Panasonic
ideas for life

4CH MPEG-4/JPEG Video Encoder with Video Analytic
WJ-NT314
4CH MPEG-4/JPEG Video Encoder
WJ-NT304

NTSC **WJ-NT314** (12 V DC, 120 V AC adapter attached)   PAL **WJ-NT314** (12 V DC, 220 ~ 240 V AC adapter attached)
WJ-NT304 (12 V DC, 120 V AC adapter attached)   **WJ-NT304** (12 V DC, 220 ~ 240 V AC adapter attached)

i-pro

MPEG-4/JPEG

4CH MPEG-4/JPEG dual streaming Video Encoder featuring 2CH Video Analytic (WJ-NT314)

Key Features

• Up to 4 analog cameras can be connected.
• MPEG-4/JPEG digital signal output at VGA image size with up to 30 ips
• MPEG-4 and JPEG dual stream output for simultaneous live monitoring and high resolution recording
• Progressive output allows every frame to be clear even when the subject is moving.
• Video Analytic (WJ-NT314 only): 8 detection programs, each with three intruder detection areas and one object abandonment / removal detection area. Up to 8 detected objects per channel can be traced. Depth correction allows more accurate detection when the scene includes deeper depth.
• Panasonic camera control: Pan / Tilt / Zoom / Focus / Iris / Preset position (up to 256), Auto mode, Setup menu. AUX, B/W ON/OFF/ Auto, Click centering
• Unit title display: Up to 20 alphanumeric characters on browser
• Camera title display: Up to 20 alphanumeric characters on browser
• SD memory card slot for alarm recording and backup upon network failure. Recorded data can be downloaded by using FTP command.
• Alarm sources including 2x AVMD (WJ-NT314 only), 4x Terminal inputs, 4x Camera alarms, 4x Video loss alarms and Panasonic alarm protocol can trigger actions including SD memory recording/FTP image transfer, E-mail notification, Alarm indication, Terminal output and Panasonic protocol output.
• Bi-directional audio (1CH)
• Built-in network interface (10Base-T / 100Base-TX)
• Multiscreen: Images from 16 cameras can be displayed in four separate Quad screens (JPEG only). 20 characters camera title is available for each camera.
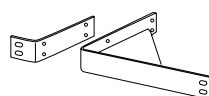
• Alarm e-mail notification
• Max bit rate/client for MPEG-4 (64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 2,048 / 4,096 / 6,144 kbps) combined with Total bit rate control (64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 / 8,192 / 16,384 kbps / Unlimited) allowing flexible network management.
• Supported protocol: TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, RTP and SNMP
• Multi-language capable by localization
• FTP client function enables periodic image data transfer or transfer upon alarm.
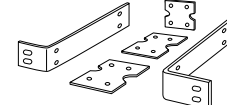
Standard Accessories

• Operating Instructions .... 1 pc.
• Warranty card
  (NTSC model only) .... 1 pc.
• CD-ROM* .... 1 pc.

The following are for installation.
• AC adapter .... 1 pc.

• Code label .... 1 pc.
• Power cord (NTSC model) .... 1 pc.
• Power cord (PAL model) .... 2 pcs.

* The CD-ROM contains the operating instructions (PDFs) and the setup tools (Panasonic IP setup software, etc.).

