

Network Disk Recorder

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



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

Key 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 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).
- 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

Specifications

Supported Cameras	Supported Ca	neras	Panasonic i-PRO series Network cameras (Contact Panasonic for BB series and Axis [®] cameras)		
Cameras	Supported Image Format		(Contact Panasonic for BB series and Axis® cameras) H.264, MPEG-4, JPEG, M-JPEG		
	Supported Image	, ,	Aspect ratio [4 : 3]		
	(Depending on the camera)				
			Aspect ratio [16 : 9] 3,840 x 2,160, 2,560 x 1,440, 1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180		
			Aspect ratio [1 : 1] 2,992 x 2,992, 2,816 x 2,816, 2,048 x 2,048, 1,280 x 1,280, 640 x 640, 320 x 320		
	Supported Audio Format Maximum Number of Cameras		G.726 (ADPCM) 32 kbps		
Recording			Manual, Schedule including Event (Pre/Post), Emergency		
	Pre-Event Recording		Up to 15 minutes with dedicated HDD for Pre-Event. Shorter Pre-Event recording is possible without dedicated HDD.		
	Scheduled Recording Mode Frame Rate/Camera		8 programs, 6 time zones/day, Independent setup for each day of the wee Up to 60 ips (Depending on the camera)		
Browser			Pan/Tilt, Zoom, Focus, Brightness,		
GUI	REC/Playback Control		Preset position call and program (up to 256), Auto mode 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		
	Display Mode		VMD search : one detection areas per search (works with supported i-PRO camera 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 Pl		
	SD Memory Data		Viewer software can be downloaded separately. Images recorded in the SD card in the i-PRO series cameras can be		
	SD Memory Data Download		transferred to the recorder automatically.		
	Сору		Recorded data of selected cameras and time date range can be copied t the COPY partition.		
	Camera Title		On the browser, Up to 16 Characters		
	Clock Display		On the browser.		
			Time : 12 H/24 H Date : 3 formats (YY.MM.DD, MMM.DD.YY, DD.MMM.YY)		
	Alarm Control		Reset, Suspend		
	Digital Zoom		2x, 4x		
	System Log		Operator access (100), Network error (1,000), Error (100), Event (750)		
	System Setup		Setup page in English, French, Italian, Spanish, German, Russian, Chinese, Japanese		
	GUI Language		English, French, Italian, Spanish, German, Russian, Chinese, Japanese, Custom		
	Supported OS ^{*1}		Microsoft® Windows® 10 Microsoft® Windows® 8.1		
			Microsoft® Windows® 7		
			Microsoft [®] Windows Vista [®]		
			Microsoft [®] Windows [®] XP SP3 The language of OS must be the same as selected GUI language.		
	Supported Browser		Windows® Internet Explorer® 11 (32 bit)		
			Windows® Internet Explorer® 10 (32 bit)		
			Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit)		
			Windows [®] Internet Explorer [®] 7 (32 bit)		
			Windows® Internet Explorer® 6 SP3		
	Required PC	JPEG/	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		
		H.264	CPU : Intel [®] Core [™] i7-920 or faster*2 RAM : 4 GB or more.		
			VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later		
Alarm/ Event	Alarm Source Event Mode		32x Terminal inputs, 64x Camera alarms, Panasonic Alarm Protocol Off / On		
Event	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		
Network	Event log Network Interface		750 Camera port : 10Base-T / 100Base-TX / 1000Base-T (RJ45)		
			Client port : 10Base-T / 100Base-TX / 1000Base-T (RJ45) Maintenance port : 10Base-T (RJ45)		
	Maximum Band Width		Total 200 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, RTF		
	E-mail		Upon Alarm or Warning		
	FTP Client		Upon alarm or Periodic transfer		
	No. of Simultaneous Users User Registration		16 Up to 32 users		
	User Registration 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, HTTP Port No. (1 - 65,535 except for reserved numbers)		

