Panasonic

Network Disk Recorder WJ-NV200 Network Disk Recorder with DVD drive WJ-NV200V



Video Decoder built-in 16ch Network Disk Recorder

Key Features

- H.264, MPEG-4 and JPEG multi format
- Up to 16 network cameras can be connected and recorded.
 Quick setup by automatic camera detection and simple setup
- wizard without the use of PC

 "Referenced recording days" is automatically calculated by frame
- "Referenced recording days" is automatically calculated by frame rate, image quality and HDD capacity.
- Simple mouse operation by new GUI without the use of PC
- Quick intuitive search with calendar and timeline
- Live images from up to 16 cameras can be displayed simultaneously.
- Supports the Full HD output (HDMI) that can display recorded images and live images in high definition
- Various alarm sources include 9x Terminal inputs, 16x Camera alarm, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
- 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.
- Flexible Playback Controls: Goto Date (Jump to specific time/date),
 Goto Last (Jump to 30 s before the record end)
- Various Display Modes: Spot, Multiscreen (4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen)
- Various Recording Modes: Schedule, Event (Pre/Post)
- Filtered Search: Time & Date, Event Type, Camera number, Timeline
- 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 / 1000Base-T) for recording and client access
- Up to 4 clients can monitor image and control WJ-NV200 simultaneously.
- Up to 2 HDDs (3.5 inch Serial ATA) can be installed. (WJ-NV200 only)
- User authentication, 3 user levels and User level Camera partitioning setup for user management of up to 16 user registrations

- Multi-recorder, Multi-site system can be made with optional WV-ASM200 i-PRO Management Software.
- Onvif NVC (Network Video Client), core spec Ver.1.02 conformant
- DVD drive built-in (WJ-NV200V)

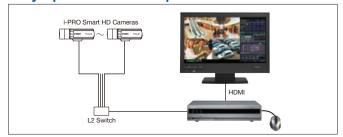
Standard Accessories

CD-ROM*	The following are for installation: • Power Cord
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Additional Kit



Easy Operation and Setup without PC



Specifications

TV System			NTSC		
	Supported Cameras		Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera		
Cameras	Supported Image Format Supported Image Resolution		H.264, MPEG-4, MJPEG Aspect ratio [4:3]: SXVGA (1,280 x 960), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 240)		
	Supported image nesolution		Aspect ratio [16:9]: 5XVGA (1,260 x 960), 5VGA (600 x 600), VGA (640 x 460), QVGA (520 x 240) Aspect ratio [16:9]:1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180)* Depending on the camera		
	Supported Audio Format		G.726 (ADPCM) 32 kbps		
	Maximum Number of Cameras		16		
Recording	Recording Mo	ode	Event, Schedule		
,	Pre-alarm Recording		Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution)		
	Scheduled Recording Mode		2 programs, 3 time zones/day, Independent setup for each day of the week		
			Up to 30 ips (Depending on the Camera)		
Main Unit	Camera Conti	rol	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)		
Functions			Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus		
ļ	Multiscreen M		4 / 16 split screen display, 3 / 4 / 6 / 9 / 12 / 16 split screen display on a full screen		
	Playback Con	itroi	PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record, Prev Image, Next Image, Goto Date, Goto Last (30 s)		
	Search Mode		Search criteria: Time date, Playback by designating a timeline, VMD		
	Сору		Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card.		
	Camera Title		Up to 14 characters		
	Clock Display		Time: 12H/24H, Date: 5 formats		
	Digital Zoom		Live: 2x, 4x, 8x (only for 1-screen or 4-screen) Play: 2x, 4x, 8x		
	System Log		Operator access (100), Network error (100), Error (1,000), Event (750)		
	System Setup)	Setup page in English, French, Italian, Spanish, German, Russian, Japanese		
Browser	Camera Conti	rol	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256),		
GUI			Auto mode, Click centering, Wheel zoom, Zoom reset		
	Playback Con	itrol	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record,		
			Prev Image, Next Image, Goto Date, Goto Last (30 s)		
	Search Mode		Search criteria: Time date, Event type, VMD, Camera number		
	Display Mode		1 / 4 screen		
	Image Downlo	Dad	Recorded data of selected camera and time range can be		
	Conv		downloaded to a PC. Viewer software can be downloaded separately.		
	Copy Camera Title		Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card Up to 14 characters		
	Clock Display		On the browser. Time: 12H/24H, Date: 5 formats		
	Digital Zoom		Live/Play: 2x. 4x (only for 1-screen)		
	System Log		Operator access (100), Network error (100), Error (1,000), Event (750)		
	GUI Language	9	English, French, Italian, Spanish, German, Russian, Japanese		
	Supported OS		Microsoft® Windows® 8, Microsoft® Windows® 7,		
			Microsoft® Windows Vista®, Microsoft® Windows® XP SP3		
	Supported Browser		Windows® Internet Explorer® 10.0 (32 bit),		
			Windows® Internet Explorer® 9.0 (32 bit),		
			Windows® Internet Explorer® 8.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bit)		
	Required PC	MJPEG/	CPU: Intel [®] Core™ 2 Duo 2.66 GHz or faster, RAM: 1 GB or more,		
		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		9x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol		
Event	Event Mode		Off / On		
	Alarm Action		Alarm recording, e-mail notification, Alarm message, Camera positioning,		
	Alarm Control		Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset		
	Event Log		750		
Input /	Spot Output (Connector	1x 1 V [p-p] / 75 Ω (BNC)		
Output	Monitor (HDMI		1x HDMI 1920x1080i / 60Hz, 720x480p / 60Hz		
	Audio Output		1x –10 dBv, 600 Ω, Unbalanced (RCA)		
	Alarm/Control		Alarm input 1 ~ 9*1, Alarm output*2, Alarm reset input*1		
	Connector	Control	Time adjustment input*1, +5 V output*3		
	(25pin D-sub)	Error/	Network error output'2, HDD error output'2, Camera error output'2,		
		Warning	Recorder error output" ² , Recording error output" ²		
	Mouse Conne	ection Port	1x		
	Network Port		1x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)		
	SDHC/SD Mem		SDHC/SD memory cards applicable (miniSD cards and microSD cards not applicable		
Network	Maximum Bar		Total 80 Mbps or less		
	Supported Pr	otocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, RTP		
	E-mail	nous Herm	Upon Alarm or Warning		
	No. of Simultar User Registra		4 or less Up to 16 users		
	User Level	LIOI I	3 Levels (Programmable)		
	Partitioning		User level - Camera (View & Control, No Access)		
	Security Meth	od	User authentication (ID and Password), Alteration detection		
Other	Time Synchro		Terminal (Slave), NTP (Server/Client)		
Functions	Summer Time		User definable (using menu setup)		
HDD	Туре		WJ-NV200: 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.		
			WJ-NV200V: 8.89 cm (3.5 inch) Serial ATA HDD Up to 1x HDD can be installed.		
DVD	Supported DV	D disk type	DVD-R, +R (Not supported : DVD-R DL, +R DL, DVD-R for authoring. 8 cm disks		
WJ-NV200V only			•		
Viewer	Playback Cor	itrol	Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image		
Software	Additional Fur	nctions	Alteration detection, Save as JPEG, Two times zoom, Print, Copy		
	Supported OS	, Language	Same as browser GUI, Language of the software will be English		
General	Safety/EMC S		UL (UL60065), FCC (Part15 ClassA), C-UL (CAN/CSA C22.2 No.60065),		
Specifications			DOC (ICES003 ClassA)		
,	Power Source				
,	Power Source		120 V AC, 60 Hz		

