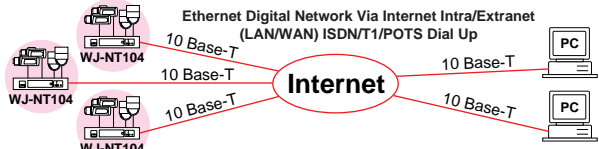# Panasonic®

Monitoring enters the global network era

Monitoring on a PC from anywhere via Network (LAN / WAN or the Internet).

The WJ-NT104 unit is fully equipped with image capture, JPEG, and HTTP server functions. It can provide images from up to four video sources with a 10BASE-T Ethernet Network.

Multiple site Monitoring can be conducted from multiple location (PC), enabling you to configure monitoring setups to suit your requirements.

The WJ-NT104 supports PC-based monitoring via a LAN / WAN or the Internet, enabling it to be used as part of an extremely flexible monitoring configuration. The WJ-NT104 overcomes time and location constraints, and can also be used as a tool for information service and other applications, in addition to basic monitoring applications.

Ethernet Digital Network Via Internet Intra/Extranet (LAN/WAN) ISDN/T1/POTS Dial Up

10 Base-T
WJ-NT104
10 Base-T
Internet
WJ-NT104
10 Base-T
WJ-NT104
10 Base-T
PC
10 Base-T
PC

Monitoring System

Sites can be monitored from any desk, allowing precise, real-time checks of current activity.

at School

at Factory / Office　　**at Parking-lot**　　**at Hospital / Day Care Center**

Information Service

Local images can be distributed over network allowing sites to provide attractive, real-time images at each independent PC work station.

Traffic Information Service　　**Live Image Service**

Easy monitoring with a conventional browser

Use of TCP/IP protocols enables easy monitoring from a regular PC* browser. *PC···Personal Computer with Microsoft® Windows for operation installed

Main Page

Operating screen can be customized
The WJ-NT104 incorporates a built-in homepage.
This can be replaced with the user's own homepage as required.
*Customization is optional.

● **Simple on-screen settings**
The SYSTEM SETUP, NETWORK, ALARM, SERIAL PORT, MODEM, USER, HOST, DATE/TIME, and CAMERA MENU settings can all be configured on the screen.

AV Disc Recorder
WJ-DR200

Digital Video Duplex Multiplexer
WJ-FS616

Matrix Control System
System500

Wide variety of page menus to suit the panasonic surveillance equipment.

Select from four operating modes to suit your requirements

Up to four video sources can be connected to a single WJ-NT104 unit. Four modes (listed below) are available for effective use of input from multiple video sources. Different modes can be selected to suit your requirements.

View distributed images : RANDOM INPUT SELECTION MODE

This mode sends the same channel (the last one selected) to all users. If a user selects a new channel, the channel switches on other users' screens as well.

Video Sources
1 2 3 4　WJ-NT104　1 1 1 1　PC PC PC PC

View images individually : MULTIPLE INPUT SELECTION MODE

This mode allows each user to view the individual channels he/she has selected.
The channels do not change even if other users select different channels.

Video Sources
1 2 3 4　WJ-NT104　1 2 3 4　PC PC PC PC

Supervisor can specify images : FIXED INPUT SELECTION MODE

This mode sends the same channel specified by the supervisor to all users.
Channels cannot be switched at the user level.

Video Sources
WJ-NT104　1 1 1 1　PC PC PC PC

Automatic image switching by : SEQUENCE MODE

This mode sends the same, automatically switched camera images to all users.
The switching interval can be specified at the settings screen.

Video Sources　Channel switching
1 2 3 4　WJ-NT104　1 1 1 1　PC PC PC PC

Built-in alarm functions enable reliable monitoring

● **Capture critical moments without fail** *<Alarm recording function>*
The following alarm recording functions can be selected as required.

1 Record one frame after receiving alarm
1-shot recording

For car number identification in parking lots, or personnel identification at cash dispensers, strongrooms, or laboratory ID check entrances.

Interval
Time ── Alarm ── 1-shot recording

* The interval can be set between 0 and 10 seconds, in 100mm increments.

2 Record images continuously after receiving alarm
Continuous recording [after]

Useful for confirming personnel activity at reception counters or in shopping areas, and for similar applications.

Interval
Time ── Alarm ── Continuous recording

* The interval can be set between 0 and 10 seconds, in 100mm units.

3 Record images continuously before and after receiving alarm
Continuous recording [before/after]

Records prior to an alarm occurring - useful in locations where continuous recording of an event in progress is required.

Time ── continuous recording (Before) ── Alarm ── continuous recording (After)

* Can only be used in "Fixed input selection mode".

