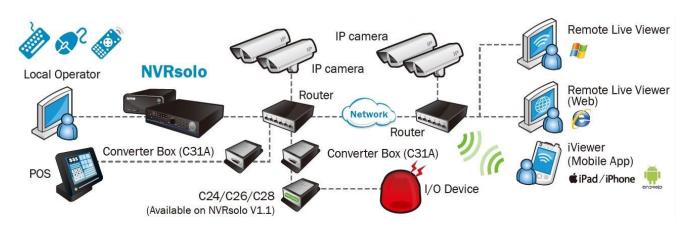


NUUO Version 2.0.0 release date 2014.03

NUUO NVRsolo Specification





Main Features

- Linux embedded safer solution against PC crashes and virus attacks
- One-click setup for more than 80 brands of IP cameras
- ezNUUO free from router settings for web/ mobile viewing
- Point of Sale (POS)1
- **Alarm source of NUUO Central Management System**
- RAID $0,1,5,10 \text{ s}^2$
- Support megapixel cameras and H.264 compression format
- Support camera multi-stream setting³

POS device configuration is only available in web.

NS-1040/NS-1080 support RAID 0, 1. NS-8065 supports RAID 0,1,5 and 10.



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- Support camera two-way audio⁴
- Support camera snapshot⁵
- Remote I/O solution and camera I/O integration
- Real-time digital output, Email alert and push notification on mobile
- · Digital watermark
- · NTP server synchronization
- Compatible with touch panel⁶
- Support HDD SMART self-test
- Support 90 brands of IP cameras and 2329 models (with free monthly update)

Remote Client Application

- Support Multi-Stream for remote live view bandwidth control (Original / 500 kbps⁷ / 100 kbps)
- Support mobile client for iPhone / iPad / Android⁸
- · Up to 128 CH remote live view with multiple monitors

Web

- · Web-based configuration, live viewer, playback (Recommend on IE 8, 9, 10, Mac Safari and Windows Chrome)
- · Online GUI recording schedule
- Panorama 360° PTZ (ImmerVision and VIVOTEK fisheye)
- Generic dewarp (fisheve)
- Digital PTZ and multi-view
- · Support joystick for easier camera control
- · Playback with 5 types of intelligent event search
- · E-map with indicator
- · Auto port-forwarding

Specifications					
Model	NS-1040	NS-1080	NS-8060	NS-8065	
Maximum Numbers of					
Licenses	8 <mark>9</mark>	8	16	5 ¹⁰	
(Recording/Playback)					
Based License	4	8		6	
Video Output		HDMI, VGA			
Output Resolution	1920x1080, 1280x1024, 1280x720, 1024x768				
Decoding Capacity	120fps @1080p or 240fps @720p				
(H.264)	(no resolution limitation on single channel) ¹¹				
Decoding Capacity	120fps @1080p or 240fps @720p				
(MPEG4)	(Up to 1920x1080 ¹² per channel)				
Decoding Capacity	15fps @720p				
(MJPEG)	(Up to 2560x1600 ¹³ per channel)				
Throughput	60Mbps 80Mbps		1bps		
Number of Drives	1 x 3.5" SATA II / 2 x 2.5" SATA II		8 x 3.5" SATA II		
External Storage	1 x eSATA 1 x eSATA			eSATA	
Max Storage Per Drive	4	4TB 4TB			
RAID Level		0,1	Single RAID 0		
RAM	DDR3	DDR3 2GB DDR3 2GB			

³ DP 3.1 or above. Please check the supported camera spec list on website.

⁴ DP 3.1 or above. Please check the supported camera spec list on website.

⁵ DP 3.2 or above. Please check the supported camera spec list on website.

⁶ Acer T232HL and ViewSonic TD2220

DP 2.16 or above; the low profile of cameras integrated before 2.16 is 300kbps.

⁸ Please check the supported camera spec list on website. Besides, to use this feature, you have to enable 2nd stream function on setting page first.

