

## Network Disk Recorder WJ-ND300A

NTSC WJ-ND300A (120V AC) PAL WJ-ND300A (220V ~ 240V AC)









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

## **Key Features**

- MPEG-4 and JPEG multi format.
- Up to 32 network cameras can be connected and recorded.
- Various Recording Mode: Manual, Schedule, Event (Pre/Post), Emergency, External Timer.
- Various alarm sources such as 16x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol, and flexible alarm actions such as Alarm recording, E-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer and LED.
- Panasonic Camera control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on Camera model).
- Cameras may be assigned to one of the eight 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 mode: Spot, Quad (8 patterns), Spot Sequence, Quad Sequence.
- Eight 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.
- Two setup modes available, Quick/Advanced at users' preference.
- Two 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.
- $\bullet$  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-AS65 or WV-ASM100 management software.
- Front panel LCD screen for status display.
- HDD capacity is expandable with four HDD bays in the main unit and up to six WJ-HDE300 optional Extension Units each with four bays.
- 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*	Rack Mount Bracket Fixing Screw 4 pcs.     Hard Disk Drive Fixing Screw     (w/sleeve and damper)	
	Power Cord (NTSC model)	<ul> <li>The CD-ROM contains the operating instructions (PDFs) and the setup tools (Panasonic IP setup software, etc.).</li> </ul>	

## **Optional Accessories**

# RAID5 Board WJ-NDB301 Ex (4

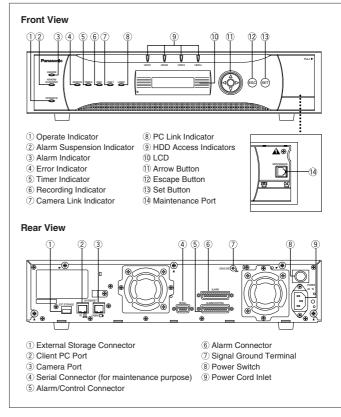
# Extension Unit WJ-HDE300 (4 drive bays for optional HDD units)

## **Specifications**

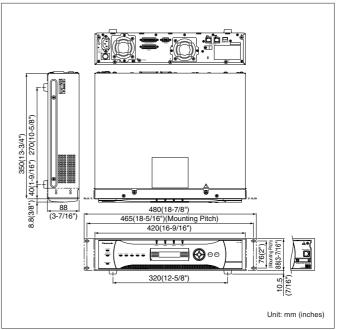
•	fication		NTCC	DAI
TV System		amorao	NTSC	PAL
Cameras	Supported Cameras Supported Image Format Supported Image Resolution		Panasonic i-Pro series Network cameras. (Contact Panasonic for BB series and Axis cameras) MPEG-4 (Specific cameras), JPEG, M-JPEG 1,280 x 960, 960 x 720, 640 x 480, 320 x 240 (Depending on the camera)	
D			Manual managina Cabandulad m	
Recording			Manual recording, Scheduled recording, Emergency recording, External timer recording, Event recording	
	Pre-alarm Re		Up to 60 minutes. Dedicated HDD for Pre-alarm is required 4 programs, 6 time zones/day, Independent setup for each day of the week.	
	Scheduled Recording Mode 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 ty	pe, 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.  Recorded data of selected camera and time range (up to 20 min.) can be	
	Image Download		downloaded to a PC. Viewer software can be downloaded separately.	
	SD Memory		Image data in the SD memory installed in the selected camera can be transferred to the recorder.	
	Data Download Copy		Recorded data of selected cameras and time d	
	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	
	System Log		reviewed at later time. Up to 200 characters  Operator access (100) Network error (1000) From (100) Event (750)	
	System Log Time Synchronization		Operator access (100), Network error (1,000), Error (100), Event (750) Terminal (Master or Slave), NTP (Client)	
	Summer Time		User definable (using menu setup)	
			English, French, Italian, Spanish, German, Russian, Chinese, Japanese	
	Supported OS		Windows®2000 Professional SP4, Windows®XP Home/	
			Professional SP2 English, German, French, Italian, Spanish.	
	Supported Browser		Internet Explorer 6.0 SP1,SP2	
Alarm/	Alarm Source	9	16 x Terminal inputs, 16 x Camera	alarms, Panasonic Alarm Protoco
Event	Event Mode		Alarm/Activity/OFF	
	Alarm Action  Alarm Control  Event Log		Alarm recording, E-mail notification, Alarm	
			FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer, LED Reset, Suspend	
			750	
Network	Network Inter	rface	Camera port: 10Base-T/100Base-TX (RJ-45)	Client port: 10Base-T/100Base-TX (RJ-45)
			Maintenance port: 10Base-T (RJ-45)	
	Maximum Band Width		Total 97 Mbps	
	Bandwidth Control (Client Port)		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	
	No. of Client at a Time		Upon Alarm or Warning 8	
	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)	
External	Alarm Connector	Alarm	Alarm input 1 ~ 16*1, Alarm outp	ut 1 ~ 7" <sup>2</sup>
Interface	(25pin D-sub)	Alorm	Alarm autnut 0 46*2 Alarm augr	nancian input*1. Alarm recet input*
	Alarm/ Control	Alarm	Alarm output 8 ~ 16"2 Alarm suspension input"1, Alarm reset inpu Emergency recording input"1, Power outage detection input"1,	
	Control	COLLEGE		
	(25pin D-sub)  Error/ Warning		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
	EXT Strage		High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Ur	
HDD	RS-232C		For servicing purpose only.  1 x 3.5-type 250 GB HDD (Factory default),	
HDD	Type  Maximum Capacity		1 x 3.5-type 250 GB HDD (Factory default), Up to 4 x 500 GB HDDs can be installed. (Contact Panasonic for detail	
			14 TB (with 6 x WJ-HDE300 Extension Units, 4 x 500 GB HDDs installed in each unit).	
	RAID		RAID5 supported (with WJ-NDB301 RAID5 Board)	
	Partitioning		Normal/Event/Copy	
Viewer	Playback Control		Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image	
Software			Alteration detection, Save as JPEG, Two times zoom, Print	
	Supported OS, Language		Same as browser GUI, Language of the software will be English	
	Supported OS, Language Supported OS, Language		Same as browser GUI, Language of the software will be English Same as browser GUI, Language of the software will be English	
Quick IP Setup Software				
General	Safety/EMC Standard		UL (6500 Edition2), FCC (Part15 ClassA),	CE (EN60065, EN55022, EN55024, ClassB)
Specifications			C-UL (E60065), DOC (ICES003 ClassA)	GOST (R 51558)
			120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz
	Power Consumption		approx. 85 W	
	Ambient Operating Temperature Ambient Operating Humidity Maximum Operating Altitude Dimensions Weight		+5 C ~ +45 C (41 F ~ 113 F)	
			5 % ~ 90 % (no condensation)	
			2,000 m (6,500 feet) above sea level	
			420 mm (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.)	

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

## **Major Operating Controls & Terminals**



## **Appearance**



### Trademarks and registered trademarks

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
- SD logo is a trademark.
- Axis is a registered trademark of Axis Communications AB.

- Important

   Safety Precaution: carefully read the operating instructions and installation manual beforeusing 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.
- These products may be subject to export control regulations.
- Product pictures shown in this catalog are all NTSC models.