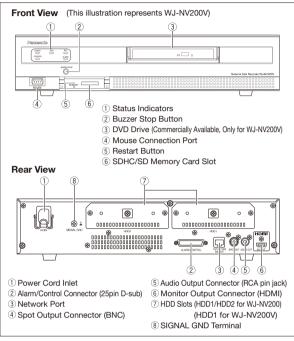
٠	All TV	pictures	are	simulated.

- 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.

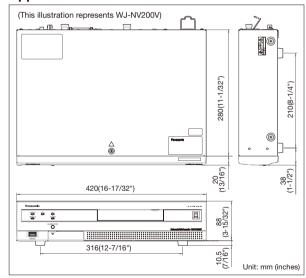
TV System		NTSC
General	Ambient Operating	Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F)
Specifications Temperature		Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F)
Ambient Operating Humidity		WJ-NV200 : 5 % ~ 90 % (without condensation)
		WJ-NV200V: 10 % ~ 80 % (without condensation)
Maximum Operating Altitude		2,000 m (6,562 feet) above sea level
Dimensions		420 mm (W) x 88 mm (H) x 300 mm (D)
		(16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D))
		(excluding rubber feet and projections)
Mass (approx.)		4.8 kg (10.6 lbs.) without HDD
		5.6 kg (12.36 lbs.) with 1 HDD
		6.4 kg (14.13 lbs.) with 2 HDDs (WJ-NV200 only)

- *1: Non-voltage make contact input, 50 k Ω +5 V DC pull-up *2: Open collector output, 24 V DC, 100 mA max. *3: 200 mA max.

Part Names and Functions



Appearance



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.

