Panasonic ideas for life

16CH Real-Time MPEG-4 Digital Disk Recorder Version 1.3 WJ-RT416 Series

 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-RT416V (120 V AC)

 <With DVD drive, without HDD>

 WJ-RT416VK (120 V AC)

 <With DVD drive, without HDD>

 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>

 WJ-RT416VK (220 ~ 240 V AC)



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)
- · Sixteen alarm inputs and four 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.
- Built-in 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.
- A maximum of 3 TB (6x 500 GB, WJ-RT416) or 2.5 TB (5x 500 GB, WJ-RT416V) hard disk drives can be installed.
- 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*² or System650*³: 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 or the web browser*.
- 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 four playback streams can be sent to the network.
- · Selectable Unicast/Multicast for efficient network utilization.
- The viewer software can convert recorded audio and video data into Windows Media-format, and also can extract audio to wav file.
- * Available from version 1.4, *2 System150 version 2.2 or later. *3 System650 version 3.0 or later.

Standard Accessories

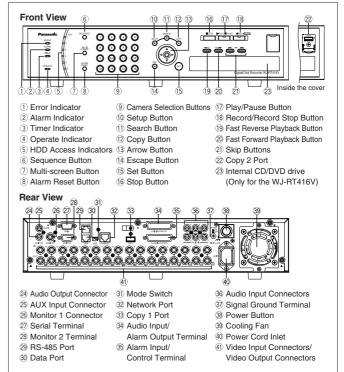
- CD-ROM* 1 pc.
- Installation Guide 1 pc.
- * The followings are included on the CD-ROM. Power call
- Operating instructions of the monitoring software (PDF)
 Monitoring software (RT4client, including the viewer software)
- The followings are for installation. • Power cable (for NTSC model) 1 pc.
- Power cable (for PAL model) 2 pcs.
- 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

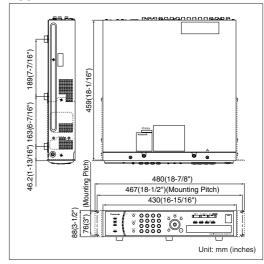


Specifications

•	iicalii	5113	NTCO	DAL	
TV System Audio /	1		NTSC		
Audio / Video IF	Video Inp	outs	16x 1.0 V [p-p] / 75 Ω NTSC composite	16x 1.0 V [p-p] / 75 Ω PAL composite	
VIGEO IF			video inputs (BNC) Multiplexed control data compatible:	video inputs (BNC) Multiplexed control data compatible:	
			1 ~ 4 CH / 1 ~ 8 CH*	1 ~ 4 CH / 1 ~ 8 CH*	
			Active loop through outputs:	Active loop through outputs:	
			1 ~ 4 CH / 1 ~ 8 CH*	1 ~ 4 CH / 1 ~ 8 CH*	
			Auto termination loop through outputs:	Auto termination loop through outputs:	
			5 ~ 16 CH / 9 ~ 16 CH*	5 ~ 16 CH / 9 ~ 16 CH*	
			* With WV-PB4164 control board.	* With WV-PB4164 control board.	
	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)	
			16x -10 dBV, 51 KΩ (CH 1 ~ 6: RCA, CH 7 ~ 16: 25 pin D-sub), AUX (Mic): -52 dB, 2.2 KΩ (RCA)		
	Audio Ou	tput	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	(Recording	Video Compression	MPEG-4: Super Fine (SF), Fine (FQ), Normal (N	Q), Extended (EX), Independent for each camera	
		Color Mode	4:1:1		
		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 daily.		
	Frame Rate / Camera		Full / 1/2F / 1/4F / 1/8F / 1/16F, Independent		
	Frame Rate Total		480 ips	400 ips	
	Pre-alarm Recording		Max. 5 sec.		
Main Unit Functions	REC / Playback Control				
	Search Mode		Next record, Prev Record, Step Fwd, Step Back, (Made by 7 buttons)		
	Search Mode		Search criteria: Time date, Record type, Camera number Live: 4 / 6 / 9 / 16 split screen display, Spot sequence, Quad sequence,		
	Display Mode		Live: 4 / 6 / 9 / 16 split screen display, Spot sequence, Quad sequence, Dwell time 5 ~ 30 sec., Play back: Spot		
	Camera Title		Alpha numeric, Up to 10 Characters		
	Camera Title 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 COPY		
			interface (Specified model only) or DVD-R, CD-R via		
	User Level /		3 levels: Manager (4 Users), Operator (8 use	ers), Viewer (20 users),	
	Registrations		User level-Camera partitioning available. Ap	plicable for Main unit and NW users	
	System Log		Access log (100), Error log (100), Operation log (500)		
	System Setup		OSD Setup menu (English, Japanese, Chinese)		
Browser	Camera Control		Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mode.		
GUI*	REC/Playback Control		PLAY, Pause, Stop, Prev Record, Next Record, Step Fwd, Play Speed		
	Search Mode		Search criteria: Time date, Record type, Camera number		
	Display Mode		1 / 4 / 6 / 9 / 16 split screen display (Live/Playback)		
	Image Download		Supported		
	Camera Title		"Cam1" to "Cam16" (fixed) on the browser		
	Clock Display		On the browser. Format depends on the PC time/date format. English, Chinese, Japanese		
	GUI Language		Microsoft® Windows® XP Home SP2, Microsoft® Windows® XP Professional SP2		
	Supported OS		The language of the OS must be same as selected GUI language.		
	Supported Browser		Microsoft® Internet Explorer® 6.0 SP2		
Alarm	Alarm Source		16x Terminal inputs, 16x Camera alarms, PSData		
Alarin	Alarm Source		Alarm recording, e-mail notification, Alarm message, Camera spot with positioning,		
	Alarm Action		Terminal output, Buzzer, LED. Panasonic Alarm Protocol		
	Alarm Control		Reset		
	Alarm Log		9,990		
Network	Network Interface		10Base-T / 100Base-TX (RJ-45)		
	Maximum Bandwidth		Apporox. 24 Mbps (Data download at Non-recording status)		
	Supported Protocol		TCP/IP, UDP/IP, SMTP, POP3, DHCP, DNS, NTP		
	No. of Simultaneous		Live full rate: Up to 4, Live I frame only: Up to 16, Playback: Up to 4 (live will be I frame only),		
	Video Streams		Simultaneous Live I frame and Playback is possible.		
	Security I		User authentication, Alteration detection with		
External IF	Alarm /	Alarm		4x Alarm outputs (25 pin D-sub, Relay, N.O. / N.C)	
	Control	Control	Time adjust input		
		Error / Warning			
	DATA Int			I from WV-CU650, WV-CU950 or Matrix switcher.	
			1x RS-485 (RJ-11), 4wire, full duplex, for 1 ~ 16 CH		
	Copy Interface		High speed serial interface (USB TypeA connector front / rear)		
HDD / DVD	HDD		WJ-RT416, WJ-RT416V: 1x 3.5-type 250 GB HDD, WJ-RT416K: Without HDD, Up to 6x 500 GB		
			HDDs can be installed, WJ-RT416VK: Without HDD, Up to 5x 500 GB HDDs can be installed. WJ-RT416V, WJ-RT416VK: 1x CD/DVD drive supporting DVD-R/CD-R burning		
General	DVD				
General Specifications	Safety / EMC Standard			CE (EN60065, EN55022, EN55024,	
			C-UL (E60065), DOC (ICES003 ClassA)	ClassB), 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-RT410	UV, VVJ-N1410VN. 120 W	
	Ambient Operating Temperature		+5 °C ~ +45 °C (41 °F ~ 113 °F) WL PT416 WL PT416K: 5 % 00 % (without condensation)		
	Ambient Operating Humidity		WJ-RT416, WJ-RT416K: 5 % ~ 90 % (without condensation)		
	Dimensions		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) x 18-1/16" (D))		
	Dimensio	ns	430 mm (W) x 88 mm (H) x 459 mm (D) (16	-15/16"(W) x 3-1/2" (H) x 18-1/16" (D))	
	Dimensio	ins		-15/16"(W) x 3-1/2" (H) x 18-1/16" (D))	
	Dimensio Weight	ins	(excluding rubber feet and projections)	-15/16"(W) x 3-1/2" (H) x 18-1/16" (D)) WJ-RT416K, WJ-RT416VK: 11 kg (24.28 lbs.)	

