

NTSC WJ-RT208 (120 V AC)
<With 2x 250GB HDD>
WJ-RT208K (120 V AC)
<Without HDD>

PAL WJ-HD88/G5 (220 ~ 240 V AC)
<With 2x 250GB HDD>
WJ-HD88/G10 (220 ~ 240 V AC)
<With 4x 250GB HDD>



MPEG-4

8CH Real-Time MPEG-4 Digital Disk Recorder supporting 240 ips (NTSC)/200 ips (PAL)

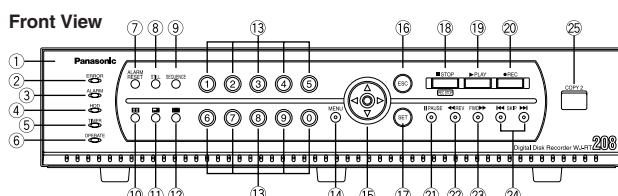
Key Features

- Records all 8 cameras at 30 ips (NTSC) / 25 ips (PAL)
- MPEG-4: High quality and high compression technology for economical recording
- Panasonic camera control via RS-485: Camera control can be made by front panel buttons, system controller or the monitoring software.
- Various recording modes: Manual, Timer, Event (Pre/Post)
- Flexible recording/playback controls: Recorder control can be made by the front panel buttons, a system controller or the monitoring software.
- Various display modes: 4 / 6 / 9 split screen display (Live), Quad (Playback)
- Eight alarm inputs and three alarm outputs
- Synchronized audio recording for 8 channels
- Search menu includes camera channel, time date and event.
- 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: 14 x 10, Sensitivity: 01 ~ 99
- Recorded image data can be copied to USB HDD (FAT32) via COPY interface. Copied data can be played-back by the USB Client.
- A maximum of 2 TB (8x 250 GB) hard disk drives can be installed.
- Optional WV-CU650 or WV-CU950 system controllers can be connected (RS-485). Playback speed can be controlled by Jog/Shuttle.
- Built-in network interfaces (10Base-T / 100Base-TX) for remote monitoring and operation
- NetClient software (provided) enables Multi-recorder, Multi-site system, local recording and downloading recorded video and audio data to the client PC. Downloaded data can be transported by external storage media and played-back by the viewer software (provided).
- Up to 8 network clients can access a recorder at a time.
- Camera icons can be arranged in the map (bit map image).
- Alarm Center function can monitor and display alarms activated in multiple recorders.
- The clock of multiple recorders can be synchronized by the Time Sync Client.

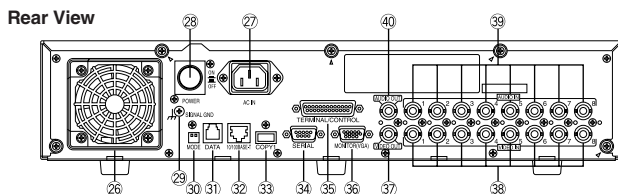
Standard Accessories

- CD-ROM* 1 pc.
- Operating Instructions 1 pc.
- * The following are included on the CD-ROM.
 - Network Operating Instructions (PDF)
 - Monitoring software (NetClient)
 - Viewer software
- The followings are for installation.
 - Power cable for NTSC model (for NTSC model) .. 1 pc.
 - Power cable for PAL model (for PAL model) .. 2 pcs.
 - HDD mounting screw, sleeve, damper (for WJ-HD88/G5) 24 pcs. each.
 - (for WJ-HD88/G10) 16 pcs. each.
 - (for WJ-RT208K) 32 pcs. each.
 - (for WJ-RT208) 24 pcs. each.
 - Rack mounting brackets 2 pcs.
 - Fixing screw for rack mounting brackets 8 pcs.

Part Names and Functions



- | | | |
|-----------------------------|----------------------------|----------------------------|
| ① Front Panel | ⑩ 4-split Screen Button | ⑲ Play Button |
| ② Error Indicator | ⑪ 6-split Screen Button | ⑳ Recording Button |
| ③ Alarm Indicator | ⑫ 9-split Screen Button | ㉑ Pause Button |
| ④ HDD Access Indicator | ⑬ Camera Selection Buttons | ㉒ Fast Reverse Play Button |
| ⑤ Timer Recording Indicator | ⑭ Menu Button | ㉓ Fast Forward Play Button |
| ⑥ Operate Indicator | ⑮ Direction Button | ㉔ Skip Playback Button |
| ⑦ Alarm Reset Button | ⑯ Cancel Button | ㉕ Copy Connector |
| ⑧ Still Button | ⑰ Set Button | |
| ⑨ Sequence Button | ⑱ Stop Button | |