 UniPhier is a registered trademark of Panasonic Corporation.
- "i-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.
 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- Important

 Safety Precaution: Carefully read the operating instructions and installation manual 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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Network Disk Recorder WJ-NV300



Video Decoder built-in 32ch*1 Network Disk Recorder

Key Features

- H.264 and JPEG multi format
- 16 network cameras can be connected and recorded as default. Up to 32*1 network cameras can be connected and recorded.
- · Quick setup by automatic camera detection and simple setup wizard without the use of PC
- "Referenced recording days" is automatically calculated by frame rate, image quality and HDD capacity.
- Simple mouse operation by new GUI without the use of PC
- · Quick intuitive search with calendar and timeline
- Live images from up to 32^{*1} cameras can be displayed simultaneously.
- Supports the Full HD output (HDMI) that can display recorded images and live images in high definition
- Various alarm sources include 9x Terminal inputs, 32x Camera alarm, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification. Alarm message. Camera positioning. Terminal output. Panasonic alarm protocol output. Buzzer and Indicator.
- 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.
- Flexible Playback Controls: Go to Date (Jump to specific time/date), Go to Last (Jump to 30 s before the record end)
- Various Display Modes: Spot, Multiscreen (4 / 16 split screen display, 4 / 6 / 9 / 12 / 16 / 24 / 32 *1 split screen display on a full screen)
- · Various Recording Modes: Schedule, Event (Pre/Post)
- Filtered Search: Time & Date, Event Type, Camera number, Timeline
- Recorded images can be downloaded to a PC.
- Downloadable viewer software allows playback of images downloaded from the Recorder.
- Equipped with a SD memory card slot and USB memory I / F. It realizes a simple local copy.
- Built-in network interface (10Base-T / 100Base-TX / 1000Base-T) for recording and client access
- Up to 8 clients can monitor image and control WJ-NV300 simultaneously.
- Up to 2 HDDs can be installed. (8.89 cm (3.5 inch) Serial ATA HDD)
- HDD capacity is expandable up to 20 HDD slots (2 HDD slots in the main unit and 2 optional WJ-HDE400 Hard Disk Extension Units each with 9 HDD slots).
- RAID5/6 redundant recording for data security (with WJ-HDE400)

- User authentication, 3 user levels and User level Camera partitioning setup for user management of up to 16 user registrations
- Multi-recorder, Multi-site system can be made with optional WV-ASM200 i-PRO Management Software.
- ONVIF client, conformance to ONVIF Profile S.

Weight

*1 Two Additional Camera Kits WJ-NVE30 are necessary.

Optional Accessory Hard Disk Extension Unit

WJ-HDE400

Power Source : 120 V AC, 60 Hz (NTSC) Power Consumption: approx. 130 W

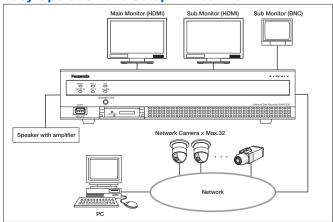
Dimensions 430 mm (W) x 132 mm (H) x 400 mm (D) (16-15/16" (W) x 5-3/16" (H) x 15-12/16" (D)) (excluding rubber feet and projections)

: 13.5 kg (29.8 lbs.) (When no HDD exist) 20 kg (44.15 lbs.) (When 9 HDDs are installed)

