

Network Disk Recorder WJ-ND400

NTSC WJ-ND400K (120 V AC) PAL WJ-ND400K (220 ~ 240 V AC)



High performance Network Disk Recorder for Megapixel i-PRO Network Cameras with 9 Serial ATA HDD slots

Kev Features

- H.264, MPEG-4 and JPEG multi format
- Up to 64 network cameras can be connected without extra license fee and their images can be recorded simultaneously.
- 200 Mbps high throughput: Best match with Megapixel i-PRO Network Cameras
- Various Recording Modes: Manual, Schedule including Event (Pre/Post), Emergency. Schedule mode includes eight recording programs with individual recording mode for each camera, and 6 time schedules per day.
- Panasonic camera control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on camera model).
- Audio from i-PRO network cameras can be recorded and played back, G.726 (ADPCM) 32 kbps.
- Cameras can be assigned to one of the 8 groups for easier browsing.
- Flexible playback controls: Goto Date (Jump to specific time/date), Goto Last (Jump to 5 sec. ~ 5 min. before the record end).
- Various display modes: Spot, Quad (16 patterns), Spot Sequence, Quad Sequence (Live).
- Filtered search: Time & Date, Event Type, Camera number.
- VMD search: Motion in a specified area in the recorded images can quickly be searched (works with supported i-PRO cameras and WJ-NT314).
- 2x, 4x Digital zoom (Live/Playback)
- Recorded images can be downloaded to a PC. Downloadable viewer software allows playback of images downloaded from the recorder.
- Various alarm sources include 32x Terminal inputs, 64x Camera alarms, Panasonic Alarm Protocol. Flexible alarm actions include Event recording, E-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
- 2x built-in network interfaces (10Base-T / 100Base-TX / 1000Base-T) for camera recording and client access
- Up to 16 clients can monitor images and control WJ-ND400 simultaneously.
- FTP client function enables periodic live image transfer or recorded image transfer in response to an alarm.
- Performance measurement function for appropriate recording frame rate setup
- Images recorded in the SD memory card in i-PRO network cameras can be transferred to the recorder automatically even when the recorder is in recording status.

- Setup can be made with the user friendly browser GUI. Multilingual options include English / French / Spanish / Germany / Italian / Russian / Chinese / Japanese / Custom.
- User/Host authentication, 4 programmable user levels, 16 user priorities and User-Camera View/Control partitioning set up for sophisticated user management. Up to 32 user registrations
- Alteration detection and recorded data encryption for data security
- Multi-recorder-Multi-site-system can be made with optional WV-ASM200 i-PRO Management Software.
- Up to 9 Serial ATA HDDs can be installed with the provided canisters. By RAID mode, the HDDs can be removed without interrupting the recording with hot plug support.
- HDD capacity is expandable up to 54 HDD slots (9 HDD slots in the main unit and 5 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots).
- Disk partitioning including Normal, Event, Pre-Event, Copy for flexible record management
- RAID5/6 redundant recording for data security
- Superior reliability with an embedded OS compared to PC-based system
- WJ-ND400 includes RSA BSAFE Cryptographic software from RSA Security Inc.

Standard Accessories

• CD-ROM* 1 pc.	• Label 1 pc.
Installation Guide 1 pc.	 Rack Mounting Bracket 2 pcs.
Quick Reference Guide 1 pc.	 Rack Mounting Bracket fixing screw 6 pcs.
* The CD-ROM contains the operating instructions (PDFs)	 Handle for Rack Mounting Bracket 2 pcs.
	 Handle fixing screw for
The following are for installation:	Rack Mounting Bracket 4 pcs.
Power Cord (NTSC model) 1 pc.	• Washer 4 pcs.
Power Cord (PAL model) 2 pcs.	HDD canister 9 pcs.
• Key 2 pcs.	HDD fixing Screw for HDD canister 54 pcs.

