

Panasonic
ideas for life

Digital Disk Recorder
WJ-RT416

Real-time

400 ips with High Resolution:
The new standard in high performance
with superb picture quality at an affordable price



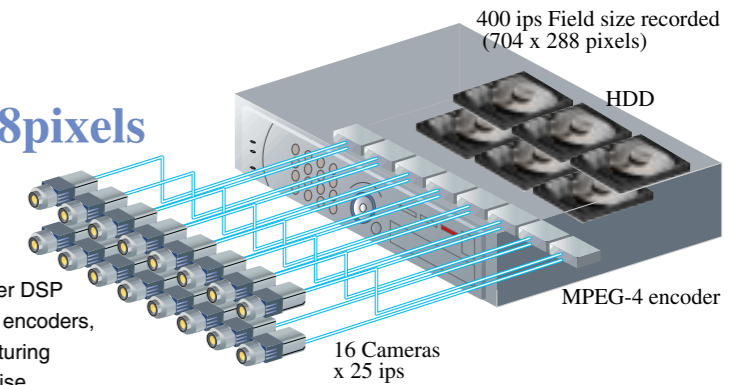
High Resolution Real-time Recording

With a total recording rate of 400 ips, the WJ-RT416 offers real-time recording capability in MPEG-4 format. All 16 channels can record 25 ips at a high quality 704 x 288 image with superior clarity and detail.

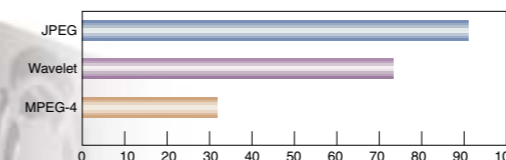
400ips at 704 x 288pixels

Record all 16 cameras at 25 ips

The WJ-RT416 offers superior technology in order to maximize the encoding capability. The WJ-RT416 utilizes one MPEG-4 encoder DSP for every 2 channels --- for a total of 8 built-in encoders! With 8 total encoders, the WJ-RT416 ensures that no critical moments are missed. By capturing 25 ips, video confirmation of event and evidence are extremely precise.



MPEG-4 is an extremely efficient compression method suitable for the recording of video as it captures the smooth movement of objects resulting in excellent video quality. The high compression efficiency of MPEG-4 allows more effective disk utilization and longer recording. Data can be transferred over the network using a smaller bandwidth, allowing for smoother viewing of moving objects, even in the multiscreen mode.



MPEG-4

High-quality and high-compression for economical recording

Seamless

Control of the camera, recorder and switcher can be made using only a single controller

A single system controller (WV-CU650) controls the WJ-RT416, PTZ cameras and Matrix switcher (WJ-SX650 series) seamlessly.



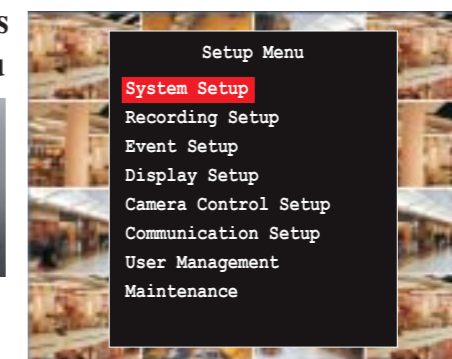
Notes: •Connection with WV-CU650 is a plan for future.
•Connection with the System650 is a plan for future.

Simple Operation

Simple and easy-to-use panels and on-screen set up menu



- Enlarged frequently used buttons
- Primary operations can be performed using the front panel cross pad and adjacent buttons (not actual size).



Easy, intuitive set up menu

Optional storage of up to 1.5TB for extended video archiving

With flexible configurations from 250GB to 1.5TB, the WJ-RT416 allows for flexibility based upon the application and number of cameras needed.

Digital Disk Recorder WJ-RT416

16 channels of video and audio in a cost effective package

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.

A Full Featured system in an affordable and cost effective format --- perfect for stand-alone or system applications



Recording

16 video input channels, 16 audio input channels

Up to 16 cameras can be connected to the WJ-RT416. All 16 channels of video and audio can be recorded simultaneously.

Video recording of 25 ips per camera

The WJ-RT416 offers the ability to record video at a maximum rate of 25 ips per camera, for all 16 channels.

Overall maximum HDD capacity can grow, as the application and system needs to grow

The WJ-RT416 is designed to grow as the situation dictates. To that end, the current maximum HDD capacity of 1.5TB will be able to be expanded to 3TB in the near future. As needed, you can increase the HDD capacity by installing additional HDD's (sold separately) by simply removing the front panel of the WJ-RT416 and installing the new, larger capacity HDD.



