

Network Disk Recorder WJ-ND300A

 $\hline \textbf{NTSC} \ \textbf{WJ-ND300A} \ (120 \ \textbf{V} \ \textbf{AC}) \quad \boxed{\textbf{PAL}} \ \textbf{WJ-ND300A} \ (220 \ \sim \ 240 \ \textbf{V} \ \textbf{AC})$



Network Disk Recorder with expandable capacity for digital image data from up to 32 Network Cameras

Key Features

- H.264, MPEG-4 and JPEG multi format
- Up to 32 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 alarms, 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).
- · Cameras may be assigned to one of the 8 groups to meet application requirements.
- Flexible Playback Controls: A-B Repeat, Goto Date (Jump to specific time/date), Goto Last (Jump to 5 sec. ~ 5 min. before the record end).
- Various Display Modes: Spot, Quad (8 patterns), Spot Sequence, Quad Sequence.
- 8 Quad screens are fully programmable. Any of the 32 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.
- 2 setup modes available, Quick/Advanced at users' preference.
- 2 built-in network interfaces (10Base-T/100Base-TX) for camera access and client access. Operation by one port is also possible.
- 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 8 clients can monitor images and control WJ-ND300A simultaneously.
- Image transfer to FTP server: Recorded image upon alarm and/or live image periodically
- Performance measurement function for appropriate recording frame rate setup

- Images recorded on the SD memory card in the i-Pro series cameras can be downloaded to the recorder manually. In addition, recordings upon network failure can be transferred automatically when the recorder is in non-recording status.
- · 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.
- Front panel LCD screen for status display
- HDD capacity is expandable with 4 HDD slots in the main unit and up to 6 WJ-HDE300 optional Extension Units each with 4 HDD slots.
- Disk partitioning for flexible record management: Normal, Event, Copy
- HDD Safety Mode to protect HDDs during the installation of WJ-ND300A
- RAID5 capability with optional WJ-NDB301 RAID5 Board

Standard Accessories

• CD-ROM*1 pc.	Rack Mount Bracket
Installation Guide 1 pc.	 Hard Disk Drive F
The followings are for installation:	(w/sleeve and dar
Power Cord (NTSC model) 1 pc.	* The CD-ROM contain
Power Cord (PAL model) 2 pcs.	instructions (PDFs) a (Panasonic IP setup
Rack Mount Bracket 2 pcs.	(i dildollio ii cotap

et Fixing Screw ... 4 pcs Fixing Screw mper) 12 pcs.

ns the operating and the setup tools software, etc.).

Optional Accessories

BAID5 Board

WJ-NDB301 HDD units) Power Source

Extension Unit WJ-HDE300 (4 HDD slots for optional



Power Consumpti Dimensions

: 120 V AC, 60 Hz (NTSC) 220 ~ 240 V AC, 50 Hz (PAL) approx. 85 W (including 4 HDDs when installed)

420 mm (W) x 88 mm (H) x 350 mm (D) (19-9/16" (W) x 3-7/16" (H) x 13-13/16" (D)) (excluding rubber feet and projections)

: 7.2 kg (16 lbs.) (When no HDD exist)