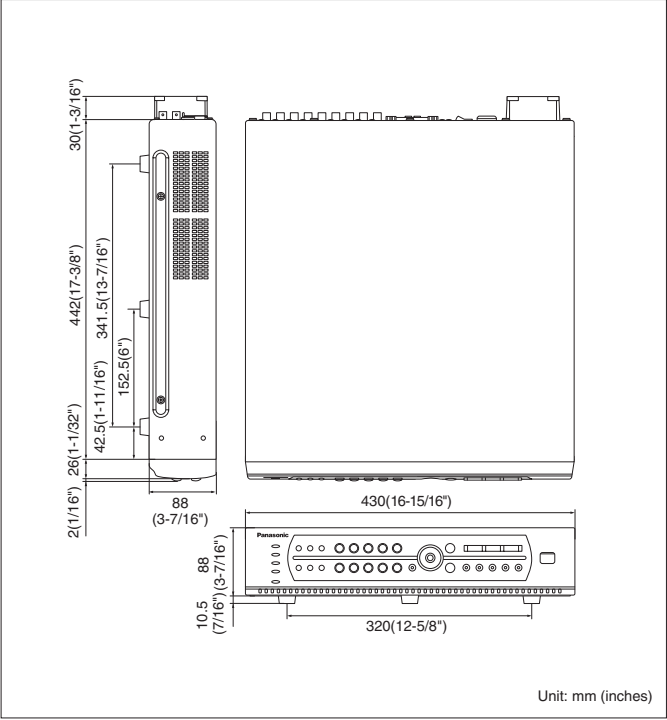
- | | | |
|-------------------------------|----------------------------|--------------------------|
| ㉖ Power Cooling Fan | ㉛ Data Port | ㉞ VGA Output Port |
| ㉗ AC Power Connector | ㉜ 10Base-T/100Base-TX Port | ㉟ Video Output Connector |
| ㉘ Power Switch | ㉝ Copy Port | ㊱ Video Input Connectors |
| ㉙ Signal Ground Terminal | ㉞ Serial Data Port | ㊲ Audio Input Connectors |
| ㉚ Mode Selection DIP Switches | ㉟ Terminal/Control Port | ㊳ Audio Output Connector |

Specifications

TV System			NTSC	PAL
Audio / Video IF	Video Inputs		8x 1.0 V [p-p] / 75 Ω NTSC composite video inputs (BNC)	8x 1.0 V [p-p] / 75 Ω PAL composite video inputs (BNC)
	Video Outputs		Monitor 1: 1.0 V [p-p] / 75 Ω NTSC composite video signal (BNC) Monitor 2: RGB output (15 pin D-sub)	Monitor 1: 1.0 V [p-p] / 75 Ω PAL composite video signal (BNC) Monitor 2: RGB output (15 pin D-sub)
	Audio Inputs		8x –10 dB 22 KΩ (BNC)	
	Audio Output		1x –10 dBV, 22 KΩ (BNC)	
Audio / Video Format	Video	Image Resolution	SIF (352 x 240 pixels) CIF (352 x 288 pixels)	
	Format	Video	MPEG-4: Super Fine (SF), Fine (FQ), Good (GQ), Normal (NQ), Extended (EX), Independent for each camera	
	(Recording and NW)	Color Mode	4 : 1 : 1	
Recording	Audio Compression Method		ADPCM 8 Kbps, 8 Bit	
	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 for each camera except for manual REC	
Main Unit Functions	Frame Rate Total		240 ips	200 ips
	Pre-alarm Recording		Minimum 5 sec.	
	Camera Control		Pan/Tilt, Zoom, Focus, Iris, Preset position call and program (up to 256), Auto mode, Setup menu.	
	REC/Playback Control		REC, PLAY, Pause, Stop, Fast Rev Play (3 steps), Fast Fwd Play (3 steps), Slow Play, Next Record, Prev Record, Step Fwd, Step Back	
	Search Mode		Search criteria: Time date, Record type, Camera number	
	Display Mode		4 / 6 / 8 split screen display (Live), Spot sequence, Dwell time 2 ~ 30 sec.	
	Camera Title		Alpha numeric, Up to 10 Characters	
	Clock Display		OSD, Image embedded, 24H (fix), Date: yyyy/mm/dd (fix)	
	Time Synchronization		By the Monitoring Software (provided)	
	VMD		Mask area: 14 x 10, Sensitivity: 01 ~ 99	
	Video Loss Detection		Supported (Sync Level)	
	Copy to External Media		Recorded images can be copied to external HDD	
	User Level/Registrations		3 levels: Manager (1 user), Operator (1 user), Viewer (1 user), User level-Camera partitioning available. Applicable for Main unit and NW users	
	System Log		System log (300), Event log (300)	
	System Setup		OSD Setup menu (English, Chinese, Japanese)	
Alarm	Alarm Source		8x Terminal inputs, VMD	
	Alarm Action		Alarm recording, Alarm message, Camera spot with positioning, Terminal output, Buzzer, LED	
	Alarm Control		Reset	
	Alarm Log		300	
Network	Network Interface		10Base-T / 100Base-TX (RJ-45)	
	Maximum Bandwidth		Apporox. 14 Mbps (Data download at Non-recording status)	
	Supported Protocol		TCP/IP, UDP/IP	
	No. of Simultaneous Users		8x spot or 2x Quad or 1x 9 split (Total number of displays is 8)	
	Security Method		User authentication	
External IF	Alarm/Control Connector	Alarm	8x Terminal inputs (25 pin D-sub, Make contact), 3x Alarm outputs (25 pin D-sub, Relay, N.O./N.C)	
		DATA Interface	1x RS-485 (RJ-11) PS-Data compatible for control from WV-CU650, WV-CU950	
	RS-485 Camera Interface		1x RS-485 (RJ-11), 4wire, full duplex, for 1 ~ 8 CH	
	Copy Interface		High speed serial interface (USB TypeA connector front/rear)	
HDD	HDD		WJ-RT208: 2x 3.5-type 250 GB HDD, WJ-RT208K: Without HDD Up to 8x 500 GB HDDs can be installed.	WJ-HD88/G5: 2x 3.5-type 250 GB HDD, WJ-HD88/G10: 4x 3.5-type 250 GB HDD Up to 8x 500 GB HDDs can be installed.
	General Specifications		Safety/EMC Standard UL(6500 Edition2), FCC(Part15 ClassA), CE (EN60065, EN55022, EN55024, ClassB), GOST (R 51558). Power Source 120 V AC, 60 Hz Power Consumption 120 W Ambient Operating Temperature +5 °C ~ +45 °C (41 °F ~ 113 °F) Ambient Operating Humidity 5 % ~ 90 % (without condensation) Dimensions 430 mm (W) x 88 mm (H) x 470 mm (D) (16-15/16" (W) x 3-7/16" (H) x 18-1/2" (D)) (excluding rubber feet and projections) Weight WJ-RT208: 10.0 kg (22.0 lbs.), WJ-RT208K: 9.0 kg (19.9 lbs.) WJ-HD88/G5: 10.0 kg (22.0 lbs.), WJ-HD88/G10: 11.0 kg (24.2 lbs.)	
Functions with System Controller	Camera Control		Pan/Tilt, Zoom, Focus, Iris, Preset position call and program (up to 256), Auto mode, Setup menu.	
	REC/Playback Control		REC, PLAY, Pause, Stop, Fast Rev Play (3 steps), Fast Fwd Play (3 steps), Slow Play, Next Record, Prev Record, Step Fwd, Step Back	