Multiple recording functions

Timer recording : By setting up the days of the week and the time frame for each individual camera, automatic recording, recording rate and alarms, etc., can be set individually for specific time frames.

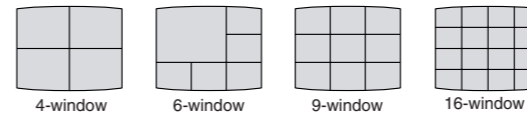
Motion detection recording : When motion is detected in the image of the camera, recording starts automatically.

Terminal input recording : Recording is started by events such as input signals from sensors.

Live Monitoring

Multi screen display

The monitor screen is divided into multiple frames and images from multiple cameras that can be observed at the same time. The screen can be divided into 4, 6, 9 and 16 windows.

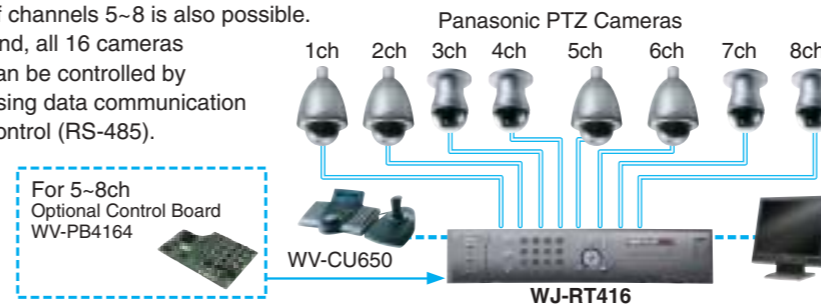


Coaxial control of the camera

By connecting the system controller (WV-CU650), PTZ cameras connected to channels 1~4 of the WJ-RT416 can be directly controlled.

Through installation of the WV-PB4164 board (optional) control of channels 5~8 is also possible.

And, all 16 cameras can be controlled by using data communication control (RS-485).

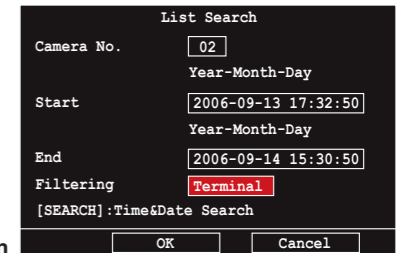


Note: •Connection with WV-CU650 is a plan for future.

Search and play back

User friendly search

Recorded data can be searched by various criteria such as time date, camera number, text and record type (Manual, Timer, Alarm, Terminal alarm, VMD Alarm). Search result list is displayed on the monitor and playback operation can be made easily from the list.



Criteria Input Screen

CH	Quality	Start	End
2	NQ	2006-09-14 15:09:03	2006-09-14 15:24:03
2	NQ	2006-09-14 14:54:01	2006-09-14 14:59:01
2	NQ	2006-09-14 14:38:59	2006-09-14 14:53:59
2	NQ	2006-09-14 14:23:57	2006-09-14 14:38:57
2	NQ	2006-09-14 14:08:55	2006-09-14 14:23:55
2	NQ	2006-09-14 13:53:53	2006-09-14 14:08:53
2	NQ	2006-09-14 13:38:51	2006-09-14 13:53:51
2	NQ	2006-09-14 13:23:49	2006-09-14 13:38:49

Search Result

Full Network Capability

With the WJ-RT416 connected to a network and the included software installed on a PC, monitoring and a variety of setting adjustments can be made from the PC.

Major Operational Functions via PC

Monitoring of camera image

Live image of the camera can be monitored

Play back of the recorded image

Images recorded in the HDDs of the WJ-RT416 can be played back and monitored

Various setting adjustments

Various setting adjustments, such as the recording rate, can be managed via the PC

Alarm information

Date and time when an alarm took place and type of alarm

Image download

Video displayed on the PC and audio can be saved into the PC

Video and audio recorded in the WJ-RT416 can be downloaded into the PC



Monitoring Software (included with the Product)

The above photographs were taken for the purpose of this explanation; actual performance and images may vary depending on environmental or other conditions.