Additional Kit



Easy Operation and Setup without PC



Specifications

TV System Supported		endor	NTSC Panasonic i-PRO series Network cameras Onvif NVT conformant camera and encoder camera
Supported Compatible vendor Cameras Supported Image Format			H.264, MJPEG
		ge Resolution	Aspect ratio [4:3] : QXGA (2048x1536), SXVGA (1,280 x 960), SVGA (800 x 600), VGA (640 x 480), QVGA (320 x 24
			Aspect ratio [16:9]:1,920 x 1,080, 1,280 x 720, 640 x 360, 320 x 180)* Depending on the camera
	Supported Audio Format		G.726 (ADPCM) 32 kbps
	Maximum Numb	er of Cameras	MAX. 32*1 (Default Number of Cameras : 16)
Recording Recording Mode			Event, Schedule
	Pre-alarm Re	cording	Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution and up to 5 seconds at QXG/
	Scheduled Recording Mode		4 programs, 3 time zones/day, Independent setup for each day of the week
	Frame Rate/0	Camera	Up to 60ips (Depending on the Camera)
Main Unit	Camera Conf	trol	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)
Functions			Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus
	Multiscreen N	∕lode	MainMonitor
			4/16 split screen display, 4/6/9/12/16/24/32* split screen display on a full scree
			(*24-/32-multiscreen is available when sub monitor isn't on.)
			SubMonitor
	Dlavbaak Ca	atual	1 screen sequence / 4 split screen sequence / 9(16) split screen display
	Playback Co	ILITOI	PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record,
	Search Mode		Prev Image, Next Image, Go to Date, Go to Last (30 s) Search criteria: Time date, Playback by designating a timeline, VMD
	Copy	;	Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card and USB media
	Camera Title		Up to 14 characters
	Clock Display	/	Time: 12H/24H, Date: 5 formats
	Digital Zoom		Live: 2x, 4x, 8x (only for 1-screen or 4-screen) Play: 2x, 4x, 8x
	System Log		Operator access (100), Network error (100), Error (1,000), Event (750)
	System Setu	p	Setup page in English, French, Italian, Spanish, German, Russian, Portuguese, Japanese
	360 Camera		Only 1ch display mode.
	re-encoding	p	1Client
	Real Time Fac	ce Matchina	Camera 1Ch, 100 registered face images
Browser	Camera Cont		Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256
GUI			Auto mode, Click centering, Wheel zoom, Zoom reset
	Playback Cor	ntrol	REC, PLAY, Rev PLAY, Pause, Stop, FF, FR, Prev Record, Next Record,
	,		Prev Image, Next Image, Go to Date, Go to Last (30 s)
	Search Mode		Search criteria: Time date, Event type, VMD, Camera number
	Display Mode)	1/4 screen
	Image Downle	oad	Recorded data of selected camera and time range can be downloaded to a PC
			Viewer software can be downloaded separately.
	SD Memory Da	ta Download	N/A
	Сору		Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card
	Camera Title		Up to 14 characters
	Clock Display		On the browser. Time: 12H/24H, Date: 5 formats
	Alarm Contro	l	Reset
	Digital Zoom		Live/Play: 2x, 4x (only for 1-screen)
	System Log		Operator access (100), Network error (100), Error (1,000), Event (750)
	GUI Language		English, French, Italian, Spanish, German, Russian, Portuguese, Japanese
	Supported OS	3	Microsoft® Windows® 8.1, Microsoft® Windows® 7,
			Microsoft® Windows Vista®,
	Supported Br	owser	Windows® Internet Explorer® 11 (32 bit),
			Windows® Internet Explorer® 10 (32 bit),
			Windows® Internet Explorer® 9 (32 bit),
			Windows® Internet Explorer® 8 (32 bit),
	Dogwing d DC		Windows® Internet Explorer® 7 (32 bit)
	Required PC		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		9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarm
Event	Event Mode		9x Terminai inputs, 32x Camera alarms (Panasonic Alarm Protocol), 126x Command alarm Off/On
Lvent	Alarm Action		Alarm recording, e-mail notification, Alarm message, Camera positioning,
	Alaim Action		
	Alarm Contro	1	Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset
	Alarm Control Event log		750
Input /	Spot Output 0	Connector	1x 1 V [p-p] / 75 Ω (BNC)
Output	Monitor (HDM		2x HDMI 1920x1080p /60Hz, 1920x1080p /50Hz, 1920x1080i /60Hz,
	, ,	,	1920x1080i /50Hz, 720x576p /50Hz, 720x480p /60Hz
	Audio Output	Connector	1x –10 dBy, 600 Ω, Unbalanced (RCA)
	Alarm /	Alarm	Alarm input 1 ~ 9*2, Alarm output*3, Alarm reset input*2
	Control Connector /	Control	Time adjustment input*2, +5 V output*4
	D-sub 25pin	Error/	Network error output*3, HDD error output*3, Camera error output*3,
		Warning	Recorder error output*3, Recording error output*3
	Mouse Conne	ection Port	1x
	Network Port		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)
	USB Memory		Only USB2.0 Memory
	SDHC/SD Mem	nory Card Slot	SDHC/SD memory cards applicable (miniSD cards and microSD cards not applicable
	External Stora		2x HDE400
Network	Network Inter		2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ-45)
	Maximum Red	,	128 Mbps or less
	Maximum Bar		Total 160 Mbps or less
	Supported Pr	otocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP, SNMP, RTP
	E-mail		Upon Alarm or Warning
	FTP Client		1
	No. of Simulta		8 or less
	User Registration		Up to 16 users
	User Level		3 Levels (Programmable)
	Partitioning		User level - Camera (View & Control, No Access)
	Partitioning		Oser level - Carriera (view & Control, No Access)

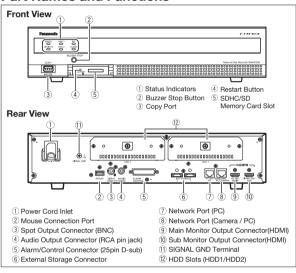
•	All TV pictures	are simulated	d.
_	A 4	!	