Optional Accessory

Hard Disk Extension Unit Power Source WJ-HDE400 Power Consumption: approx. 130 W Dimensions : 430 mm (W) x 132 mm (H) x 400 mm (D) Weight

: 120 V AC, 60 Hz (NTSC) 220 ~ 240 V AC, 50 Hz (PAL)

(16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections): 13.5 kg (29.8 lbs.) (When no HDD exist) 20 kg (44.15 lbs.) (When 9 HDDs are installed)

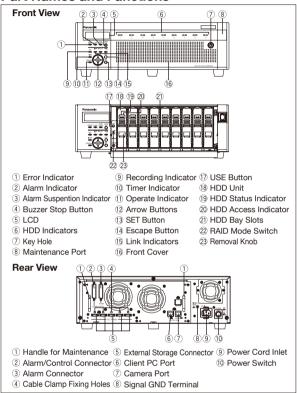
Specifications

TV System			NTSC	PAL	
	Supported Car		Panasonic i-PRO series Network cameras (Contact Panasonic for BB series and Axis® cameras		
Cameras	Supported Imag		H.264, MPEG-4, JPEG, M-JPEG		
	Supported Image	Resolution	Aspect ratio [4:3]: 2,048 x 1,536, 1,280 x 960		
			Aspect ratio [16:9]:1,920 x 1,080, 1,280 x 720, 6	40 x 360, 320 x 180) * Depending on the camera	
	Supported Audio Format				
	Maximum Number of Cameras				
Recording	Recording Mode		Manual, Schedule including Event (Pr		
	Pre-Event Recording		Up to 15 minutes with dedicated HDE		
			Shorter Pre-Event recording is possible without dedicated HDD.		
	Scheduled Recording Mode				
	Frame Rate/Camera		Up to 30 ips (Depending on the Came	era)	
Browser	Camera Contro	ol	Pan/Tilt, Zoom, Focus, Brightness, Preset pos	sition call and program (up to 256), Auto mod	
GUI	REC/Playback Control		REC, PLAY, Rev PLAY, Pause, Stop,	FF, REW, Prev Record, Next Record,	
	Search Mode		Prev Image, Next image, Goto Date, Goto Last (5 sec. ~ 5 min.)		
			Filtered search: Time date, Event type, Camera number		
			VMD search: one detection areas per search (works with supported i-PRO cameras and WJ-NT314)		
	Display Mode		Spot/Quad (16 patterns) / Spot Sequence / Quad Sequence (Sequence: Live only)		
	Camera Grouping		8 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 down	nloaded separately.	
	SD Memory Data		Images recorded in the SD card in the	e i-PRO series cameras can be	
	Download		transferred to the recorder automatical		
	Copy		Recorded data of selected cameras and time of		
	Camera Title		On the browser, Up to 16 Characters	g partie	
	Clock Display		On the browser. Time: 12 H/24 H, Date: 3 forma	ts (YY,MM,DD, MMM.DD.YY, DD MMM YY)	
	Alarm Control		Reset, Suspend		
			2x, 4x		
	Digital Zoom System Log		Operator access (100), Network error	(1 000) Error (100) Event (750)	
	System Setup		Setup page in English, French, Italian, Spar		
	GUI Language		English, French, Italian, Spanish, Germa		
	Supported OS	'	Microsoft® Windows® 7,Microsoft® Windo		
	Supported Browser		The language of OS must be the same as		
			Windows® Internet Explorer® 9.0 (32 bit), Windows® Internet Explorer® 8.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bi		
	Required PC	JPEG/	CPU: Intel® Pentium® 4 3.0 GHz or fa		
		MPEG-4	VRAM: 128 MB or more (Min. 64 MB)		
		H.264	CPU: Intel® Core™ i7-920 or faster, R		
			VRAM: 128 MB or more (Min. 64 MB)	Microsoft® DirectX® 9.0c or later	
Alarm/	Alarm Source		32x Terminal inputs, 64x Camera alar	ms, Panasonic Alarm Protocol	
Event	Event Mode		Off / On		
	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		
Network	Network Interface		Camera port: 10Base-T / 100Base-TX / 10	00Base-T (RJ-45) Client port: 10Base-T	
			100Base-TX / 1000Base-T (RJ-45) Maintenance port: 10Base-T (RJ-45)		
	Maximum Band Width		Total 200 Mbps		
	Bandwidth Control (Client Port)				
	Supported Pro		TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP		
	E-mail		Upon Alarm or Warning		
	FTP Client		Upon alarm or Periodic transfer		
	No. of Simultane	eous Users			
	User Registrat		Up to 32 users		
	User Registrat	iOI I	4 Levels (Programmable)		
				atrol No Access)	
	Partitioning	24	User - Camera (View only, View & Control, No Access)		
	Security Metho	Ju	User authentication (ID and password), Host authentication (IP address), Alteration detection, HTTP Port No. (1 ~ 65,535 except for reserved numbers)		
				· · · · · · · · · · · · · · · · · · ·	
Forting 1	Al 0	A1	FTP Port No. (1 ~ 65,535 except for res	erveu numbers)	
External	Alarm Connector	Alarm	Alarm input 1 ~ 7, 17 ~ 32*2		
Interface	(D-sub25pin)		11 1 10 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Alarm/Control	Alarm	Alarm input 8 ~ 16°2, 1x Alarm output'3, 1x A		
	Connector	Control	Emergency recording input*2, Power of	= -	
	(D-sub25pin)		recording mode switching*2, Power or		
			Time adjustment input/output*5, +5 V		
		Error/	Network error output*3, Available disk		
		Warning	HDD error output*3, Camera error out		
	External Storag	ge	High-speed serial interface 1.5 Gbps (theoretic	cal value) Only for WJ-HDE400 Extension Uni	
Other	Time Synchror	nization	Terminal (Master or Slave), NTP (Server/Client)		
Functions	Summer Time		User definable (using menu setup)		
HDD	Туре		3.5 inch Serial ATA HDD, Up to 9x HDDs can be installed.		
	Maximum Capacity		54 HDD slots (with 5x WJ-HDE400 Extension Units, 9x HDDs installed in each unit)		
	RAID		RAID 5/6 supported		
	Partitioning		Normal / Event / Pre-Event / Copy		
Viewer	Playback Cont	rol	Play, Rev Play, Pause, FF, REW, Prev Reco	ord Next Record Prey Image Next image	
Software	Additional Functions		Alteration detection, Save as JPEG, Two times zoom, Print		
	Supported OS, Language Same as browser GUI, Language of the software will be English				
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General	Safety/EMC St	andard	UL (UL60065), FCC (Part15 ClassA),	CE (EN60065, EN55022 ClassB,	
General Specifications	Safety/EMC St	andard	UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065), DOC (ICES003 ClassA)	EN55024), GOST (GOST R 51558)	