Weight

Specifications

	1		NTSC PAL	
	Supported Ca	ameras	Panasonic i-Pro series Network cameras. (Contact Panasonic for BB series and Axis® cameras	
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)	
	Maximum Number of Cameras		32	
Recording	Recording Mode		Manual recording, Scheduled recording, Emergency recording,	
			External timer recording, Event recording	
	Pre-alarm Recording		Up to 60 minutes. Dedicated HDD for Pre-alarm is required	
	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 and Network)	
Browser	Camera Control		Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode	
GUI	REC/Playback Control		REC, PLAY, Rev PLAY, Pause, Stop, FF, REW, Prev Record, Next Record, Prev Image	
			Next Image, A-B Repeat, Goto Date, Goto Last (5 sec. ~ 5 min.), Text display	
	Search Mode		Search criteria: Time date, Event type, Camera number, Text ON/OFF	
	Display Mode		Spot/Quad (8 patternes)/Spot Sequence/Quad Sequence (Live, Playback)	
	Camera Grouping		8 groups each with 16 characters title	
	Image Download		Recorded data of selected camera and time range (up to 20 min.) can be	
			downloaded to a PC. Viewer software can be downloaded separately.	
	SD Memory		Image data in the SD memory installed in the selected camera	
	Data Download		can be transferred to the recorder.	
	Сору		Recorded data of selected cameras and time date range can be copied to the COPY partition.	
	Camera Title		On the browser, Up to 16 characters	
	Clock Display		On the browser. Time: 12H/24H, Date: 3 formats	
	Alarm Control		Reset, Suspend	
	Digital Zoom		Up to 4 times	
	Text Attachment		Free comment can be attached for each record and reviewed at later time. Up to 200 characters	
	System Log		Operator access (100), Network error (1,000), Error (100), Event (750)	
	Time Synchronization		Terminal (Master or Slave), NTP (Client)	
	Summer Tim		User definable (using menu setup)	
	GUI / System Se			
	Supported O		Microsoft® Windows® 7 Professional 64 bit/32 bit & Windows® Internet Explorer® 8.0 32 bit	
	and Browser		Microsoft® Windows Vista® 32 bit SP1 & Windows® Internet Explorer® 7.0	
	Combination		Microsoft® Windows® XP Home/Professional SP3 & Windows® Internet Explorer® 6.0	
	Combination		The language of OS must be the same as selected GUI language.	
	Doguirod DC	IDEC/	CPU: Intel® Pentium® 4 3.0 GHz or faster, RAM: 1 GB or more.	
	Required PC	MPEG-4		
			VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later	
		H.264	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/	Alarm Source		16x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol	
Event	Event Mode		Alarm/Activity/OFF	
	Alarm Action		Alarm recording, E-mail notification, Alarm message, Camera positioning,	
			FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator	
	Alarm Control			
	Alarm Contro	ol	Reset, Suspend	
	Event Log		750	
Network			750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45)	
Network	Event Log Network Inte	rface		
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Network	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra	rface and Width ol (Client Port) rotocol at a Time	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users	
Network	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra User Level	rface and Width ol (Client Port) rotocol at a Time ation	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable)	
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External	Event Log Network Intel Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra User Level Partitioning Security Metl Alarm Connector (25pin D-sub) Alarm/	rface and Width ol (Client Port) rotocol at a Time attion and Alarm Alarm	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 ~ 16"1, Alarm output 1 ~ 7"2 Alarm output 8 ~ 16"2 Alarm suspension input"1, Alarm reset input"	
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External Interface	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registr User Level Partitioning Security Mett Alarm Connector (25pin D-sub) Alarm/ Control Connector (25pin D-sub) External Stra RS-232C	Ind Width ol (Client Port) rotocol at a Time attion and Alarm Control Error/ Warning	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 ~ 16*1, Alarm output 1 ~ 7*2 Alarm output 8 ~ 16*2 Alarm susupension input*1, Alarm reset input* 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 Network error output*2, Available disk space warning output*2, HDD error output*2, Camera error output*2, Error output*2 High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Uni	
External	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra User Level Partitioning Security Mett Alarm Connector (25pin D-sub) Alarm/ Connector (25pin D-sub) External Stra	Ind Width ol (Client Port) rotocol at a Time attion and Alarm Control Error/ Warning	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 ~ 16*1, Alarm output 1 ~ 7*2 Alarm output 8 ~ 16*2 Alarm supension input*1, Alarm reset input*1 Emergency recording input*1, Power outage detection input*1, Emergency recording input*1, Power outage recovery completion output*3, Time adjustment input/output*4, +5 V output*5 Network error output*2, Camera error output*2, Error output*2 HDD error output*2, Camera error output*2, Error output*2 High-speed serial intexed 80 Mbps (theoretical value) for WJ-HDE300 Extension Uni For servicing purpose only 1x 3.5 inch 250 GB HDD (Factory default),	
External Interface	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra User Level Partitioning Security Metl Alarm Connector (25pin D-sub) Alarm/ Control Connector (25pin D-sub) External Stra RS-232C Type	ind Width ol (Client Port) rotocol at a Time attion Alarm Control Error/ Warning ge	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 ~ 16*1, Alarm output 1 ~ 7*2 Alarm output 8 ~ 16*2 Alarm suspension input*1, Alarm reset input* Emergency recording input*1, Power outage detection input*1, Time adjustment input/output*4, +5 V output*5 Network error output*2, Camera error output*2, Error output*2, HDD error output*2, Camera error output*2, Error output*2 High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Uni For servicing punds can be installed. (Contact Panasonic for detail) Up to 4x 2 TB HDDs can be installed. (Contact Panasonic for detail)	
External Interface	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail User Registra User Level Partitioning Security Mett Alarm/Connector (25pin D-sub) Alarm/ Control Connector (25pin D-sub) External Stra RS-232C Type Maximum Ca	ind Width ol (Client Port) rotocol at a Time attion Alarm Control Error/ Warning ge	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTF Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 - 16*1, Alarm output 1 - 7*2 Alarm output 8 - 16*2 Alarm suspension input*1, Alarm reset input* 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 Network error output*2, Camera error output*2, Error output*2 High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Unit* For servicing purpose only 1x 3.5 inch 250 GB HDD (Factory default), Up to 4x 2 TB HDDs can be installed. (Contact Panasonic for detail) 56 TB (with 6x WJ-HDE300 Extension Units, 4x 2 TB HDDs installed in each unit)	
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External Interface HDD Viewer Software	Event Log Network Inter Maximum Ba Bandwidth Contr Supported Pr E-mail No. of Client User Registra User Level Partitioning Security Mett Alarm Connector (25pin D-sub) Alarm/ Control Connector (25pin D-sub) External Stra RS-232C Type Maximum Ca RAID Partitioning Playback Coi Additional Fu Supported OS Supported OS Supported OS	nd Width ol (Client Port) rotocol at a Time ation Alarm Control Error/ Warning ge	750 Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) Total 97 Mbps 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTF Upon Alarm or Warning 8 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Control, No Access) User authentication (ID and Password), Host authentication (IP address), Alteration detection Alarm input 1 ~ 16*1, Alarm output 1 ~ 7*2 Alarm output 8 ~ 16*2 Alarm suspension input*1, Alarm reset input* 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 Network error output*2, Camera error output*2, Error output*2 High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Unit For servicing purpose only 1x 3.5 inch 250 GB HDD (Factory default), Up to 4x 2 TB HDDs can be installed. (Contact Panasonic for detail) 8A10 Supported (with WJ-NDB301 RAID5 Board) Normal/Event/Copy Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image Alteration detection, Save as JPEG, Two times zoom, Print	