- All product pictures are NTSC models. Masses and dimensions are approximate

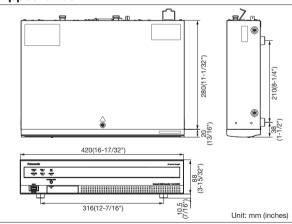
TV System		NTSC	
Other	Time Synchronization	Terminal (Slave), NTP (Server/Client)	
Functions Summer Time		User definable (using menu setup)	
Remote Monitoring on		1Client	
Smartphone/Tablet		*Panasonic Security Viewer v.2.1 or later is required on smartphone/tablet PC.	
HDD	Туре	WJ-NV300: 8.89 cm (3.5 inch) Serial ATA HDD, Up to 2x HDDs can be installed.	
	Maximum Capacity	4TB*5	
	RAID	Single, RAID1, 5*6, 6*6	
Viewer	Playback Control	Play, Rev Play, Pause, FF, FR, Prev Record, Next Record, Prev Image, Next Image	
Software	Additional Functions	Alteration detection, Save as JPEG, Two times zoom, Print, Copy	
Supported OS, Language Language		Language of the software will be English	
General	Safety / EMC Standard	UL (UL60065), FCC (Part15 ClassA),	
Specifications C-UL (CAN/CSA C		C-UL (CAN/CSA C22.2 No.60065),DOC (ICES003 ClassA)	
Power Source 1		120 V AC, 60 Hz	
Power Consumption		approx. 55 W (with 4TBHDDx2)	
	Ambient Operating Temperature	Main body: +5 °C ~ +45 °C (41 °F ~ 113 °F)	
		Mouse (provided): +5 °C ~ +40 °C (41 °F ~ 104 °F)	
	Ambient Operating Humidity	5 % ~ 90 % (without condensation)	
	Maximum Operating Altitude	2,000 m (6,562 feet) above sea level	
Dimensions 420		420 mm (W) x 88 mm (H) x 300 mm (D)	
		(16-17/32" (W) x 3-15/32" (H) x 11-13/16" (D))	
		(excluding rubber feet and projections)	
	Mass (approx.)	5.3 kg (11.70 lbs.) without HDD	
		6.0 kg (13.25 lbs.) with 1 HDD, 6.7 kg (14.79 lbs.) with 2 HDDs	

*1: Two Additional Camera Kits WJ-NVE30 are necessary. *2: Non-voltage make contact input, 50 kΩ +5 V DC pull-up *3: Open collector output, 24 V DC, 100 mA max. *4: 200 mA max. *5: Please check the following URL for the latest information. <a href="http://security.panasonic.com/pss/security/library/li

Part Names and Functions



Appearance



- Trademarks and registered trademarks

 Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and

- Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U other countries.
 UniPhier is a registered trademark of Panasonic Corporation.
 "I-PRO SmartHD" logo is trademarks or registered trademarks of Panasonic Corporation.
 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.
 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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Additional Business Intelligence Kit

WJ-NVF30 WJ-NVF20



Additional Business Intelligence Kit NVF20 is a license kit intended to improve the usefulness of Network Disk Recorder WJ-NV300 / WJ-NV200.

* To use this product, it is necessary to register the license (Registration Key) for Additional Business Intelligence Kit into the WJ-NV300 / WJ-NV200 in us

Key Features

- . New statistical processing functions such as
- "People counting" and "Face matching / Age & Gender judgment"
- •The number of detected human faces can be displayed on a statistical chart separated by age & gender for a single day or a specified time period.
- · Age distribution groups are displayed by separate colors
- •The statistical data can be saved as a CSV file on a SDHC/SD memory card or on a PC connected over a network
- * CSV file: A file that can be edited using a spreadsheet software such as Microsoft® Office Excel®.





Face matching function

	WJ-NV300 with WJ-NVF30	WJ-NV200 with WJ-NVF20
The maximum number of persons to be registered	100	64
The maximum number of face images that can be used for face matching	100	32
Speed of face matching	4 fac	es / s*
The number of people counting / hour	500/h	4,000/h

^{*} In case of face matching and statistical processing work simultaneously: "2 faces / s"

System Benefits

- Business intelligence added to the current (WJ-NV300 / WJ-NV200) system with a small additional investment only
- Improved identification and video analysis thanks to the high picture quality of the Panasonic products

All TV pictures are simulated.

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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

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)

Power Source

(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)