NS-1040 can support up to 8 cameras with license activation (license type: 1/2/4ch)

NS-8060/NS-8065 can support up to 16 cameras with license activation (license type: 1/2/4/6/8/10ch)

¹¹ The total capacity is around: max 8ch 5M cameras and others are 2M cameras; max 6ch 8M cameras and others are 2M cameras

The width/length of 2 megapixels is limited to 1920x1080. The local display won't work if either one side is over the limit.

The width/length of 4 megapixels is limited to 2560x1600. The local display won't work if either one side is over the lim2./6



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On-Box I/O	I/O Interface	5 x USB 2.0 (for keyboard, mouse, UPS, USB 4 x USB 2.0 (for keyboard, mouse, UPS, US					
LAN Transmission Speed Voltage DC 12V 4A AC 100V~240V, 3.5A~1.5A, 60-50Hz Power Consumption Device Dimension (HXWX) Device Weight (Without Drive) Humidity (Operating) ACTI Arecont AATTK ARM ASONI ARCONUM AXX 45W ARX 45W B8.5 x 438 x 442 mm 9 kg (19.84lbs) 9 kg (19.84lbs) ACTI ADT Airlive Alphatech Dynamics ARCONUM AXXIS BASLER Bolide BOSCH BOSCH BOILD BOILD BUINARY CENTRY CENTRY CENTRY BUINARY CENTRY BUINARY CENTRY BUINARY CENTRY BUINARY	-)
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Power Consumption				10/100/1	000 Mbp:	5	
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Live View ControlLive view, preset/go, PTZ, remote I/O, snapshot, digital PTZRemote Live View ControlLive view, preset/go, PTZ, remote I/O, snapshot, multi-view, digital PTZ, advanced E-Map, bandwidth monitoringAudio & Video RecordingSynchronized audio and video recordingPOS15Live view, record, playback, and search for every transaction (web only)Auto BackupAutomatically backup the recorded video of the date before to FTP serverIntelligent Search via Web/RemoteGeneral motion, missing object, foreign object, lose focus, camera occlusionRemote Live View ConnectionLive view maximum 64 connections per server at the same timeSupported Languages: 19English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish	Recording Type	Emergency recor					ed record, digital
Remote Live View ControlLive view, preset/go, PTZ, remote I/O, snapshot, multi-view, digital PTZ, advanced E-Map, bandwidth monitoringAudio & Video RecordingSynchronized audio and video recordingPOS15Live view, record, playback, and search for every transaction (web only)Auto BackupAutomatically backup the recorded video of the date before to FTP serverIntelligent Search via Web/RemoteGeneral motion, missing object, foreign object, lose focus, camera occlusionRemote Live View ConnectionLive view maximum 64 connections per server at the same timeSupported Languages: 19English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish	Live View Control	Liv					Z
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POS ¹⁵ Live view, record, playback, and search for every transaction (web only) Auto Backup Automatically backup the recorded video of the date before to FTP server Intelligent Search via Web/Remote Remote Live View Connection Supported Languages: 19 Live view maximum 64 connections per server at the same time English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish	Control						
POS ¹⁵ Live view, record, playback, and search for every transaction (web only) Auto Backup Automatically backup the recorded video of the date before to FTP server Intelligent Search via Web/Remote Remote Live View Connection Supported Languages: 19 Live view maximum 64 connections per server at the same time 16 English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish	Audio & Video						
Automatically backup the recorded video of the date before to FTP server Intelligent Search via Web/Remote Remote Live View Connection Supported Languages: 19 Automatically backup the recorded video of the date before to FTP server General motion, missing object, foreign object, lose focus, camera occlusion Live view maximum 64 connections per server at the same time English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish		Synchronized audio and video recording					
Intelligent Search via Web/RemoteGeneral motion, missing object, foreign object, lose focus, camera occlusionRemote Live View ConnectionLive view maximum 64 connections per server at the same timeSupported Languages: 19English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish		Live view, record, playback, and search for every transaction (web only)					
Web/Remote General motion, missing object, foreign object, lose focus, camera occlusion Remote Live View Connection Live view maximum 64 connections per server at the same time 16 Supported Languages: 19 English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish		Automati	ically backup the re	ecorded v	ideo of th	ne date before to FT	P server
Connection Supported Languages: 19 Live view maximum 64 connections per server at the same time English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish		General motion, missing object, foreign object, lose focus, camera occlusion					
Supported Languages: 19 English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, Turkish		Live view maximum 64 connections per server at the same time ¹⁶					
	Supported		ese (Brazil), Russia	an, Simpli	fied Chin	ese, Traditional Chi	
Remote Client System Minimum Requirement							

