



Network Disk Recorder with expandable capacity for digital image data from up to 32 Network Cameras

Key Features



- H.264, MPEG-4 and JPEG multi format
- Up to 32 network cameras can be connected and recorded.
- Various Recording Modes: Manual, Schedule, Event (Pre/Post), Emergency, External Timer
- Various alarm sources include 16x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol. Flexible alarm actions include Alarm recording, E-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer and Indicator.
- Panasonic Camera Control: Pan/Tilt, Zoom, Focus, Brightness, Preset Position, Auto mode (depending on camera model).
- Cameras may be assigned to one of the 8 groups to meet application requirements.
- Flexible Playback Controls: A-B Repeat, Goto Date (Jump to specific time/date), Goto Last (Jump to 5 sec. ~ 5 min. before the record end).
- Various Display Modes: Spot, Quad (8 patterns), Spot Sequence, Quad Sequence.
- 8 Quad screens are fully programmable. Any of the 32 cameras can be assigned to any area of the Quad screens.
- Filtered Search: Time & Date, Event Type, Camera number, Text
- Recorded images can be downloaded to a PC.
- Downloadable viewer software allows playback of images downloaded from the Recorder.
- 2 setup modes available, Quick/Advanced at users' preference.
- 2 built-in network interfaces (10Base-T/100Base-TX) for camera access and client access. Operation by one port is also possible.
- Quick IP Setup for Panasonic i-Pro series network cameras
- Bandwidth control: 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited
- Up to 8 clients can monitor images and control WJ-ND300A simultaneously.
- Image transfer to FTP server: Recorded image upon alarm and/or live image periodically
- Performance measurement function for appropriate recording frame rate setup

- Images recorded on the SD memory card in the i-Pro series cameras can be downloaded to the recorder manually. In addition, recordings upon network failure can be transferred automatically when the recorder is in non-recording status.
- Alarm notification by e-mail.
- User/Host authentication, 4 user levels and User-Camera View/Control partitioning set up for sophisticated user management of up to 32 user registrations.
- Multi-recorder, Multi-site system can be made with optional WV-ASM100 i-Pro Management Software.
- Front panel LCD screen for status display
- HDD capacity is expandable with 4 HDD slots in the main unit and up to 6 WJ-HDE300 optional Extension Units each with 4 HDD slots.
- Disk partitioning for flexible record management: Normal, Event, Copy
- HDD Safety Mode to protect HDDs during the installation of WJ-ND300A
- RAID5 capability with optional WJ-NDB301 RAID5 Board

Standard Accessories

| | | | |
|--------------------------------------|--------|--|---------|
| • CD-ROM* | 1 pc. | • Rack Mount Bracket Fixing Screw ... | 4 pcs. |
| • Installation Guide | 1 pc. | • Hard Disk Drive Fixing Screw (w/sleeve and damper) | 12 pcs. |
| The followings are for installation: | | | |
| • Power Cord (NTSC model) | 1 pc. | * The CD-ROM contains the operating instructions (PDFs) and the setup tools (Panasonic IP setup software, etc.). | |
| • Power Cord (PAL model) | 2 pcs. | | |
| • Rack Mount Bracket | 2 pcs. | | |

Optional Accessories

| | |
|--|---|
| <p>RAID5 Board WJ-NDB301</p>  | <p>Extension Unit WJ-HDE300 (4 HDD slots for optional HDD units)</p>  |
| <p>Power Source : 120 V AC, 60 Hz (NTSC) 220 ~ 240 V AC, 50 Hz (PAL)</p> | |
| <p>Power Consumption: approx. 85 W (including 4 HDDs when installed)</p> | |
| <p>Dimensions : 420 mm (W) x 88 mm (H) x 350 mm (D) (19-9/16" (W) x 3-7/16" (H) x 13-13/16" (D)) (excluding rubber feet and projections)</p> | |
| <p>Weight : 7.2 kg (16 lbs.) (When no HDD exist)</p> | |