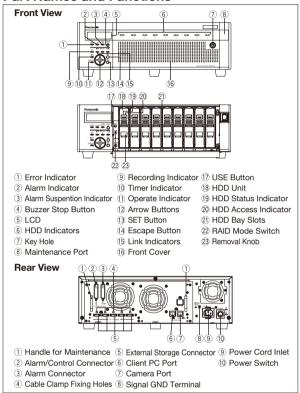
Specifications

			NTSC	PAL	
		pported Cameras Panasonic i-PRO series Network cameras (Contact Panasonic for BB series and Axis® came		act Panasonic for BB series and Axis® cameras	
Cameras		Supported Image Format 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 Auc		G.726 (ADPCM) 32 kbps		
	Maximum Number	of Cameras			
Recording	Recording Mo	de	Manual, Schedule including Event (Pr	re/Post), Emergency	
	Pre-Event Rec	ording	Up to 15 minutes with dedicated HDE	O for Pre-Event.	
			Shorter Pre-Event recording is possib	le without dedicated HDD.	
	Scheduled Recording Mode		8 programs, 6 time zones/day, Indepe	endent setup for each day of the weel	
	Frame Rate/Ca	amera	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 mode	
GUI	REC/Playback	Control	REC, PLAY, Rev PLAY, Pause, Stop,	FF, REW, Prev Record, Next Record,	
			Prev Image, Next image, Goto Date, 0		
	Search Mode		Filtered search: Time date, Event type		
			VMD search: one detection areas per search (work		
	Display Mode		Spot/Quad (16 patterns) / Spot Sequence		
	Camera Group	ina	8 groups each with 16 characters title		
	Image Downlo		Recorded data of selected camera an		
	Image Bowino	uu	to a PC. Viewer software can be downloaded separately.		
	SD Memory Da	nto.	Images recorded in the SD card in the i-PRO series cameras can be		
		ala	=		
	Download		transferred to the recorder automatical		
	Copy		Recorded data of selected cameras and time of		
	Camera Title		On the browser, Up to 16 Characters		
	Clock Display		On the browser. Time: 12 H/24 H, Date: 3 forma	its (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, Spar	nish, German, Russian, Chinese, Japanese	
	GUI Language		English, French, Italian, Spanish, Germa		
	Supported OS	*1	Microsoft® Windows® 7,Microsoft® Windo	ows Vista®, Microsoft® Windows® XP SP3	
			The language of OS must be the same as	selected GUI language.	
	Supported Bro	wser	Windows® Internet Explorer® 9.0 (32 bit),		
			Windows® Internet Explorer® 7.0 (32 bi		
	Required PC	JPEG/	CPU: Intel® Pentium® 4 3.0 GHz or fa		
	i ioquiiou i o	MPEG-4	VRAM: 128 MB or more (Min. 64 MB)		
		H.264			
		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		32x Terminal inputs, 64x Camera alarms, Panasonic Alarm Protocol		
Event	Event Mode		Off / On		
	Alarm Action		Alarm recording, e-mail notification, Ala		
			image transfer, Terminal output, Panasoni	ic alarm protocol output, Buzzer, Indicato	
	Alarm Control		Reset, Suspend		
	Event log		750		
	Network Interface				
Network	Network Interfa	ace	Camera port: 10Base-T / 100Base-TX / 10	00Base-T (RJ-45) Client port: 10Base-T /	
Network	Network Interfa	ace	Camera port: 10Base-T / 100Base-TX / 10 100Base-TX / 1000Base-T (RJ-45) Mainte		
Network	Maximum Ban		T		
Network		d Width	100Base-TX / 1000Base-T (RJ-45) Mainte	enance port: 10Base-T (RJ-45)	
Network	Maximum Ban	d Width (Client Port)	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control	d Width (Client Port)	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control Supported Pro	d Width (Client Port)	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail	d Width (Client Port)	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable)	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/P, UDP/P, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi	enance port: 10Base-T (RJ-45) R k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password),	enance port: 10Base-T (RJ-45) k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address),	
Network	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning	d Width (Client Port) stocol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers)	
	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho	d Width (Client Port) toccol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 65,535 except for res	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers)	
External	Maximum Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Method	d Width (Client Port) toccol	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers)	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Methol Alarm Connector (D-sub25pin)	d Width (Client Port) toccol eous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32'2	enance port: 10Base-T (RJ-45) R k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers)	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control	d Width (Client Port) toccol cous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 FTP Port No. (1 – 65,535 except for res Alarm input 1 – 7, 17 – 32°2 Alarm input 8 – 16°2, 1x Alarm output°3, 1x A	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers)	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector	d Width (Client Port) toccol eous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32*2 Alarm input 8 - 16*2, 1x Alarm output*3, 1x A Emergency recording input*2, Power of	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Variance of the served numbers of the served numbers.	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control	d Width (Client Port) toccol cous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Cor User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32"2 Alarm input 8 - 16"2, 1x Alarm output"3, 1x A Emergency recording input"2, Power or recording mode switching"2, Power or	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited IHCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Idam reset input*2, 1x Alarm suspend input*2 Dutage detection input*2, External utage recovery completion output*4,	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector	d Width (Client Port) toccol cous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Cor User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 55,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm corporation and switching 72, Power or recording mode switching 72, Power or Time adjustment input/output 5, +5 V	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Jam reset input'2, 1x Alarm suspend input'2 putage detection input'2, External utage recovery completion output'4, output'6	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector	d Width (Client Port) toccol cous Users ion Alarm	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32'2 