Optional Accessories

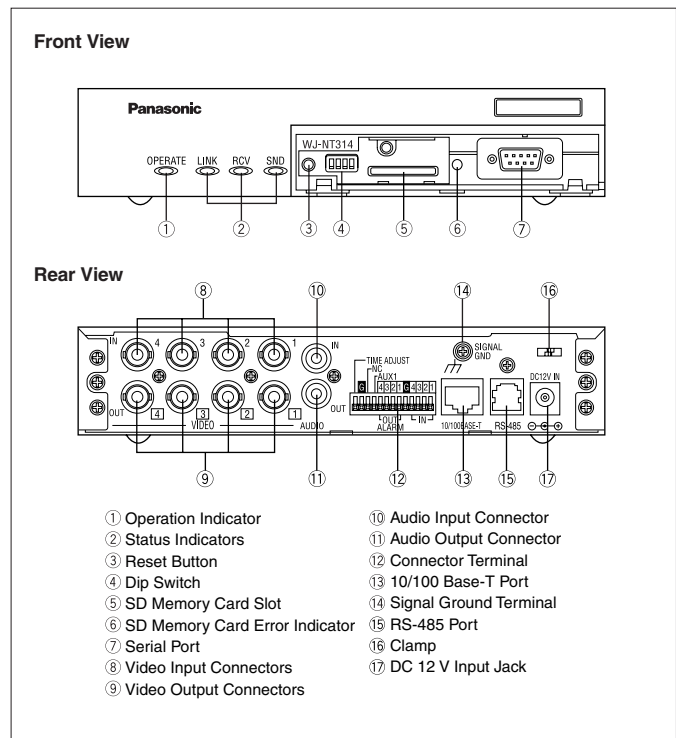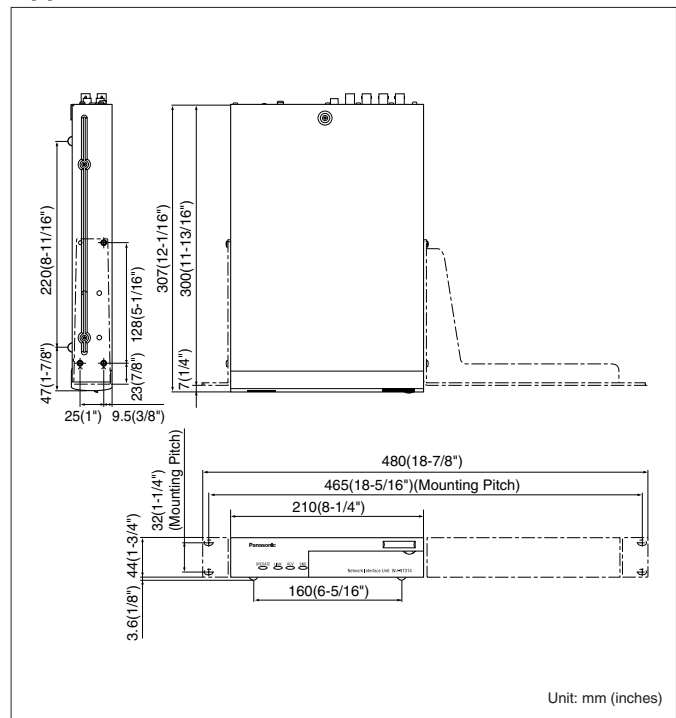| EIA19-type Rack Mounting Bracket **WV-Q204/1S** (for mounting one WJ-NT314/NT304)	EIA19-type Rack Mounting Bracket **WV-Q204/2S** (for mounting two WJ-NT314/NT304)