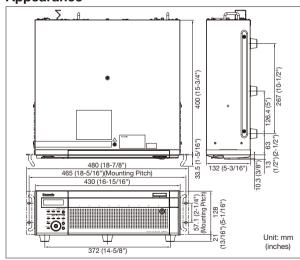
TV System		NTSC	PAL	
General	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
Specifications	Power Consumption	approx. 170 W e +5 C ~ +45 C (41 F ~ 113 F)		
	Ambient Operating Temperature			
	Ambient Operating Humidity	5 % ~ 90 % (no condensation)		
	Maximum Operating Altitude	2,000 m (6,500 feet) above sea level 430 mm (W) x 132 mm (H) x 400 mm (D)		
	Dimensions			
		(16-15/16" (W) x 5-3/16" (H)	x 15-3/4" (D))	
		(excluding rubber feet and projections) 13 kg (28.6 lbs.) without Canister and HDD		
	Weight			
		20 kg (44.15 lbs.) with 9 HE	DDs	

^{*1:} Microsoft® Windows® 7 Starter and Microsoft® Windows Vista® Starter are not supported. For information on the operation verification of the supported operating systems and web browsers,

Part Names and Functions



Appearance



- Trademarks and registered trademarks

 RSA and BSAFE are either registered trademarks or trademarks of RSA Security Inc. in the U.S.

 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.

 "Super Dynamic", "SDII", "SDIII" and "i-PRO" 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.
- All TV pictures are simulated.
 - Weights and dimensions are approximate.Specifications are subject to change without notice.
- All product pictures are NTSC models.

DISTRIBUTED BY:



refer to our website at http://panasonic.net/pss/security/support/index.html.

*2: Non-voltage make contact, +5 V pull-up 150 *3: Open collector output, 24 V max., -100 mA

*4: High (+5 V - +12 V, 6.3 mA maximum) *5: 52 k, 5 V pull-up, -100 mA / make contact *6: 200 mA at maximum