● **Detect important scenes efficiently** *<Alarm notification function>*

Alarm notification can be sent to PC's destination IP address and/or the user's E-mail address. Up to 16 destinations can be registered.

Proprietary Alarm Notification (option) to PC's IP address
PC
Alarm
SMTP E-mail to user
Access
E-mail Forwarding
User's "Pager"
*Pager service is required
PC

Alarm list screen
The image to be displayed can be selected easily from the alarm list.
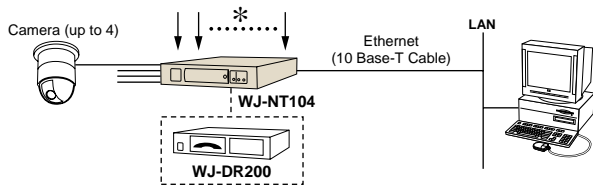
● **Improved recording features by connecting with WJ-DR200**

Connecting to the WJ-DR200 (available separately), which uses DVD-RAM, greatly increases the recording and image-search features available, further improving the monitoring system.
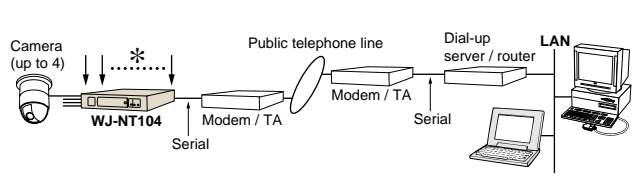
Thumbnail search example
Displays 8 or 16 recorded images altogether on a single screen, allowing easy selection of the images to be viewed.

00016 00015 00014 00013
00012 00011 00010 00009
00008 00007 00006 00005
00004 00003 00002 00001

Example of LAN / WAN connection system

Camera (up to 4)
∗
WJ-NT104
WJ-DR200
Ethernet (10 Base-T Cable)
LAN

Example of PPP connection system

Camera (up to 4)
∗
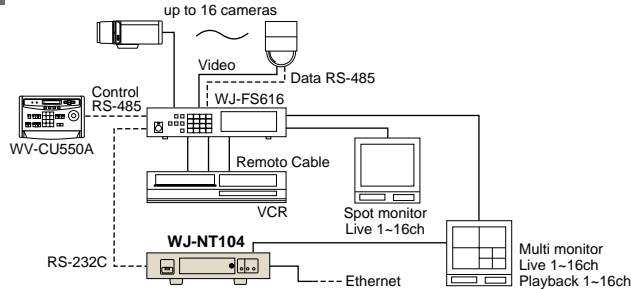WJ-NT104
Serial
Modem / TA
Public telephone line
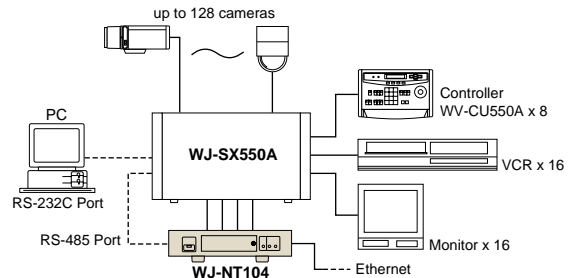Modem / TA
Serial
Dial-up server / router
LAN

∗ Up to 8 alarm input connections or up to 4 alarm inputs outputs

TYPICAL SYSTEM CONFIGURATIONS
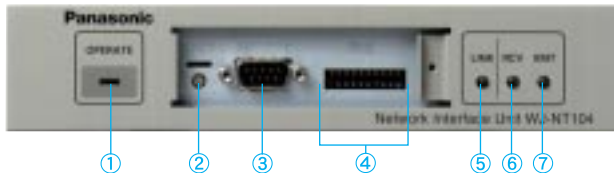
1 Panasonic Multiplexer WJ-FS616 with WJ-NT104

up to 16 cameras
Video
Data RS-485
Control RS-485
WJ-FS616
WV-CU550A
Remoto Cable
VCR
Spot monitor Live 1~16ch
WJ-NT104
RS-232C
Ethernet
Multi monitor Live 1~16ch Playback 1~16ch

2 Panasonic system 500 with WJ-NT104

up to 128 cameras
PC
RS-232C Port
RS-485 Port
WJ-SX550A
Controller WV-CU550A x 8
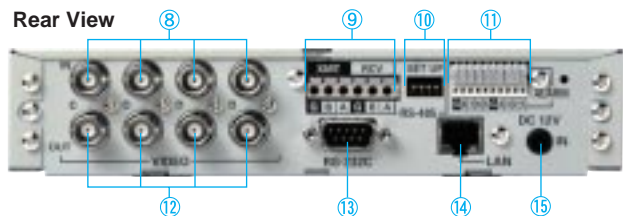VCR x 16
Monitor x 16
WJ-NT104
Ethernet

