# Panasonic BUSINESS

## Network Disk Recorder WJ-NV300



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

#### **Key Features**

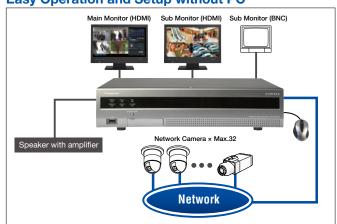
- H.264 and JPEG multi format
- 9 network cameras can be connected and recorded as default.
   Up to 32 \*1 network cameras can be connected and recorded.
- Quick setup by automatic camera detection and simple setup wizard without the use of PC
- "Referenced recording days" is automatically calculated 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<sup>\*1</sup> cameras can be displayed simultaneously.
- Supports the Full HD and 4K<sup>2</sup> 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<sup>-1</sup> split screen display on a full screen),
   Sequence (1 screen, 4 / 9 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 port for USB storage. 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.
- Supports 360-degree network microphone (WV-SMR10)
- ONVIF client, conformance to ONVIF Profile S.
- \*1 Three Additional Camera Kits WJ-NVE30 are necessary.
- \*2 Only when full screen display on main monitor

#### **Additional Kit**



### **Easy Operation and Setup without PC**

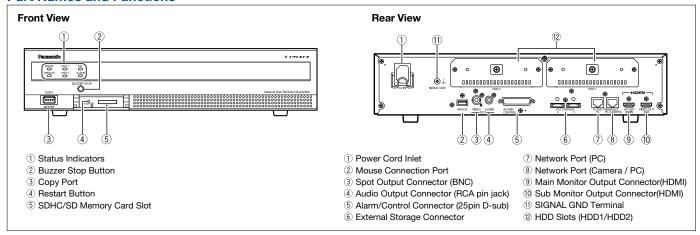


### **Specifications**

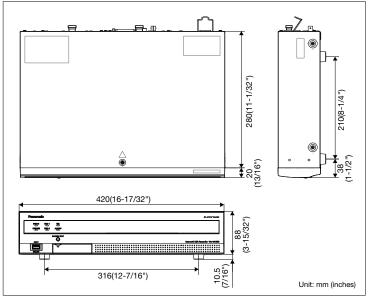
	fications	
TV System		PAL
Cameras	Compatible vendor	Panasonic i-PRO series Network cameras,
		ONVIF NVT conformant camera and encoder
	Supported Image Format	H.264, MJPEG
	Supported Image Resolution	Aspect ratio [4:3]
	(Depending on the camera)	2,560 x 1,920, 2,048 x 1,536, 1,280 x 960, 800 x 600, 640 x 480, 320 x 240
		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
	Supported Audio Format	G.726 (ADPCM) 32 kbps
	Maximum Number of Cameras	MAX. 32*1 (Default number of cameras : 9)
Recording		Event, Schedule
Mala Hala	Pre-alarm Recording	Up to 15 seconds (Up to 10 seconds at 1,920 x 1080 resolution and up to 5 seconds at QXGA)
	Scheduled Recording Mode	4 programs, 3 time zones/day, Independent setup for each day of the week
	Frame Rate/Camera Camera Control	Up to 60 ips (Depending on the camera)
Main Unit Functions		Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode, Click centering, Wheel zoom, Zoom reset, Auto Back Focus
	Multiscreen Mode	Main Monitor
		4/16 split screen display, 1 screen sequence / 4 split screen sequence / 9 split screen sequence and 4 / 6 / 9 / 12 / 16 / 24 / 32*
		split screen display on a full screen (*24-/32-multiscreen is available when sub monitor isn't on.)
		Sub Monitor
		1 screen sequence / 4 split screen sequence / 9 split screen sequence / 16 split screen display
	Playback Control	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, Playback by designating a timeline, VMD
	Сору	Recorded data of selected cameras and time date range can be copied to the SD (SDHC) card and USB storage.
	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), 1.25x, 1.50x, 1.75x, 2x,
	3	2.5x, 3x, 3.5x, 4x, 5x, 6x, 7x 8x (only for 1-screen on a full 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,
	Cyclem Colup	Portuguese, Japanese, Thai
	360 Camera Dewarp	Only 1ch display mode.
	re-encoding	1Client
	Real Time Face Matching *2	Camera 2ch, 100 registered face images
Browser	Camera Control	Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256)
GUI		Auto mode, Click centering, Wheel zoom, Zoom reset
	Playback Control	REC, 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)
	Display Mode	Search criteria : Time date, Event type, VMD, Camera number 1 / 4 screen
	Image Download	Recorded data of selected camera and time range can be downloaded to a PC.
	image zemilead	Viewer software can be downloaded separately.
	SD Memory Data 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 Control	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 Supported OS	English, French, Italian, Spanish, German, Russian, Portuguese, Japanese, Thai Microsoft® Windows® 8.1
	Supported OS	
		Microsoft® Windows® 7
		Microsoft® Windows® 7 Microsoft® Windows Vista®
	Supported Browser	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit)
	Supported Browser	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit)
	Supported Browser	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit)
	Supported Browser	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit)
		Microsoft® Windows Vista® 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)
	Supported Browser  Required PC	Microsoft® Windows Vista® 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) CPU: Intel® Core™ i7-920 or faster™, RAM: 3 GB or more,
Alarm/		Microsoft® Windows Vista® 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) CPU: Intel® Core™ 17-920 or faster³, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later
Alarm/ Event	Required PC	Microsoft® Windows Vista® 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) CPU: Intel® Core™ i7-920 or faster™, RAM: 3 GB or more,
	Required PC	Microsoft® Windows Vista® 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® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol),
	Required PC  Alarm Source	Microsoft® Windows Vista® 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® 7 (32 bit) CPU: Intel® Core™ I7-920 or faster ³, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms
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	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 10 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU: Intel® Core™ I7-920 or faster ³3, RAM: 3 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset
Event	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log	Microsoft® Windows Vista® 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) CPU : Intal® Core™ 17-920 or faster³, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750
Event Input /	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log  Spot Output Connector	Microsoft® Windows Vista® 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® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC)
Event	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz,
Event Input /	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log  Spot Output Connector	Microsoft® Windows Vista® 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® 7 (32 bit) CPU : Intel® Core™ I7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz,
Event Input /	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log  Spot Output Connector	Microsoft® Windows Vista® 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® 7 (32 bit) CPU: Intel® Core™ I7-920 or faster³, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz
Event Input /	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log  Spot Output Connector  Monitor (HDMI) Connector	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBx, 600 Ω, Unbalanced (RCA)
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log  Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Alarm / Alarm	Microsoft® Windows Vista® 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® 7 (32 bit) CPU : Intel® Core™ I7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 - 9¹⁴, Alarm output¹⁵, Alarm reset input¹⁴
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Alarm / Alarm Control Connector / Control	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU: Intel® Core™ i7-92 0 or faster³, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 − 9 ⁴4, Alarm output¹5, Alarm reset input⁴ Time adjustment input⁴, +5 V output¹6
Event Input /	Required PC  Alarm Source  Event Mode  Alarm Action  Alarm Control  Event log  Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Audio Output Connector  Control Connector / Control  D-sub 25pin Error/	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster '3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 1920 x 1080i /50Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 − 9¹², Alarm output¹⁵, Alarm reset input¹⁴ Time adjustment input¹⁴, +5 V output¹⁶ Network error output¹⁵, HDD error output¹⁵, Camera error output¹⁵,
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Alarm / Control Connector /  Control Connector /  D-sub 25pin   Error/ Warning	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 1920 x 1080i /50Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 - 9³, Alarm output⁵s, Alarm reset input⁴ Time adjustment input⁴, +5 V output⁵ Network error output⁵s, HDD error output⁵5, Camera error output⁵5, Recorder error output⁵5, Recording error output⁵5
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log  Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Alarm / Alarm  Control Connector / Control  D-sub 25pin Error/  Warning  Mouse Connection Port	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 - 9¹⁴, Alarm output¹⁵, Alarm reset input¹⁴ Time adjustment input⁴, +5 V output¹⁶ Network error output¹⁵, Recording error output¹⁵, Recorder error output¹⁵, Recording error output¹⁵
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control Event log Spot Output Connector Monitor (HDMI) Connector  Audio Output Connector Alarm / Alarm Control Connector / D-sub 25pin Error/ Warning Mouse Connection Port Network Port	Microsoft® Windows Vista® Windows® Internet Explorer® 11 (32 bit) Windows® Internet Explorer® 19 (32 bit) Windows® Internet Explorer® 9 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Coret™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 - 9¹⁴, Alarm output¹⁵, Alarm reset input⁴ Time adjustment input ⁴, +5 V output¹⁶ Network error output¹⁵, Recording error output¹⁵ Network error output¹⁵, Recording error output¹⁵ 1x 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)
Event Input /	Required PC  Alarm Source  Event Mode Alarm Action  Alarm Control  Event log  Spot Output Connector  Monitor (HDMI) Connector  Audio Output Connector  Alarm / Alarm  Control Connector / Control  D-sub 25pin Error/  Warning  Mouse Connection Port	Microsoft® Windows Vista® 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® 8 (32 bit) Windows® Internet Explorer® 7 (32 bit) CPU : Intel® Core™ i7-920 or faster ³3, RAM : 3 GB or more, VRAM : 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 9x Terminal inputs, 32x Camera alarms (Panasonic Alarm Protocol), 128x Command alarms Off / On Alarm recording, e-mail notification, Alarm message, Camera positioning, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator Reset 750 1x 1 V [p-p] / 75 Ω (BNC) 2x HDMI 1920 x 1080p /60Hz, 1920 x 1080p /50Hz, 1920 x 1080i /60Hz, 1920 x 1080i /50Hz, 720 x 576p /50Hz, 720 x 480p /60Hz, 3840 x 2160p /30Hz, 3840 x 2160p /25Hz (only for main monitor on a full screen "SUb-monitor is not available in this case 1x −10 dBv, 600 Ω, Unbalanced (RCA) Alarm input 1 - 9¹⁴, Alarm output¹⁵, Alarm reset input¹⁴ Time adjustment input⁴, +5 V output¹⁶ Network error output¹⁵, Recording error output¹⁵, Recorder error output¹⁵, Recording error output¹⁵