Alarm input 8 - 16'2, 1x Alarm output'3, 1x A Emergency recording input'2, Power or recording mode switching'2, Power or imme adjustment input/output'5, + 5 V Network error output'3, Available disk	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Idam reset input ² , 1x Alarm suspend input ² putage detection input ² , External utage recovery completion output ⁴ , output ⁶ space warning output ³ ,	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector	d Width (Client Port) toccol eous Users ion Alarm Alarm Control	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Cor User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 55,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm corporation and switching 72, Power or recording mode switching 72, Power or Time adjustment input/output 5, +5 V	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Idam reset input ² , 1x Alarm suspend input ² putage detection input ² , External utage recovery completion output ⁴ , output ⁶ space warning output ³ ,	
External	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector	d Width (Client Port) rtocol cous Users ion Alarm Alarm Control Error/ Warning	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32'2 Alarm input 8 - 16'2, 1x Alarm output'3, 1x A Emergency recording input'2, Power or recording mode switching'2, Power or imme adjustment input/output'5, + 5 V Network error output'3, Available disk	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Variance input*2, 1x Alarm suspend input*2 butage detection input*2, External utage recovery completion output*4, output*6 space warning output*3, put*3, Error output*3, put*3, Error output*3	
External Interface	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin)	d Width (Client Port) tocol cous Users ion Alarm Alarm Control Error/ Warning ge	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32'2 Alarm input 8 - 16'2, 1x Alarm output'3, 1x A Emergency recording input'2, Power or recording mode switching'2, Power or ime adjustment input/output's, +5 V Network error output'3, Available ide MDD error output'3, Gamera error out High-speed serial interface 1.5 Gbps (theoretic	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Idam reset input*2, 1x Alarm suspend input*2 butage detection input*2, External utage recovery completion output*4, output*6 space warning output*3, put*3, Error output*3 cal value) Only for WJ-HDE400 Extension Unit	
External Interface	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storag Time Synchror	d Width (Client Port) tocol cous Users ion Alarm Alarm Control Error/ Warning ge	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - FTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32"2 Alarm input 8 - 16"2, 1x Alarm output"3, 1x Alarm input 9 recording input"2, Power or cording mode switching"2, Power or increa adjustment input/output"3, +5 V Network error output"3, Available disk HDD error output"3, Camera error outpithgh-speed serial interface 1.5 Gbps (theoretic Terminal (Master or Slave), NTP (Serv	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Idam reset input*2, 1x Alarm suspend input*2 butage detection input*2, External utage recovery completion output*4, output*6 space warning output*3, put*3, Error output*3 cal value) Only for WJ-HDE400 Extension Unit	
External Interface Other Functions	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storag Time Synchror Summer Time	d Width (Client Port) tocol cous Users ion Alarm Alarm Control Error/ Warning ge	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 8 - 16°2, 1x Alarm output 3, 1x A Emergency recording input 2, Power or recording mode switching 2, Power or imme adjustment input/output 5, +5 V Network error output 3, Available disk HDD error output 3, Camera error outfligh-speed serial interface 1.5 Gbps (theoretic Terminal (Master or Slave), NTP (Serv User definable (using menu setup)	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Jamm reset input*2, 1x Alarm suspend input*2 butage detection input*2, External utage recovery completion output*4, output*8 space warning output*3, put*3, Error output*3 all value) Only for WJ-HDE400 Extension Uniter/Client)	
External Interface Other Functions	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storay	d Width (Client Port) rtocol cous Users ion Alarm Alarm Control Error/ Warning ge alization	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 3 - 16°2, 1x Alarm output'3, 1x A Emergency recording input'2, Power or recording mode switching'2, Power or recording mode switching'2, Power or imme adjustment input/output'5, +5 V Network error output'3, Available disk HDD error output'3, Camera error out; ligh-speed serial interface 1.5 Gbps (Rheoretic Terminal (Master o Slave), NTP (Serv User definable (using menu setup) 3.5 inch Serial ATA HDD, Up to 9x HD	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Introl, No Access In	
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External Interface Other Functions	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storae Time Synchror Summer Time Type Maximum Cap RAID	d Width (Client Port) rtocol cous Users ion Alarm Alarm Control Error/ Warning ge alization	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 8 - 16°2, 1x Alarm output³, 1x A Emergency recording input², Power or ercording mode switching², Power or ime adjustment input/output³, -5 V Network error output³, Camera error out High-speed serial interface 1.5 Gbps (theoretic Terminal (Maister or Slave), NTP (Serv User definable (using menu setup) 3.5 inch Serial ATA HDD, Up to 9x HD 54 HDD slots (with 5x WJ-HDE400 Extens RAID 5/6 supported	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Host authentication (IP address), 65,536 except for reserved numbers) Introl, No Access) Introl, No Access In	