MAJOR OPERATING CONTROLS

Front View

Rear View

1. Operate indicator
2. Reset switch
3. RS-232C port
4. Mode selector
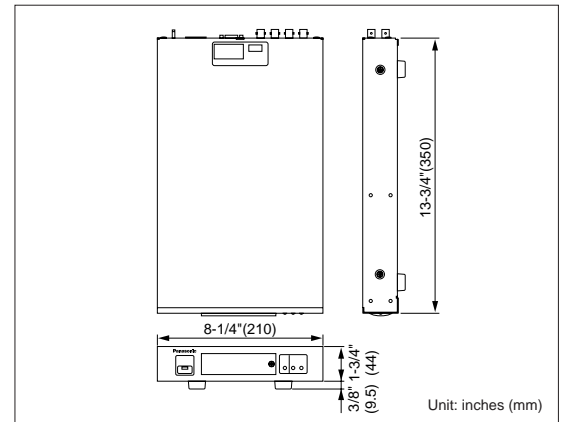5. Link indicator
6. Receiving indicator
7. Transmitting indicator
8. Video input connectors
9. RS-485 connectors
10. RS-485 setup switches
11. Parallel (alarm) control port
12. Video output connectors
13. RS-232C port
14. Ethernet port
15. DC power connector

SPECIFICATIONS

General	
Power Source	12 V DC, 0.8 A
Ambient Operating Temperature	−10˚C - +50˚C (14˚F -122˚F)
Ambient Operating Humidity	Less than 90%
Dimensions (W x H x D)	8-1/4" x 1-3/4" x 13-3/4" (210 x 44 x 350 mm)
Weight	5.06 lbs. (2.3 kg)
Input and Output	
Video Input	1.0 V[p-p]/ 75Ω NTSC Composite Video Signal (x4)
Video Output	1.0 V[p-p]/ 75Ω NTSC Composite Video Signal (x4)
Serial Control Port	RS-232C (9-pin D-sub Connector), RS-485 (Terminal)
Parallel (Alarm) Control Port	Default 8-bit input (I/O selectable for all bits depending on the configuration)
Image Resolution	Selectable from 640 (H) x 480 (V); 640 (H) x 240 (V); 320 (H) x 240 (V); or 160 (H) x 120 (V)
Image Compression	JPEG (image quality selectable by 4 modes)
Installed protocol	HTTP, TCP/IP, PPP, FTP, SMTP
Camera Coaxial Control	Pan/tilt, Zoom, Focus, Preset, Auto Focus (for Combination Camera WV-CS604/CS654 Series)
LAN Interface	10 Base-T Connector
Security measures	Password type
AC Adapter	120 V AC 60 Hz (Power consumption : 17W)

Trademarks
- MS-DOS is a registered trademark of Microsoft Corporation in the U.S.A and other countries.
- Windows and Windows NT are trademarks of Microsoft Corporation in the U.S.A and other countries.
- Netscape Navigator is a trademark of Netscape Communications Corporation.
- Adobe Acrobat Reader is a trademark of Adobe Systems Incorporated.
- Other company names and product names appearing in the manual are registered trademarks or trademarks of the companies concerned.

DIMENSIONS

13-3/4"(350)
8-1/4"(210)
1-3/4" (44)
3/8" (9.5)
Unit: inches (mm)

Optional 19" Mounting Brackets
WV-Q204/1
(for mounting one WJ-NT104)

WV-Q204/2
(for mounting two WJ-NT104)

• All TV pictures are simulated. • Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

Panasonic

Panasonic Security & Digital Imaging Company
A Division of Matsushita Electric Corporation of America

Security Systems Group

Executive Office : One Panasonic Way 3E7, Secaucus, New Jersey 07094
Regional Office
Northeast : One Panasonic Way, Secaucus, NJ 07094 (201) 348-7303
Southern : 1225 Northbrook Parkway, Suite 1-160, Suwanee, GA 30024 (770) 338-6838
Midwest : 1707 North Randall Road, Elgin, IL 60123 (847) 468-5211
Western : 6550 Katella Ave., Cypress, CA 90630 (714) 373-7840

DISTRIBUTED BY:

PANASONIC CANADA INC.
5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada (905) 624-5010
PANASONIC SALES COMPANY
DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.
San Gabriel Industrial Park 65th Infantry Ave. KM. 9.5 Carolina, P.R. 00985 (809) 750-4300

Printed in Japan
[2P-464]