TURBO-RAID System Recorder

H.265/H.264 high-throughput and scalable embedded recorder featuring integrated GUI and robust embedded IP security enabling a secure end-to-end PC-less surveillance solution for mission-critical applications.

Support full data encryption streaming recording for all i-PRO Extreme cameras which comply to FIPS 140-2 Level 1 standards to keep your video secured from spoofing and snooping activities.

Secure high bandwidth recording
- 64 ch. expandable to 128 ch. camera input. Support H.265 / H.264 mixed recordings.
- 640 Mbps total throughput (including 384 Mbps recording bandwidth)
- Symantec device certificates pre-installed

PC-less non VMS surveillance solution
- No camera license fees, no annual license updates required
- Built-in GUI and Dual HDMI (4K/FHD) outputs
- Automatic camera configuration
- Sub-stream recording for mobile access and low bandwidth system environments

Scalable storage
- (9) integrated drive-bays RAID 5/6
- External storage expansion up to 324 TB

High reliability and redundancy
- Dynamic HDD power management increases HDD life
- Redundant fail-over using 2nd recorder to enable seamless mission-critical recording*
  * Available after version upgrade
- TURBO-RAID for quick RAID recovery without sacrificing recording bandwidth and performance

Applications
- Public safety (City / Road / Highway / Port)
- Transportation (Airport / Train / Subway)
- Bank / Retail
- Hospital / Education
- Casino / Stadium
- Factory
Specifications

Supported Camera
- Panasonic i-PRO series Network camera, ONVIF N7 conformance camera and encoder
-Compatible vendor

Supported Image Format
- H.264(MPEG4)/AVC, H.265 (HEVC)

Supported Image Resolution
- 640x480, 320x240, 1280x720, 1920x1080, 4096x2160
- *4:3 [640x480, 16:9 [1280x720, 1920x1080, 4096x2160]]

Audio Output Connector
- 2x 10BASE-T / 100BASE-TX / 1000BASE-T (RJ45)

Input / Output
- Monitor (HDMI) Connector
  - [Main monitor]
  - Monitor 6 at 1920x1080p / 60Hz, 1920x1080p / 50Hz, 1920x1080p / 50Hz, 720x576p / 50Hz, 720x576p / 50Hz

Supported Operating System
- Windows 7, Windows 8.1, Windows 10 (64-bit)
- Linux (Debian 8.0, 32-bit)

Browser
- Firefox, Chrome

Recording Mode
- Event, Schedule, Emergency
- Pre-alarm recording

Recording Time
- 15 to 20 days

Camera Title
- Up to 64 characters

Digital Zoom
- 2x, 4x

Terminal (Slave), NTP (Server/Client)

Security Method
- User authentication (ID and Password), Host authentication, Alert detection, SSL/TLS

E-mail
- Alert, NVR IP, Warning

Network Time Synchronization
- Terminal (Slave), NTP (Server/Client)

HDD
- 8.89 cm (3.5 inch) Serial ATA HDD, Up to 9x HDDs can be installed.

Maintenance Network Port
- 2x USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device)

USB Storage
- USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device)

Volume Output
- −10 dBv, 600 Ω, 600 Ω, unbalanced ×1 (RCA pin jack)

Maximum Number of Cameras
- MAX. 128 ( Depending on the camera)

Additional Functions
- Time Synchronization
- Terminal (Slave), NTP (Server/Client)
- USB Storage
- USB 3.0 / USB 2.0 memory, USB 3.0 / USB 2.0 connected HDD (except bus powered device)

Other Functions
- User Registration
  - Up to 32 users

No. of Simultaneous Users
- Up to 16

Event Monitoring on Smartphone/Tablet
- [Smartphone/Tablet]
- Panasonic Security Viewer 3.5 or later is required on smartphone/tablet PC.

HDD Type
- WX-NX400K : 8.89 cm (3.5 inch) Serial ATA HDD, Up to 6 HDDs can be installed.

Maximum Capacity
- 8x HDDs installed in each unit

Rapid (Hardware RAID)
- Single, RAID 5, 6, 10

Viewer Software
- Playback Control
- Play, Pause, Forward, Reverse, Full Screen, Player, Full Image, Next Image

Additional Functions
- Partitioning
- HDD error output
- Camera error output
- Alarm Source
- CPU : Intel Core i7-6800, 8 cores, 4.2 GHz or more

Dimensions
- 430 mm (W) x 132 mm (H) x 400 mm (D)

Mass (approx.)
- When HDDs are installed: 42 kg (92 lbs)

Additional Camera Kits
- Number of cameras used in the system can be increased to 96 and 128 (maximum) by purchasing the Additional Camera Kits (WX-HXE400, WX-NXE400 : license for 32 cameras).

Secure Communication Kits
- The Secure Communication Kits are licenses to use the security function of the network disk recorder (WX-NX400K).

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.
- Masses and dimensions are approximate.
- Specifications are subject to change without notice.

Optiona1 Accessories

Hard Disk Extension Unit
- WJ-HXE400
- WJ-HXE400/G

Power Source
- 120 V AC, 50 Hz
- 220 - 240 V AC, 50/60 Hz

Dimensions
- 430 mm (W) x 132 mm (H) x 400 mm (D)

Mass (approx.)
- When HDDs are installed: 33 kg (72 lbs)

Additional Camera Kits
- Number of cameras used in the system can be increased to 96 and 128 (maximum) by purchasing the Additional Camera Kits (WX-HXE400, WX-NXE400 : license for 32 cameras).

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