Specifications

TV System		NTSC	PAL
Audio / Video IF	Video Inputs	4x 1.0 V [p-p] / 75 Ω NTSC composite video inputs (BNC) Multiplexed control data and cable compensation compatible: 1 ~ 4 CH	4x 1.0 V [p-p] / 75 Ω PAL composite video inputs (BNC) Multiplexed control data and cable compensation compatible: 1 ~ 4 CH
	Video Loop Through Output	Active loop through outputs: 1 ~ 4 CH	
	Audio Input	1x −10 dBv, 10 KΩ, Unbalanced, RCA	
	Audio Output	1x −10 dBv, 600 Ω Unbalanced, RCA	
Audio / Video Format	Image Resolution	JPEG: VGA (640 x 480) / QVGA (320 x 240), MPEG-4: VGA (640 x 480) / QVGA (320 x 240)	
	Image Compression	MPEG-4: Image quality: 3 steps, Transmission type: UNICAST/MULTICAST JPEG: Image quality: 10 steps, Transmission type: PULL/PUSH	
	Image Refresh Rate	0.1 ips ~ 30 ips (30 ips is performed with input from one camera. Frame rate of JPEG display will be limited when displaying JPEG and MPEG-4 simultaneously)	0.1 ips ~ 25 ips (25 ips is performed with input from one camera. Frame rate of JPEG display will be limited when displaying JPEG and MPEG-4 simultaneously)
	Audio Compression Method	G.726 (ADPCM), 16/32 kbps Bi-directional between PC and WJ-NT314. CH1 only.	
Browser GUI	Camera Control	Pan / Tilt / Zoom / Focus / Iris / Preset position (up to 256), Auto mode, Setup menu. AUX. B/W ON/OFF/Auto, Click centering	
	Display Mode	Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad screens (JPEG only). 20 characters camera title available.	
	Unit Title	On the browser, Up to 20 Characters	
	Camera Title	On the browser, Up to 20 Characters	
	Clock Display	On the browser, Time: 12H/24H, Date: 5 formats	
	Alarm Control	Reset	
	Audio	OFF / Mic input / Audio output / Interactive	
	GUI Language	English (Localization capable)	
	Setup Menu Language	English (Localization capable)	
	System Log	Approx. 100 (Internal), Approx. 4,000 (SD memory) error logs	
	Supported OS	Microsoft® Windows® XP Professional/Home SP2 Microsoft® Windows Vista Professional/Home	
	Supported Browser	Microsoft® Internet Explorer® 6.0 SP2 Microsoft® Internet Explorer® 7.0	
Video Analytic (WJ-NT314 only)	Detection Channels	Two channels at a time	
	Detection Area Setup	Three intruder detection areas and one object abandonment / removal detection area per program (Polygonal areas). Up to 8 detection programs can be assigned across 4 camera channels each with 256 preset positions. One mask area per program.	
	Sensitivity	Sensitivity: Auto, Depth correction setup: Auto/Manual	
	Display Mode	Program ID: 20 characters, Tracking display: ON/OFF, Frame display: ON/OFF	
	Alarm Action	Different preset positions can be called corresponding to the 8 detection programs.	
	Schedule	Individual schedule/program, One time zone per each day of the week	
Alarm	Alarm Source	2x AVMD (WJ-NT314 only), 4x Terminal inputs, 4x Camera alarms, 4x Video loss alarms, Panasonic alarm protocol	
	Alarm Action	SD memory recording/FTP image transfer, e-mail notification, Indication on browser, Camera positioning, Terminal output, Panasonic protocol output	
Network	Network Interface	10 BASE-T / 100 BASE-TX, RJ-45 Connector	
	Maximum Band Width	Total 32 Mbps	
	Total Bit Rate Control	64 / 128 / 256 / 512 / 1,024 / 2,048 / 4,096 / 8,192 / 16,384 kbps / Unlimited	
	Max Bit Rate / Client (MPEG-4)	64 / 128 / 256 / 512 / 1,024 / 1,536 / 2,048 / 3,072 / 4,096 / 6,144 kbps	
	Audio Transmission Mode	OFF / Mic input / Audio output / Interactive (Half duplex)	
	Supported Protocol	TCP/IP, UDP/IP, HTTP, RTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP	
	FTP Client	Periodic image transfer: Interval 5 sec ~ 24 H, Alarm image transfer: 0.1 ~ 1.0 ips, 1 ~ 5,000 images	
	No. of Simultaneous Users	Up to 8 users/channel, Up to 16 users/unit (Depends on network conditions)	
	SD Memory Card (Option)	Alarm REC / Backup upon network failure. Compatible SD card: Panasonic 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB model	
	E-mail	Upon Alarm or Warning, Up to 4 addresses	
	User Registration	Up to 16 users	
	User/Host Level	3 Levels: Administrator, Camera control, Live only	
	Security Measures	User authentication (ID 32 digit, PW 32 digit), Host authentication (IP address)	
External IF	Alarm	4x Input (Make contact), 4x Output (Open collector, Latch / Pulse, N.O. / N.C.)	
	Control	1x AUX output, 1x Time adjustment input	
	RS-485 port	1x RS-485 (RJ-11), 4 wire, full/Half duplex, Supports UDP-Serial conversion	
General Specifications	Safety / EMC standard	UL (6500 Edition2), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA)	CE (EN55022, EN55024, ClassB), GOST (R 51558)*
	Power Source and Power Consumption	12 V DC 1.0 A (120 V AC 60 Hz adapter provided)	12 V DC 1.0 A (220 ~ 240 V AC 50 Hz adapter provided)
	Ambient Operating Temperature	−10 °C ~ +50 °C (14 °F ~ 122 °F)	
	Ambient Operating Humidity	90 % or less (without condensation)	
	Dimensions	210 mm x 44 mm x 307 mm (8-1/4" x 1-3/4" x 12-1/16")	
	Weight (approx.)	2.0 kg (4.4 lbs.)	

* GOST: WJ-NT304 only

DISTRIBUTED BY:

Part Names and Functions

Front View

Rear View

① Operation Indicator
② Status Indicators
③ Reset Button
④ Dip Switch
⑤ SD Memory Card Slot
⑥ SD Memory Card Error Indicator
⑦ Serial Port
⑧ Video Input Connectors
⑨ Video Output Connectors
⑩ Audio Input Connector
⑪ Audio Output Connector
⑫ Connector Terminal
⑬ 10/100 Base-T Port
⑭ Signal Ground Terminal
⑮ RS-485 Port
⑯ Clamp
⑰ DC 12 V Input Jack

Appearance

Unit: mm (inches)

Trademarks and registered trademarks
– Microsoft, and Windows are registered trademarks of Microsoft Corporation in the U.S. and other countries.
Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

- All TV pictures/menu are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- Product pictures shown in this catalog are all NTSC models.

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