

NUUO NAS 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 management (Recommend on IE7 or above)

- Easy installation
- Manage 4/8/16 IP cameras
- Online GUI recording schedule
- RAID 0,1,5,5+spare and 10, prevention of data loss
- Support 21 brands of IP cameras and 600 models
- Support megapixel camera and H.264 compression format
- Support D1, real-time and audio recording
- Up to 128 channels live display on multiple monitors
- Playback system with 5 intelligent search
- Support Point of Sale (POS)
- Up to 2/4 SATA HDD bays
- Recording without PC turning on
- Camera I/O integration
- Supported by NUUO Central Management System

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
Power Consumption	60W ¹	78W ²	78W ³
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 (±5°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; Total bitrate: 20Mbps
 - NV-4080 Recording Performance – D1, 30fps; 1.2M, 12fps(M-JPEG) per channel; Total bitrate: 30Mbps
 - NV-4160 Recording Performance – D1, 15fps; Total bitrate: 22Mbps
 - Maximum Recording Resolution – 8 Mega-pixel (for Arecont cameras)
 - 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

¹ 60 W is the maximum power consumption; 39W is 2bays with 250GB disk array

² 78 W is 4 bays with 450GB disk array

³ 78 W is 4 bays with 450GB disk array

• Live View

- Display Maximum 4/8/16 channels
- Camera List
- Camera Status
- I/O Status
- I/O Control
- Layout – 1 / 4 / 6 / 9 / 10 / 13 / 16 / NxN / 10+1 / 16+1 / fullscreen
- Multiple view – Duplicate channels for the same camera
- Auto scan
- 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 – General, OSD, POS OSD, monitor display, notification, enable playing sound on event

• Playback & Search

- Playback Maximum 4/8/4 channels
- Layout – 1/4/9/fullscreen
- Time Bar
- Que in and Que out
- Video Control – Play, stop, pause, forward, backward, next, previous
- PTZ function
 - Digital zoom in for specific area
 - Patrol
 - Focus
 - Joystick support
- 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
- Show event log on the time line of video record, easy to search video with events
- POS Search – Keyword, search within result

• Event & Action

- 3 Camera Events and 4 System Events
- Camera Events:
 - Connect Lost
 - Motion from Camera
 - Camera Input
- System Event:
 - Abnormal disk status
 - Unable to access FTP (Auto Backup)
 - Backup unfinished (Auto Backup)

- Power-on Notification
- 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
 - 1TB HDD Support
 - Hot Swap
 - Auto Backup – Automatically backup the recorded video of the date before to FTP server

- **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 128 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
 - Verification Tool – Support digital watermark to prevent recorded video files/snapshots from being tampered

- **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, Smart-UPS 1500, Smart-UPS 3000, Back-UPS 500 ES
 - Language Support – English, Japanese, Traditional Chinese, Spanish, Deutsch, French, Italian, Russian, Czech, Korean, Polish, Dutch, Swedish, Portuguese (Brazil)

IP Camera Brand(s) Supported