TV System NTSC PAL Functions Camera Control Pan/Tilt, Zoom, Focus, Iris, Preset position call and with program (up to 256), Auto mode, Setup menu. System REC / REC, PLAY, Pause, Stop, Fast Rev Play (6 steps), Controller Playback Control Fast Fwd Play (7 steps), Next record, Prev Record, Step Fwd, Step Back Monitoring Number of Unlimited Software Recorder Registration Camera Control Pan/Tilt, Zoom, Focus, Iris, Preset position call (up to 256), Auto mode Recorder Control REC, PLAY, Pause, Stop, Prev Record, Next Record, Next Image, Play Speed, Frame play, Alarm reset Search Mode Search criteria: Time date, Record type, Camera number Display Mode 1 / 4 / 6 / 9 / 16 split screen display (Live / Playback) Favorite Display 10 Favorites, Multiple recorders can be mixed. Image Download Supported Camera Title Up to 12 alphanumeric characters Recorder Title Up to 12 alphanumeric characters OSD, Image embedded, 12H / 24H, Date: 5 formate Clock Display Audio AUX: Bi-directional between client PC and Recorder Audio input 1 ~ 16: Single directional from recorder to PC (Live and Playback) Local Recording Supported System Setup GUI Setup menu, Setup data Download / Upload supported. GUI Language English, Chinese, Japanese Required PC CPU: Intel[®] Pentium[®] 4 3.0 GHz or faster RAM: 512 MB or more, VRAM: 256 MB or more, Overlay compatible, Microsoft® DirectX® 8.0a or later Supported OS Microsoft[®] Windows[®] XP Home SP2. Microsoft® Windows® XP Professional SP2 The language of the OS must be same as selected GUI language. Viewer Playback Control Play, Pause, FF, Prev Record, Next Record, Software Next image Downloaded image data can be converted to File Export Microsoft® Windows® Media-formatted file Additional Functions Alteration detection, Save as Bitmap Supported OS Microsoft[®] Windows[®] XP Home SP2 Microsoft[®] Windows[®] XP Professional SP2, English * Available from version 1.4 ** WJ-RT416, WJ-RT416K only





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- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
 - All TV pictures/menu are simulated.
 - Weights and dimensions are approximate.
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