number of Br	acorder Registration	Offinitined			
Monitoring		ecorder Registration	Dev /Tilt Zeens France Inis Descet resition	and (we to 050). As to menda		
Monitoring Software	Camera C	Control	Pan/Tilt, Zoom, Focus, Iris, Preset position			
Monitoring	Camera C	Control	REC, PLAY, Pause, Stop, Prev Record, Ne			
Monitoring Software	Camera C Recorder	Control Control	REC, PLAY, Pause, Stop, Prev Record, Ne Frame play, Alarm reset	ext Record, Next Image, Play Speed,		
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TV System			NTSC	PAL	
Alarm	Alarm Source			Camera alarms, PSData	
	Alarm Action		Alarm recording, e-mail notification, Alarm message,		
	Alarm Control		Camera spot with positioning, Terminal output,		
			Buzzer, LED. Panasonic Alarm Protocol		
			Reset		
	Alarm Log		9.990		
Network			10Base-T / 100Base-TX (RJ-45)		
network	Maximum Bandwidth				
	Supported Protocol		· ++ · · · · · · · · · · · · · · · · ·		
	No. of Simultaneous				
	Video Streams		Playback: Up to 4 (live will be I frame only),		
	video Sifeams		Simultaneous Live I frame and Playback is possible.		
	Security Method		User authentication, Alteration detection with the viewer software		
External IF					
External IF			16x Terminal inputs (25 pin D-sub, Make contact), 4x Alarm outputs (25 pin D-sub, Relay, N.O. / N.C)		
	Control			D-sub, Relay, N.O. / N.C)	
	Connector		, ,		
		Error /	HDD error output, Erro	r output	
	Warning				
	DATA Interface		1x RS-485 (RJ-11) PSData compatible for control		
			from WV-CU650, WV-CU950 or Matrix switcher		
	RS-485 Camera Interface				
	Copy Interface		High speed serial interface (USB TypeA connector front/rear)		
HDD /	HDD		WJ-RT416, WJ-RT416V: 1x 3.5 inch 250 GB HDD		
DVD			WJ-RT416, WJ-RT416K: 6 HDD slots		
			WJ-RT416V, WJ-RT416VK: 5 HDD slots		
	DVD		WJ-RT416V, WJ-RT416VK: 1x CD/DVD drive		
			supporting DVD-R/CD-R burning		
General	Safety/E			CE (EN60065, EN55022	
Specifications	Standard		C-UL (E60065),	ClassB, EN55024),	
			. ,	GOST (GOST R 51558)	
	Power Source		120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
	Power Consumption		WJ-RT416, WJ-RT416K: 110 W WJ-RT416V, WJ-RT416VK: 120 W		
	Ambient Operating		+5 °C ~ +45 °C (41 °F ~ 113 °F)		
	Temperature				
	Ambient Operating		WJ-RT416, WJ-RT416K:		
	Humidity		5 % ~ 90 % (without condensation)		
			WJ-RT416V, WJ-RT416VK:		
			10 % ~ 80 % (without condensation)		
		-	430 mm (W) x 88 mm (H) x 459 mm (D) (16-15/16"(W) x 3-1/2" (H)		
	Dimensio	ons			
	Dimensio	ons	x 18-1/16" (D)) (excluding rubber		
	Dimensio Weight	ons	., .,	feet and projections)	

Appearance



*1 With WV-PB4164 control board

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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

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