



Network Disk Recorder with 2 removable HDD slots for digital image data from up to 16 Network Cameras

Key Features




- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded.
- Various Recording Modes: Manual, Schedule, Event (Pre/Post), Emergency, External Timer
- Various alarm sources include 16x Terminal inputs, 16x Camera alarm, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
- Panasonic Camera Control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on camera model).
- Audio from the **i-PRO** network cameras can be recorded and played back, G.726 (ADPCM) 32 kbps.
- Cameras may be assigned to one of the 4 groups to meet application requirements.
- Flexible Playback Controls: Goto Date (Jump to specific time/date), Goto Last (Jump to 5 s ~ 5 min. before the record end).
- Various Display Modes: Spot, Quad (4 patterns), Spot Sequence, Quad Sequence (Sequence: Live only).
- 4 Quad screens are fully programmable. Any of the 16 cameras can be assigned to any area of the Quad screens.
- Filtered Search: Time & Date, Event Type, Camera number, Text
- Recorded images can be downloaded to a PC.
- Downloadable viewer software allows playback of images downloaded from the Recorder.
- Built-in network interface (10Base-T / 100Base-TX) for recording and client access
- Quick IP Setup for Panasonic **i-PRO** series network cameras
- Bandwidth control: 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited
- Up to 4 clients can monitor image and control WJ-ND200 simultaneously.
- Image transfer to FTP server: Recorded image upon alarm and/or live image periodically
- Performance measurement function for appropriate recording frame rate setup
- SD memory recordings initiated by network failure in the **i-PRO** series cameras can be transferred automatically or manually to the recorder even when the recorder is in recording status.

- Up to 2 removable HDDs can be installed. (2.5 type Serial ATA HDD)
- The removable HDD can be connected to a PC via USB-SATA convertible cable and played back with provided HDD viewer software.
- Alarm notification by e-mail
- User/Host authentication, 4 user levels and User-Camera View/Control partitioning set up for sophisticated user management of up to 32 user registrations.
- Multi-recorder, Multi-site system can be made with optional WV-ASM100 i-PRO Management Software.
- RAID1 mirroring capability
- Vertical installation is possible with the optional WV-Q201 Vertical Stand.

Standard Accessories

• CD-ROM*	1 pc.	The followings are for installation:
• Installation Guide	1 pc.	• Power Cord (NTSC model)
* The CD-ROM contains the operating instructions (PDFs and the software).		• Power Cord (PAL model)
		• Key
		• Brace (for the power cord)

Optional Accessories

<p>Rack Mount Bracket WV-Q200</p> 	<p>Vertical Stand WV-Q201</p> 
<p>Removable HDD WJ-HDD50 (500 GB)</p> 	