TV System		NTSC	PAL
Monitoring Software	Number of Recorder Registrations		Unlimited
	Camera Control		Pan/Tilt, Zoom, Focus
	Recorder Control		REC, PLAY, Pause, Stop, Prev Record, Next Record, Next Image, Play Speed (1, 2, 4, 1/2, 1/4 times), Time Slider
	Search Mode		Search criteria: Time date, Record type, Camera number
	Display Mode		1 / 4 / 6 / 9 split screen display (Live/Playback), Sequence display
	Map Display		One map per recorder including 8 camera icons
	Record Download		Supported
	Camera Title		Up to 24 alphanumeric characters
	Recorder Title		Up to 24 alphanumeric characters
	Clock Display		OSD, Image embedded, 24H (fix), Date: yyyy/mm/dd (fix)
	Audio		AUX: Bi-directional between client PC and Recorder with the remote talk function. Audio input 1 ~ 8: Single directional from recorder to PC (Live and Playback)
	Alarm Notification		Alarm at a recorder can be notified by alarm center function
	Local Recording		Possible for Local recording of single channel at a time
	Local Search and Playback		Downloaded records and local recordings can be searched by camera channel and time date, and played-back locally.
	Recorder Setup		GUI Setup menu
Viewer Software	Logs		System log, Event log
	GUI Language		English, Chinese, Japanese
	Required PC		CPU: Intel® Pentium® 4 2.4 GHz or faster, RAM: 512 MB or more, VRAM: 64 MB or more, Overlay compatible, Microsoft® DirectX® 8.0a or later
	Supported OS		Microsoft® Windows® XP Home/Professional SP2 English, Microsoft® Windows® 2000 Professional SP4 English
	Playback Control		Play, Pause, Speed (0.3 ~ 4x), Prev Record, Next Record, Next Image
	Additional Functions		Save as Bitmap, Local cutout copy, Audio ON/OFF.
Supported OS	Microsoft® Windows® XP Home/Professional SP2 English, Microsoft® Windows® 2000 Professional SP4 English		

Appearance



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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.

- All TV pictures/menu are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
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