Seamless operation with the System650 and Multi-site operation with the monitoring software for larger scale application

Local system

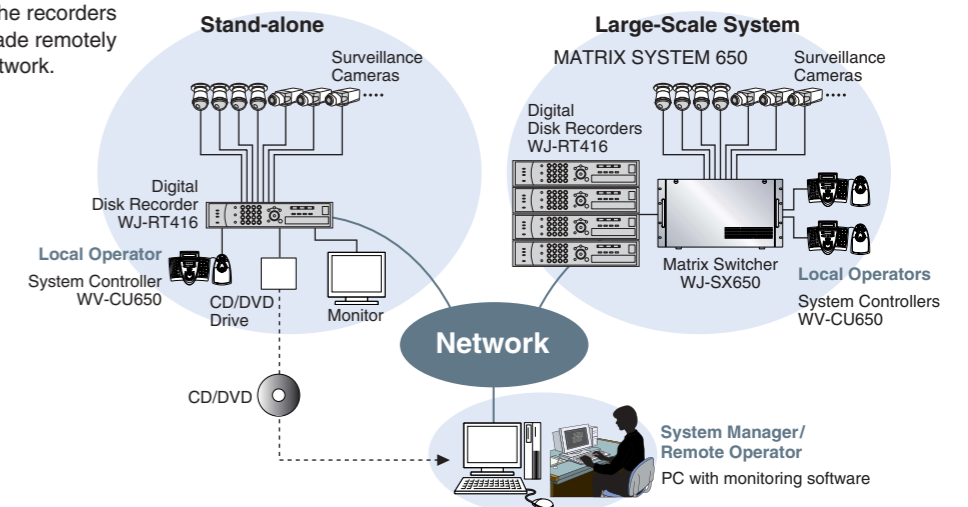
Stand-alone: Cameras, Matrix switcher and recorders can be controlled by single system controller.

Large-Scale System: Cameras connected to the recorder can be controlled by the system controller via the coax or RS-485.

Multi-site system

•Cameras connected to either the recorders or System650, and the recorders can be controlled by the monitoring software via the network.

•Setup of the recorders can be made remotely via the network.



Data copy to external media

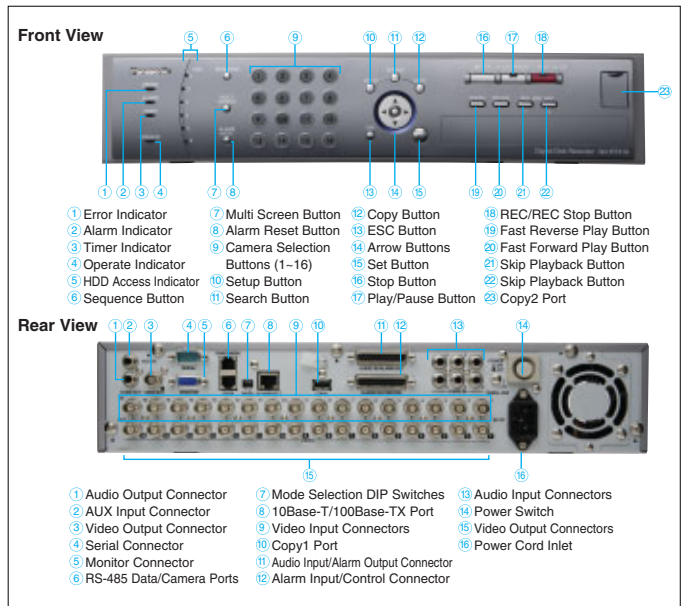
The recorded image data can be copied to external HDD, DVD or CD.

Notes: •Connection with WV-CU650 is a plan for future. •Connection with the System650 is a plan for future. •Copy to external media is a plan for future.