Specifications

| TV System | NTSC | PAL |
|---|--|---|
| Supported Cameras | Panasonic i-Pro series Network cameras. (Contact Panasonic for BB series and Axis® cameras) | |
| Supported Image Format | H.264, MPEG-4 (Specific cameras), JPEG, M-JPEG | |
| Supported Image Resolution | 1,280 x 960, 960 x 720, 640 x 480, 320 x 240 (Depending on the camera) | |
| Maximum Number of Cameras | 32 | |
| Recording | Manual recording, Scheduled recording, Emergency recording, External timer recording, Event recording | |
| Pre-alarm Recording | Up to 60 minutes. Dedicated HDD for Pre-alarm is required | |
| Scheduled Recording Mode | 4 programs, 6 time zones/day, Independent setup for each day of the week. | |
| Frame Rate/Camera | Up to 30 ips (Depending on the camera and Network) | |
| Camera Control | Pan/Tilt, Zoom, Focus, Brightness, Preset position call and program (up to 256), Auto mode | |
| REC/Playback Control | REC, PLAY, Rev PLAY, Pause, Stop, FF, REW, Prev Record, Next Record, Prev Image, Next Image, A-B Repeat, Goto Date, Goto Last (5 sec. ~ 5 min.), Text display | |
| Search Mode | Search criteria: Time date, Event type, Camera number, Text ON/OFF | |
| Display Mode | Spot/Quad (8 patterns)/Spot Sequence/Quad Sequence (Live, Playback) | |
| Camera Grouping | 8 groups each with 16 characters title | |
| Image Download | Recorded data of selected camera and time range (up to 20 min.) can be downloaded to a PC. Viewer software can be downloaded separately. | |
| SD Memory Data Download | Image data in the SD memory installed in the selected camera can be transferred to the recorder. | |
| Copy | Recorded data of selected cameras and time date range can be copied to the COPY partition. | |
| Camera Title | On the browser, Up to 16 characters | |
| Clock Display | On the browser. Time: 12H/24H, Date: 3 formats | |
| Alarm Control | Reset, Suspend | |
| Digital Zoom | Up to 4 times | |
| Text Attachment | Free comment can be attached for each record and reviewed at later time. Up to 200 characters | |
| System Log | Operator access (100), Network error (1,000), Error (100), Event (750) | |
| Time Synchronization | Terminal (Master or Slave), NTP (Client) | |
| Summer Time | User definable (using menu setup) | |
| GUI / System Setup Language | English, French, Italian, Spanish, German, Russian, Chinese, Japanese | |
| Supported OS and Browser Combination | Microsoft® Windows® 7 Professional 64 bit/32 bit & Windows® Internet Explorer® 8.0 32 bit, Microsoft® Windows Vista® 32 bit SP1 & Windows® Internet Explorer® 7.0, Microsoft® Windows® XP Home/Professional SP3 & Windows® Internet Explorer® 6.0 The language of OS must be the same as selected GUI language. | |
| Required PC | JPEG/MPEG-4 H.264 | CPU: Intel® Pentium® 4 3.0 GHz or faster, RAM: 1 GB or more, VRAM: 128 MB or more (Min. 64 MB), Microsoft® DirectX® 9.0c or later 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/Event | Alarm Source | 16x Terminal inputs, 16x Camera alarms, Panasonic Alarm Protocol |
| | Event Mode | Alarm/Activity/OFF |
| | Alarm Action | Alarm recording, E-mail notification, Alarm message, Camera positioning, FTP image transfer, Terminal output, Panasonic alarm protocol output, Buzzer, Indicator |
| | Alarm Control | Reset, Suspend |
| | Event Log | 750 |
| Network | Network Interface | Camera port: 10Base-T/100Base-TX (RJ-45) Client port: 10Base-T/100Base-TX (RJ-45) Maintenance port: 10Base-T (RJ-45) |
| | Maximum Band Width | Total 97 Mbps |
| | Bandwidth Control (Client Port) | 32 k / 64 k / 128 k / 256 k / 512 k / 1,024 k / 2 M / 5 M / 10 M (bps) and unlimited |
| | Supported Protocol | TCP/IP, UDP/IP, HTTP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, RTP |
| | E-mail | Upon Alarm or Warning |
| | No. of Client at a Time | 8 |
| | User Registration | Up to 32 users |
| | User Level | 4 Levels (Programmable) |
| | Partitioning | User - Camera (View only, View & Control, No Access) |
| | Security Method | User authentication (ID and Password), Host authentication (IP address), Alteration detection |
| External Interface | Alarm Connector (25pin D-sub) | Alarm |
| | Alarm/Control Connector (25pin D-sub) | Alarm output 8 ~ 16 ² , Alarm suspension input ¹ , Alarm reset input ¹ , Emergency recording input ¹ , Power outage detection input ¹ , External recording mode switching ¹ , Power outage recovery completion output ³ , Time adjustment input/output ⁴ , +5 V output ⁵ |
| | Error/Warning | Network error output ² , Available disk space warning output ² , HDD error output ² , Camera error output ² , Error output ² |
| | External Storage | High-speed serial interface 480 Mbps (theoretical value) for WJ-HDE300 Extension Unit RS-232C For servicing purpose only |
| HDD | Type | 1x 3.5 inch 250 GB HDD (Factory default), Up to 4x 2 TB HDDs can be installed. (Contact Panasonic for detail) |
| | Maximum Capacity | 56 TB (with 6x WJ-HDE300 Extension Units, 4x 2 TB HDDs installed in each unit) |
| | RAID | RAID5 supported (with WJ-NDB301 RAID5 Board) |
| | Partitioning | Normal/Event/Copy |
| Viewer Software | Playback Control | Play, Rev Play, Pause, FF, REW, Prev Record, Next Record, Prev Image, Next Image |
| | Additional Functions | Alteration detection, Save as JPEG, Two times zoom, Print |
| | Supported OS, Language | Same as browser GUI, Language of the software will be English |
| Admin Software | Supported OS, Language | Same as browser GUI, Language of the software will be English |
| Quick IP Setup Software | Supported OS, Language | Same as browser GUI, Language of the software will be English |