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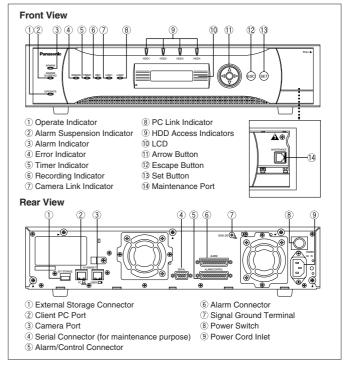
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- Important
 Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

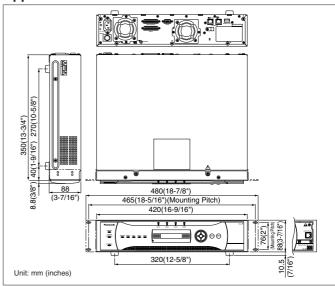
TV System	1	NTSC	PAL	
General	Safety/EMC Standard	UL (6500), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB, EN55024),	
Specifications		C-UL (E60065), DOC (ICES003 ClassA)	GOST (GOST R 51558)	
	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
	Power Consumption	approx. 85 W		
	Ambient Operating 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 420 m (W) x 88 mm (H) x 350 mm (D) (16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)) (excluding rubber feet and projections) 8.3 kg (18.3 lbs.)		
	Dimensions			
	Weight			

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

Part Names and Functions



Appearance



- · 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.
- All product pictures are NTSC models.

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