Specifications

TV System	NTSC	PAL
Supported Cameras	Panasonic i-PRO series Network cameras, BB series (specific models) and Axis® (specific models)	
Cameras	Supported Image Format: H.264, MPEG-4 (Specific cameras), JPEG, M-JPEG	
	Supported Image Resolution: 1,280 x 960, 960 x 720, 640 x 480, 320 x 240 (Depending on the camera)	
	Supported Audio Format: G.726 (ADPCM) 32 kbps	
	Maximum Number of Cameras: 16	
Recording	Recording Mode: Manual, Event, Schedule, Emergency, External timer	
	Pre-alarm Recording: Up to 30 seconds	
	Scheduled Recording Mode: 4 programs, 6 time zones/day, Independent setup for each day of the week	
	Frame Rate/Camera: Up to 30 ips (Depending on the Camera)	
Browser GUI	Camera Control: Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset	
	REC/Playback Control: REC, PLAY, Rev PLAY, Pause, Stop, FF, REW, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (5 s - 5 min.), Text display	
	Search Mode: Search criteria: Time date, Event type, Camera number, Text ON/OFF	
	Display Mode: 4x Spot/Quad groups/Spot Sequence/Quad Sequence (Sequence: Live only)	
	Camera Grouping: 4 groups each with 16 characters title	
	Image Download: Recorded data of selected camera and time range can be downloaded to a PC. Viewer software can be downloaded separately.	
	SD Memory Data Download: SD recording associated with network error in the i-PRO series cameras can automatically be transferred to the recorder.	
	Camera Title: On the browser, Up to 16 characters	
	Clock Display: On the browser. Time: 12H/24H, Date: 3 formats (YY.MM.DD, MMM.DD.YY, DD.MMM.YY)	
	Alarm Control: Reset, Suspend	
	Digital Zoom: Up to 4 times, Mouse wheel control supported	
	Text Attachment: Free comment can be attached for each record and reviewed at later time. Up to 200 characters	
	System Logs: Operator access (100), Network error (1,000), Error (100), Event (750)	
	System Setup: Setup page in English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	Time Synchronization: Terminal (Master or Slave), NTP (Client)	
	Summer Time: User definable (using menu setup)	
	GUI Language: English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	Supported OS: Microsoft® Windows® 7 Professional 64 bit/32 bit & Windows® Internet Explorer® 8.0 32 bit, Microsoft® Windows Vista® 32 bit SP1 & Windows® Internet Explorer® 7.0, Microsoft® Windows® XP Home/Professional SP3 & Windows® Internet Explorer® 6.0	
	The language of OS must be the same as selected GUI language.	
	Required PC	JPEG/MPEG-4 H.264 CPU: Intel® Pentium® 4 3.0 GHz or faster, RAM: 1 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later CPU: Intel® Core™ i7-920 or faster, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later
Alarm/Event	Alarm Source	16 x Terminal inputs, 16 x Camera alarms, Panasonic Alarm Protocol
	Alarm Action	Alarm recording, e-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator
	Alarm Control	Reset, Suspend
	Event Log	750 logs
Network	Network Interface	10Base-T/100Base-TX (RJ-45)
	Maintenance Port	10Base-T (RJ-45)
	Maximum Band Width	Total 48 Mbps
	Bandwidth Control	32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited
	Supported Protocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP
	E-mail	Upon Alarm or Warning
	No. of Client at a Time	4
	FTP Client	Upon alarm or Periodic transfer
	User Registration	Up to 32 users
	User Level	4 Levels (Programmable)
	Partitioning	User - Camera (View only, View & Control, No Access)
	Security Method	User authentication (ID and Password), Host authentication (IP address), Alteration detection
External Interface	Alarm Connector (25pin D-sub)	Alarm Alarm input 1 ~ 16 ¹ , Alarm output 1 ~ 7 ²
	Alarm/Control Connector (25pin D-sub)	Alarm Alarm output 8 ~ 16 ² , Alarm suspension input ¹ , Alarm reset input ¹ Control Emergency recording input ¹ , Power outage detection input ¹ , External recording mode switching ¹ , Power outage recovery completion output ³ , Time adjustment input/output ⁴ , +5 V output ⁵ Error/Warning Network error output ² , Available disk space warning output ² , HDD error output ² , Camera error output ² , Error output ²
HDD	Type	Up to 2 removable HDDs (2.5 type Serial ATA HDD)
	RAID	RAID1 Mirroring mode supported
Viewer Software	Playback Control	Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image
	Additional Functions	Alteration detection, Save as JPEG, Two times zoom, Print
	Supported OS	Same as browser GUI, Language of the software is English.
HDD Viewer Software	Playback Control	Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image
	Additional Functions	Search (Time date, Event type, Camera number), Save as JPEG, Print, HDD Check
	Supported OS	Same as browser GUI, Language of the software is English.
Admin Software	Supported OS	Same as browser GUI, Language of the software is English.
Quick IP Setup Software	Supported OS	Same as browser GUI, Language of the software is English.

Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
- Axis is a registered trademark of Axis Communications AB.
- Intel and Pentium are trademarks of Intel Corporation.
- "Super Dynamic", "SDI", "SDII", "SD5", "SD5Link", "i-PRO" and "i-PRO SmartHD" logos are trademarks or registered trademarks of Panasonic Corporation.

