

NVRmini Specification

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System Diagram



Wireless IP Surveillance Solution

Main Features

- Linux Embedded – Free from PC crash and virus attack
- Server-Client Architecture
- Web-Based Network Appliance Architecture, remote live viewing

- Easy Installation
- Support Point of Sales (POS)
- Manage 4/8/16 IP Cameras
- Up to 2/4 SATA HDD
- Support RAID 0,1,5,5+spare,10
- Support Megapixel Camera and H.264 Compression Format
- Support D1, Real-time Recording
- Intelligent Search for 5 Different Events
- Online GUI Recording Schedule
- I/O Device Integration
- Supported by NUUO CMS
- Remote Client Application program – Connect unlimited NAS servers

Hardware Specifications

Model	NV-2040	NV-4080	NV-4160
Recording Cameras	1~4	1~8	1~16
Number of Drives	2xSATA II	4xSATA II	4xSATA II
RAID Level	RAID 0,1	RAID 0, 1, 5, 10	RAID 0, 1, 5, 10
I/O Interface	1xUSB 2.0 (for UPS)	2xUSB 2.0 (for UPS)	2xUSB 2.0 (for UPS)
LAN Transmission Speed	10/100/1000 Mbps (RJ45)	10/100/1000 Mbps (RJ45)	10/100/1000 Mbps (RJ45)
Voltage	100-240V	100-230V	100-230V
Dimension (device)	92.0 x 145.2 x 213.2 mm	188.2 x 152.5 x 227.6 mm	188.2 x 152.5 x 227.6 mm
Weight (device)	1.0 kg (2.2lbs) without drives	2.5 kg (5.5lbs) without drives	2.5 kg (5.5lbs) without drives
Temperature	Operating: 5°C to 35°C		
Humidity	Operating: 10%-85%		

Software Specifications

- **Camera Configuration**
 - Camera Settings – Camera name, IP address, port, username, password, protocol, vendor, model
 - UPnP Search
 - Camera Parameter – Video format, frame rate, quality, resolution, enable audio, go to camera interface
 - Camera Status – Conn. Status, Rec. status, frame rate, bit rate
- **Recording and Schedule**
 - Video Compression – H.264, M-JPEG, MPEG4, MxPEG
 - NV-2040 Recording Performance – D1, 30fps; 1.2M, 12fps(M-JPEG) per channel
 - NV-4080 Recording Performance – D1, 30fps; 1.2M, 12fps(M-JPEG) per channel
 - NV-4160 Recording Performance – Total bitrate: 22Mbps
 - Maximum Recording Resolution – 8 Mega-pixel
 - Audio & video recording in synchronization
 - Auto recycling when storage disk is 2% remained / Keep n days video
 - Recording Mode – Continuous record, record by schedule, manual record, event trigger record, digital input trigger record.
 - Recording Schedule – Daily and weekly; copy schedule to other channel
 - Recording File Format – DAT
- **Live View**
 - Display Maximum 4/8/16 channels
 - Camera List
 - Camera Status
 - I/O Status
 - I/O Control
 - Grip Type – 1/4/9/16/fullscreen
 - Snapshot
 - PTZ Control
 - PTZ Preset/Go – Save the definition of PTZ camera lens as a preset point and allow cameras quickly move to the location.
 - Digital Zoom – Zoom in, zoom out
 - Video Control – Play, stop, drop
 - Audio Enable/Disable

- Live View Setting – OSD, enable playing sound on event, POS OSD
- **Playback & Search**
 - Playback Maximum 4/8/4 channels
 - Grip Type – 1/4/9/fullscreen
 - Time Bar
 - Que in and Que out
 - Video Control – Play, stop, pause, forward, backward, next, previous
 - Digital zoom in for specific area
 - Speed up and Speed down
 - Audio Control
 - Video Enhancement – Visibility, sharpen, brightness, contrast, grey scale
 - Export video to “AVI” and “ASF” file
 - Export single frame to “BMP, JPEG” file and print out
 - Print
 - Back up video by burning to disc and into hard disk
 - Intelligent Search
 - General Motion
 - Foreign Object
 - Missing Object
 - Loss Focus
 - Camera Occlusion
 - Easily search the period of recording data and unusual event by clicking the button: the most efficient way to get the recording information.
 - POS Search – Keyword, search within result
- **Event & Action**
 - 3 Camera Events and 3 System Events
 - Camera Events:
 - Connect Lost
 - Motion from Camera
 - Camera Input
 - System Event:
 - Disk Space Exhausted
 - Unable to access FTP (Auto Backup)
 - Backup unfinished (Auto Backup)
 - Immediate Reaction for Event Detection:
 - Camera Output
 - E-mail
 - CMS
 - Daily System Report through E-mail – System information, HDD status, Disk status
- **RAID & File System**
 - RAID – 0,1,5,5+spare,10
 - Online RAID Capacity Expansion
 - Online RAID Level Migration
 - HDD S.M.A.R.T
 - 1.5 TB HDD Support
 - Hot Swap
 - Auto Backup – Automatically backup the recorded video of the previous date to FTP
- **POS**
 - Live View – Live view the transactions and image
 - Record and Playback – Record and search every transaction of ATM and perform validity checks
 - POS Search – Keyword, search within result

- **Remote Server and Control**
 - Remote Live Viewer by client application program – Display maximum 16 channels
 - Remote Playback System by client application program – Playback maximum 16 channels
 - Remote Backup System by client program – Backup data on hard disk/CDROM; delete data
- **Others**
 - Privilege of Remote User – Administrator, power user, user, guest user
 - Log System – Hardware log, NVR log, NVR Event log
 - Save/load configuration
 - Support APC UPS – Smart-UPS 750, Back-UPS ES
 - Language Support – English, Japanese, Traditional Chinese, Spanish, Deutsch, French, Italian, Russian, Czech, Korean, Polish

IP Camera Brand(s) Supported