TV System	1		NTSC	PAL
External Interface	Alarm Connector Alarm (D-sub25pin)		Alarm input 1 - 7, 17 - 32 ⁻³	
	Alarm/Control Alarm		Alarm input 8 - 16"3, 1x Alarm output"4,	
	Connector		1x Alarm reset input ^{*3} , 1x Alarm suspend input ^{*3}	
			Emergency recording input*3,	
			Power outage detection input*3,	
			External recording mode switching ^{*3} ,	
			Power outage recovery c	ompletion output*5,
			Time adjustment input/ou	itput*6, +5 V output*7
		Error/	Network error output*4,	
		Warning	Available disk space warr	ning output*4,
			HDD error output*4,	
			Camera error output*4, Error output*4	
	External Storage	e	High-speed serial interface 1.5 Gbps (theoretical value)	
			Only for WJ-HDE400 Extension Unit	
Other	Time Synchronization		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 Capa	city	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 Contro	ol	Play, Rev Play, Pause, FF, REW, Prev Record,	
Software			Next Record, Prev Image, Next image	
	Additional Func	tions	Alteration detection, Save as JPEG,	
			Two times zoom, Print	
	Supported OS,		Same as browser GUI,	
	Language		Language of the software	3
General	Safety/EMC Standard		UL (UL60065),	CE (EN60065,
Specifications			FCC (Part15 ClassA),	EN55022 ClassB,
			C-UL (CAN/CSA C22.2	EN55024),
			No.60065),	EAC
			DOC (ICES003 ClassA)	
	Power Source		120 V AC, 60 Hz	220 to 240 V AC, 50 Hz
	Power Consum		approx. 170 W	
			+5 °C to +45 °C (41 °F to 113 °F)	
	Ambient Operating		· · · · · · · · · · · · · · · · · · ·	
	Maximum Operatin	g Altitude		
	Dimensions		430 mm (W) x 132 mm (H) x 400 mm (D)	
			(16-15/16" (W) x 5-3/16" (H) x 15-3/4" (D))	
			(excluding rubber feet and projections)	
	Weight		13 kg (28.6 lbs.) without Canister and HDD	
			20 kg (44.15 lbs.) with 9 H	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, refer to our website at http://security.panasonic.com/support/
 *2 Recommend CPU : Intel® Core™ i7 4770 or faster when 2,560 x 1,920 or more resolution is selected.
 *2 Non violang match contact u 5 V and up 150

*3 Non-voltage make contact, +5 V pull-up 150

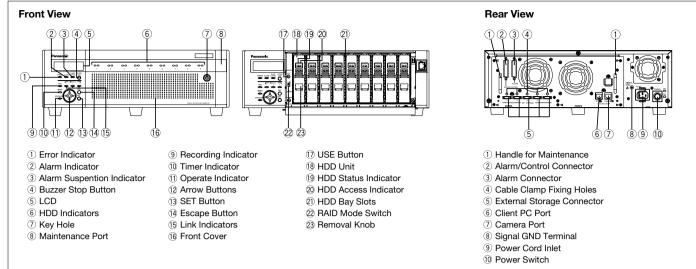
*4 Open collector output, 24 V max., -100 mA

*5 High (+5 V to +12 V, 6.3 mA maximum)

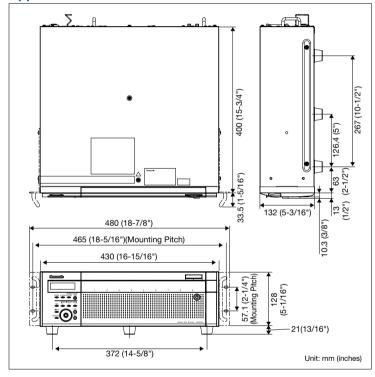
*6 52 k, 5 V pull-up, -100 mA / make contact

*7 200 mA at maximum

Part Names and Functions



Appearance



Standard Accessories

CD-ROM* 1 pc. Installation Guide 1 pc. Quick Reference Guide 1 pc. The CD-ROM contains the operating instructions (PDFs)
The following are for installation 1 pc. • Power Cord (NTSC model) 2 pcs. • Rey 2 pcs. • Label 1 pc. • Rack Mounting Bracket 2 pcs.
 Rack Mounting Bracket fixing screw

Optional Accessory

Hard Disk Extensi WJ-HDE400	on Unit			
Power Source	: 120 V AC, 60 Hz (NTSC)			
	220 - 240 V AC, 50 Hz (PAL)			
Power Consumption : approx. 130 W				
Dimensions	: 430 mm (W) x 132 mm (H) x 400 mm (D)			
	(16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D))			
	(excluding rubber feet and projections)			
Weight	: 13.5 kg (29.8 lbs.) (When no HDD exist)			
	20 kg (44.15 lbs.) (When 9 HDDs are installed)			

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- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
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Important

Safety Precaution: Carefully read the Important Information, Installation Guide and operating instructions before using this product. - Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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All TV pictures are simulated

· Weights and dimensions are approximate.

Specifications are subject to change without notice.
All product pictures are NTSC models.



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