¹⁴ Depend on IP cameras.

POS device configuration and search function are available in web only.

¹⁶ Please refer to performance report for more details.



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Model	NS-1040	NS-1080	NS-8060	NS-8065				
OS	Windows	XP (32-bit) / Win7 (32		and 64-bit)				
CPU		Intel Core 2 Duo, 2.6GHz						
RAM		1GB						
LAN Transmission Speed		10/100/1000 Mbps (RJ45)						
<u> </u>		1. Web browser: Int	ernet Explorer 8, 9, 10					
UI			pplication program					
	3.	NUUO iPhone, iPad, A	ndroid mobile live view	ver ¹⁷				
Technical Details								
System, Settin	<u>g, Management</u>	and Integration	<u>1</u>					
remote clients. W	chitecture: Centralize ith this centralized stru ality even when reachi	cture, total camera loa	ding remains at a stabl	e level, thus ensuring				
	Open Platform: Support 2329 IP camera models and video servers (encoders) from 90 brands of major network camera manufacturers.							
support UPnP pro user can manually	One-Click Setup: NVRsolo can automatically search and add IP cameras on the same subnet (camera should support UPnP protocol or should be implemented its brand's search tool ¹⁸). For those unsearchable cameras, user can manually insert it. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.							
	Storage Optimization: NVRsolo supports H.264 compression format which helps increasing the storage efficiency to nearly 600% higher than MJPEG and 150% higher than MPEG4.							
	Friendly GUI Recording Scheduler: Graphical user interface to setup recording schedule featuring unique day mode and week mode.							
camera input; 1 ir alarm responses s	Event & Action: 4 camera events including motion detection (if supported by camera), connection lost and camera input; 1 input event from remote I/O box; 5 system events and daily system report by E-mail; 5 instant alarm responses supporting output, Email, E-map popup on web/remote, push notification on mobile and NUUO CMS alarm system.							
	RAID Level Selection: NS-1040/NS-1080 supports RAID 0 and 1 for maximum capacity or data protection at the HDD level. To use RAID 1, you must insert two 2.5 inch HDDs.							
	Point of Sale (POS): POS transactions received through NUUO POS box or Ethernet (TPC/IP client). POS text overlay on live view video and recordings. All recorded POS transactions are searchable on web/remote playback system.							
	I/O Event Control : With the integration of camera I/O and NUUO I/O Box, system can start recording when input triggered, or trigger output as an event happened.							
administrator, po	Various Authorities of Different Kinds of Users: Web Viewer logins to NVRsolo via 4 different user groups: administrator, power user, user, and guest. Each user group has its own distinctive privilege in system configuration, live view camera and playback records.							
□ Synchronization	with NTP Server: Syr	nchronize time weekly/r	monthly to keep the acc	uracy of recording time.				

event Log for special events; Export and Backup Log for exporting video or video backup action.

Log System: Hardware log keeps track of system operation; NVR log for camera status and user access; NVR

User Friendly: Provide users with hints on local interface and HELP tab on the webpage for quick start tips and

troubleshooting.