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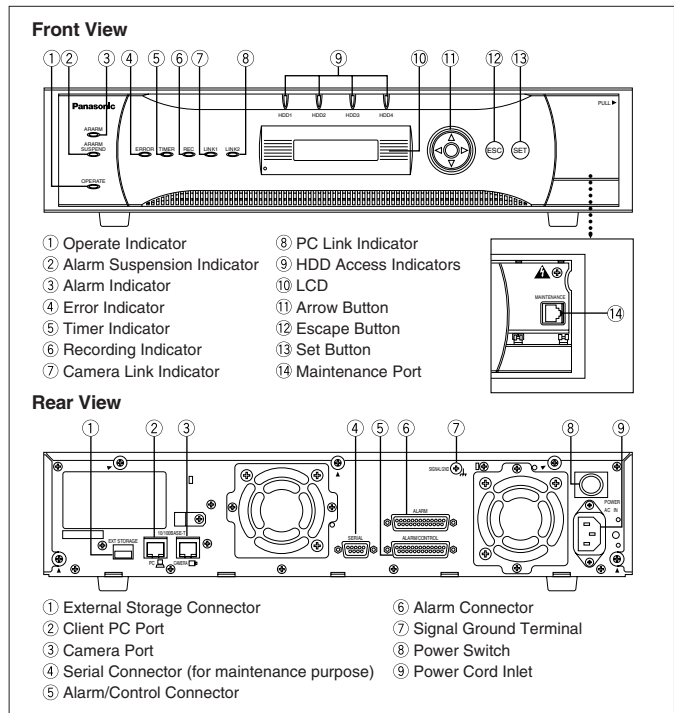
Important

– 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.

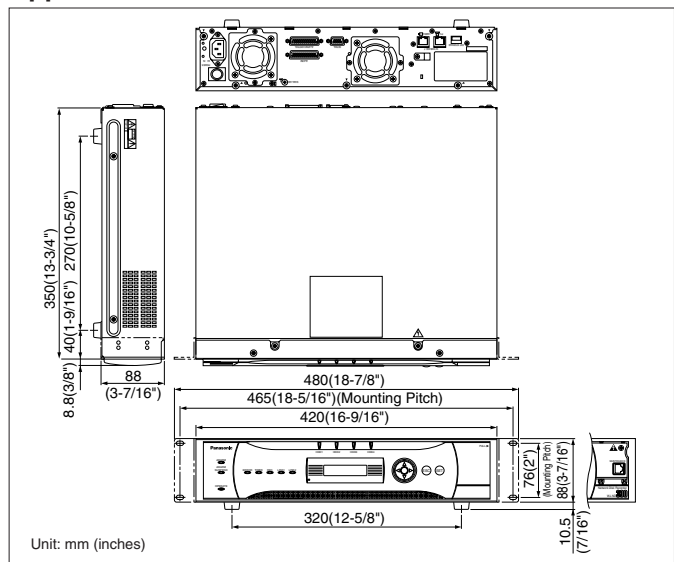
| TV System | NTSC | PAL |
|--------------------------------------|--|--|
| General Specifications | Safety/EMC Standard UL (6500), FCC (Part15 ClassA), C-UL (E60065), DOC (ICES003 ClassA) | CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558) |
| Power Source | 120 V AC, 60 Hz | 220 ~ 240 V AC, 50 Hz |
| Power Consumption | approx. 85 W | |
| Ambient Operating Temperature | +5 °C ~ +45 °C (41 °F ~ 113 °F) | |
| Ambient Operating Humidity | 5 % ~ 90 % (without condensation) | |
| Maximum Operating Altitude | 2,000 m (6,500 feet) above sea level | |
| Dimensions | 420 mm (W) x 88 mm (H) x 350 mm (D) (16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)) (excluding rubber feet and projections) | |
| Weight | 8.3 kg (18.3 lbs.) | |

*1: Non-voltage make contact, +5 V pull-up 150 Ω *2: Open collector output, 24 V max., -100 mA
*3: High (+5 V ~ +12 V, 6.3 mA maximum) *4: 52 kΩ, 5 V pull-up, -100 mA / make contact *5: 200 mA at maximum

Part Names and Functions



Appearance



- 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.
- All product pictures are NTSC models.

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