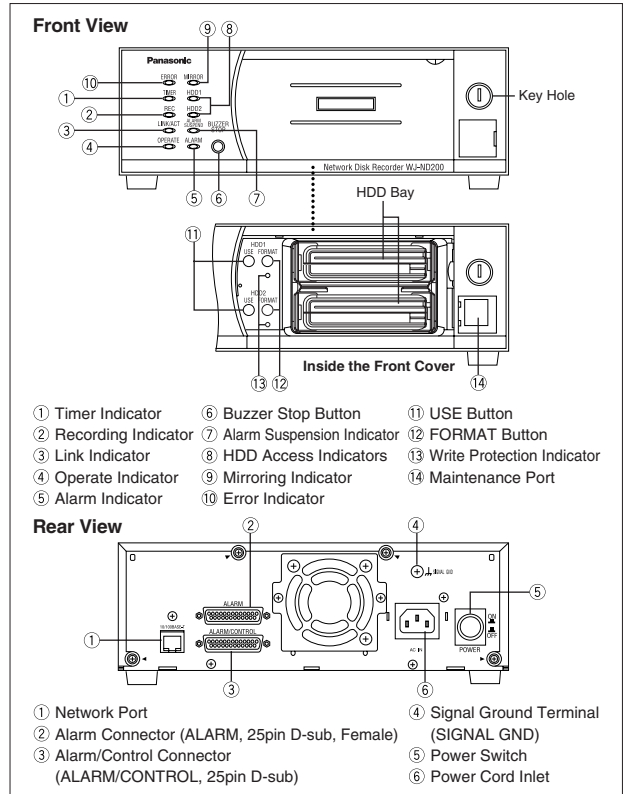
Important

- 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.

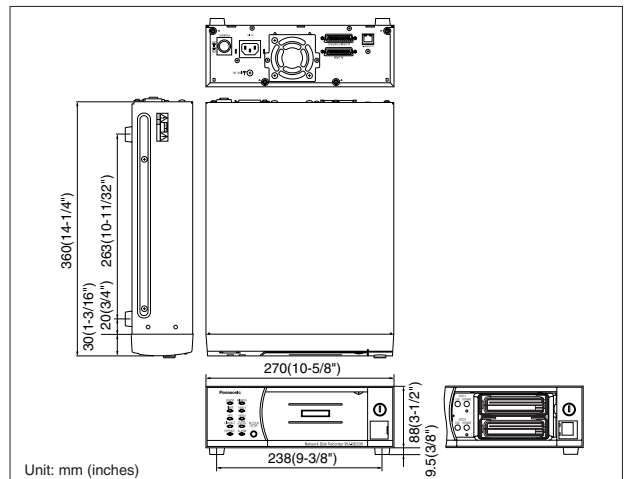
TV System	NTSC	PAL
General Specifications	Safety/EMC Standard: UL (6500), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA)	CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558)
	Power Source: 120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz
	Power Consumption: approx. 35 W	
	Ambient Operating Temperature: +5 °C ~ +45 °C (41 °F ~ 113 °F)	
	Ambient Operating Humidity: 5 % ~ 90 % (without condensation)	
	Maximum Operating Altitude: 2,000 m (6,500 feet) above sea level	
	Dimensions: 270 mm (W) x 88 mm (H) x 360 mm (D) (10-5/8"(W) x 3-1/2"(H) x 14-1/4"(D)) (excluding rubber feet and projections)	
	Mass: 4.7 kg (10.3 lbs.)	

*1: Non-voltage make contact, +5 V pull-up 150 Ω *2: Open collector output, 24 V max., -100 mA
*3: High (+5 V ~ +12 V, 6.3 mA maximum) *4: 52 kΩ, 5 V pull-up, -100 mA / make contact *5: 200 mA at maximum

Part Names and Functions



Appearance



- All TV pictures are simulated.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- All product pictures are NTSC models.

DISTRIBUTED BY:

Panasonic

<http://panasonic.net/security/>

Printed in Japan (2A-002EA)