External Interface Other Functions HDD	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Stora Time Synchror Summer Time Type Maximum Cap RAID Partitioning	d Width (Client Port) rtocol cous Users ion Alarm Alarm Control Error/ Warning ge acity	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 3 - 16°2, 1x Alarm output 3, 1x A Emergency recording input 2, Power or recording mode switching 2, Power or recording mode switching 2, Power or imme adjustment input/output 5, +5 V Network error output 3, Camera error output 19th-speed serial interface 1.5 Gbps (theoretic Terminal (Master or Slave), NTP (Serv User definable (using menu setup) 3,5 inch Serial ATA HDD, Up to 9x HE 54 HDD slots (with 5x WJ-HDE400 Extens RAID 5/6 supported Normal / Event / Pre-Event / Copy	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Jamm reset input*2, 1x Alarm suspend input*2 putage detection input*2, External utage recovery completion output*4, output*6 space warning output*3, put*3, Error output*3 all value) Only for WJ-HDE400 Extension Unit er/Client) DDS can be installed. sion Units, 9x HDDs installed in each unit)	
External Interface	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storay Time Synchror Summer Time Type Maximum Cap RAID Partitioning Playback Cont	d Width (Client Port) trocol acous Users ion Alarm Alarm Control Error/ Warning ge aization	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Atteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 1 - 7, 17 - 32°2 Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3,	enance port: 10Base-T (RJ-45) I k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) served numbers) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) Introl, No Access) Introl, No Access) Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) Introl, No Access) Introl, No Access Introl,	
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External Interface Other Functions HDD	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storay Time Synchror Summer Time Type Maximum Cap RAID Partitioning Playback Cont	d Width (Client Port) toccol acous Users ion Alarm Alarm Control Error/ Warning ge nization acity rol ctions	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 K / 128 K / 256 K / 512 K / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Col User authentication (ID and password), Atteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 1 - 7, 17 - 32°2 Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm output'3, 1x Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm input 3 - 16°2, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3, 1x Alarm input 3 - 16°3, 1x Alarm output'3,	enance port: 10Base-T (RJ-45) It k / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), - 65,535 except for reserved numbers) served numbers) Idarm reset input*2, 1x Alarm suspend input*2 putage recovery completion output*4, output*3 space warning output*3, space warning output*3, al value) Only for WJ-HDE400 Extension Uniter/Client) DDs can be installed. Sion Units, 9x HDDs installed in each unity output server.	
External Interface Other Functions HDD Viewer Software	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Stora, Time Synchror Summer Time Type Maximum Cap RAID Partitioning Playback Cont Additional Fun	d Width (Client Port) rtocol acous Users ion Alarm Alarm Control Error/ Warning ge nization acity rol ctions Language	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, FTP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Cot User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,535 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 1 - 7, 17 - 32°2 Alarm input 3 - 16°2, 1x Alarm output 3, 1x Alarm output 3, 1x Alarm output 3, 1x Alarm output 3, 1x Alarm input 4 - 7, 17 - 32°2 Alarm input 5, 4 Nover or recording input 7, Power or recording mode switching 7, Power or incording mode switching 7, Power or infine adjustment input/output 5, +5 V Network error output 3, Available disk HDD error output 3, Camera error out High-speed serial interface 1.5 Gbps (theoretic Terminal (Master or Slave), NTP (Serv User definable (using menu setup) 3.5 inch Serial ATA HDD, Up to 9 x HZ 54 HDD slots (with 5x WJ-HDE400 Extern RAID 5/6 supported Normal / Event / Pre-Event / Copy Play, Rev Play, Pause, FF, REW, Prev Rec Alteration detection, Save as JPEG, T	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) Idam reset input*2, 1x Alarm suspend input*2 putage detection input*2, External utage recovery completion output*4, output*6 Is pace warning output*3, put*3, Error output*3 Is put*3, Error output*3	
External Interface Other Functions HDD Viewer Software General Specifications	Maximum Ban Bandwidth Control Supported Pro E-mail FTP Client No. of Simultane User Registrat User level Partitioning Security Metho Alarm Connector (D-sub25pin) Alarm/Control Connector (D-sub25pin) External Storae Time Synchror Summer Time Type Maximum Cap RAID Partitioning Playback Cont Additional Fun Supported OS,	d Width (Client Port) rtocol acous Users ion Alarm Alarm Control Error/ Warning ge nization acity rol ctions Language	100Base-TX / 1000Base-T (RJ-45) Mainte Total 200 Mbps 32 K / 64 k / 128 k / 256 k / 512 k / 1,024 TCP/IP, UDP/IP, HTTP, ETP, SMTP, D Upon Alarm or Warning Upon alarm or Periodic transfer 16 Up to 32 users 4 Levels (Programmable) User - Camera (View only, View & Coi User authentication (ID and password), Alteration detection, HTTP Port No. (1 - 65,635 except for res Alarm input 1 - 7, 17 - 32°2 Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x Alarm input 8 - 16°2, 1x Alarm output 3, 1x A	enance port: 10Base-T (RJ-45) Ik / 2 M / 5 M / 10 M (bps) and unlimited HCP, DNS, DDNS, NTP, SNMP, RTP Introl, No Access) Host authentication (IP address), 65,535 except for reserved numbers) Idam reset input*2, 1x Alarm suspend input*2 putage detection input*2, External utage recovery completion output*4, output*6 Is pace warning output*3, put*3, Error output*3 Is put*3, Error output*3	

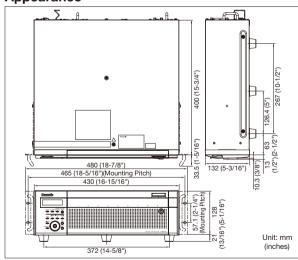
TV System		NTSC	PAL	
General	Power Source	120 V AC, 60 Hz	220 ~ 240 V AC, 50 Hz	
Specifications	Power Consumption	approx. 170 W		
	Ambient Operating Temperature	+5 C ~ +45 C (41 F ~ 113	F)	
Ambient Operating Humidity		5 % ~ 90 % (no condensation)		
	Maximum Operating Altitude	2,000 m (6,500 feet) above sea level		
	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 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



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 - All product pictures are NTSC models.

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*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