TV System		PAL
Network	Network Interface	2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)
	Maximum Recording Rate	128 Mbps or less
	Maximum Band Width	Total 160 Mbps or less
	Supported Protocol	TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, NTP,
		SNMP, RTP
	E-mail	Upon Alarm or Warning
	FTP Client	2
	No. of Simultaneous Users	8 or less
	User Registration	Up to 16 users
	User Level	3 Levels (Programmable)
	Partitioning	User level - Camera (View & Control, No Access)
	Security Method	User authentication (ID and Password),
		Alteration detection
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	6 TB*7
	RAID	Single, RAID1, 5*8, 6*8
Viewer	Playback Control	Play, Rev Play, Pause, FF, FR, Prev Record,
Software		Next Record, Prev Image, Next Image
	Additional Functions	Alteration detection, Save as JPEG,
		Two times zoom, Print, Copy
	Supported OS, Language	Language of the software will be English
General	Safety / EMC Standard	CE (EN60065, EN55032 ClassB, EN55024),
Specifications		EAC
	Power Source	220 V - 240 V AC 50 Hz/60 Hz (PAL)
	Power Consumption	approx. 55 W (with 4 TB HDD x2)
	Ambient Operating Temperature	Main body: +5 °C to +45 °C (41 °F to 113 °F)
		Mouse (provided): +5 °C to +40 °C (41 °F to 104 °F)
	Ambient Operating Humidity	5 % to 90 % (without condensation)
		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.)	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

#### **Part Names and Functions**



### **Appearance**



#### **Optional Accessory**



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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.
- · All TV pictures are simulated.
- Masses and dimensions are approximate.
- · Specifications are subject to change without notice.

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