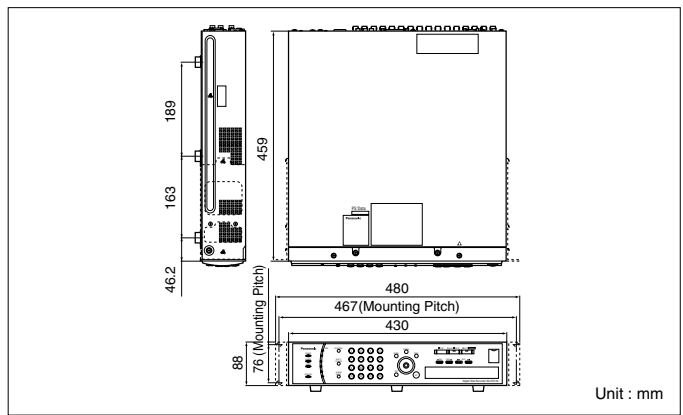
SPECIFICATIONS PAL

Audio / Video IF	Video Inputs	1.0 V [p-p] / 75 Ω PAL composite video signal (BNC) x 16 with auto termination loop through output x 16, Multiplexed control data (1 ~ 4CH)
	Video Outputs	1.0 V [p-p] / 75 Ω PAL composite video signal (BNC) x 1
	Monitor Output	RGB output x 1 (15pin D-sub)
	Audio Inputs	1 ~ 16CH: -10 dBV, 51 KΩ (CH1 ~ 6: RCA, CH7 ~ 16: 25pin D-sub) AUX: -52 dBV, 2.2 KΩ x 1 (RCA)
Audio / Video Format	Audio Output	-10 dBV, 1 KΩ (RCA) x 1
	Video Compression	MPEG-4
	Image Resolution	Field (704 x 288 pixels), SIF (352 x 288 pixels)
	Image Recording Rate	Max. 400 ips/system (25 ips x 16ch)
Network	Audio Compression Method	ADPCM
	Network Interface	10Base-T/100Base-TX (RJ-45) x 1
Functions	Security Method	User authentication
	Recording Mode	Manual, Alarm, Timer
	Search Mode	Search criteria: Time date, Record type, Camera number
	Multiscreen Mode	1/4/6/9/16 split screen display (Live)
	Sequence Mode	Spot sequence, Quad sequence, Dwell time 5 ~ 30 sec.
	VMD	Mask area: 24 x 20, Sensitivity: 01 ~ 99
	User Level	3 levels: Manager, Operator, Viewer
	Camera Title	Alpha numeric, Up to 10 Characters
	Clock Display	OSD, Image embedded and on the monitoring software
	System Log	Access log (100), Error log (100), Operation log (500)
	Setup Method	OSD Setup menu (English, Chinese, Japanese), Monitoring software (English, Chinese, Japanese)
	Alarm	Alarm Source
Alarm Action		Alarm recording, Email notification*, Alarm message, Camera spot with positioning, Terminal output. (* By Version UP)
Alarm Log		9,990
External IF	Alarm/Control Connector	Alarm input x 16 (25pin D-sub, Make contact) Alarm output x 4 (25pin D-sub, Relay, N.O./N.C.)
	Control	Time adjust input
	Error/Warning	HDD error output, Error output
	DATA Interface	RS-485 (RJ-11) x 1
General	RS-485 Camera Interface	RS-485 (RJ-11) x 1, 4 wire, full duplex
	Copy Interface	High speed serial interface (USB TypeA connector front x 1, rear x 1)
	Power Source	AC 220 V ~ 240 V 50 Hz
	Power Consumption	110 W
	Ambient Operating Temperature	+5 °C ~ +45 °C
	Ambient Operating Humidity	5 % ~ 90 % (no condensation)
	Dimensions	430 mm (W) x 88 mm (H) x 459 mm (D) (excluding rubber feet and projections)
Weight	12 kg	
Monitoring Software	Number of Recorder Registration	Unlimited
	Multiscreen Mode, Live/Playback	1/4/6/9/16 split screen display
	Favorite Display	10 Favorites, Multiple recorders can be mixed.
	Camera Control	Pan/Tilt, Zoom, Focus, Iris, Preset position (up to 256), Auto mode, Setup menu
	Record Download	Supported
	Local Recording	Supported
	Audio	AUX: Bi-directional between client PC and Recorder. Audio input 1 ~ 16: Single directional from recorder to PC (Live and Playback)
	File Export	Downloaded file can be converted to AVI.
	Setup Data Download	Download/Upload supported
	Language	English, Chinese, Japanese
Supported OS	Windows XP Home/Professional SP2	

MAJOR OPERATING CONTROLS & TERMINALS



DIMENSIONS



OPTIONAL COMPONENTS & ACCESSORIES

Control Board WV-PB4164 	Weather Proof Super Dynamic III Colour Dome Cameras WV-CW960 Series 	Super Dynamic III Colour Dome Cameras WV-CS950 Series 	Vandal Proof Super Dynamic III Colour Dome Cameras WV-CW480 Series 	Colour Dome Cameras WV-CF294/284 
	Super Dynamic III Colour Surveillance Cameras WV-CP480 Series  <p>Lens: optional</p>	Colour Surveillance Cameras WV-CP280 Series  <p>Lens: optional</p>	Weather Proof Super Dynamic II Colour Cameras WV-CW370 Series 	MATRIX SYSTEM 650 

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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 are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

DISTRIBUTED BY:

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