Please check the supported camera spec list on website. Besides, to use this feature, you have to enable multi-stream function

Support camera search tools of ACTi, Arecont, and Sony.



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	Auto Power-on: The system shall be able to power-on automatically and keep recording after incident power outage.
Lo	ocal Operation
	Multiple Live View Channel: Up to 8 channels on NS-1040/NS-1080 and up to 16 channels on NS-8060/NS-8065. The display limitations are described on page 2.
	Multiple Playback Channel: Up to 8 channels on NS-1040/NS-1080 and up to 16 channels on NS-8060/NS-8065.
	Monitor Resolution: 1024x768, 1280x720, 1280x1024, 1920x1080.
	Emergency Recording: Click the Emergency Recording button on Live View to active all channels always recording instantly.
	Instant Playback: Play the last few minutes of live videos instantly to investigate recent events.
Re	emote Client Operation
	Multiple Live View Channel: Up to 64 channels of remote connections per unit. Under full loading configuration, 16-channel connections are recommended. Remote Live Viewer client supports 64 channels from multiple servers, and could display up to 128 channels with multiple monitors. In addition, Remote Live Viewer client can access and display live video from any NUUO Mainconsole family servers simultaneously.
	Multiple Playback Channel: In web playback client/NUUO Playback System, up to 8 channels on NS-1040/NS-1080 and up to 16 channels on NS-8060/NS-8065.
	Monitor Resolution: 800x600, 1024x768, 1200x900, 1280x1024, 1366x768, 1440x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200.
	Multi-View: NVRsolo can duplicate the same live view video onto multiple channels and digitally zoom in to see the details of different spots on cloned channels without losing the original live view video or using extra camera licenses.
	E-Map: Show device indicator on map for easy finding and tracking device location. Furthermore, pop up map to point out the device when an event occurred.
	Stream Profile: Live display multiple camera streams with lower bit rate, while still recording at highest possible quality.
	Multiple Mobile Clients: Support mobile live viewer for iPhone, iPad, and Android. ²⁰
<u>PI</u>	ayback, Search, Export and Secure Data
	Post-Recording Processing (remote): Intelligent search, digital PTZ and video enhancement tool.
	Intelligent Search (remote): Search recorded video for 5 events including general motion, foreign object, missing object, loss focus and camera occlusion.
	Video Enhancement (remote): Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.

Please refer to performance report for more details.

Please refer to performance report for more usuals.

Please check the supported camera spec list on website. Besides, to use this feature, you have to enable 2nd stream function on 5 / 6



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		Evidence Export: Snapshot and print video image in BMP/ JPEG; backup video in DAT; save video in ASF/AVI. The action exporting video or video backup will be recorded in NVRsolo's log system.
		Alarm Notification: Notify users on camera and system event by sound, digital output, push notification, E-mail and NUUO CMS alert.
		Auto Backup: Automatically backup the recorded video of previous dates to a designated FTP server.
		Manual Backup: Manually backup or delete the recordings from any NVRsolo.
		Watermark: Protect original recordings from alternation with NUUO watermark verification tool.
	<u>Ex</u>	<u>xtended Service</u>
		NUUO Central Management System (CMS): Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all NUUO Mainconsole family servers.
•	<u>Ex</u>	<u>xternal Device</u>
		POS Box (from serial port to Ethernet): NUUO Point of Sales system works on NVRsolo by overlaying the transaction text from cash register or ATM machines onto live video and recordings. All recorded POS transactions are searchable on web/remote playback system.
		Remote I/O Box: I/O signals of NUUO I/O Box are converted to Ethernet through converter, which enables NVRsolo to do more sophisticated application, such as starting recording when input triggered, triggering output as an event happened, and much more.
		Panorama 360° PTZ: Several modes are supported on web/remote live view and playback system. Generic dewarp: Original mode, Rectilinear mode, Quad mode and Dual-view panorama mode. ImmerVision ²¹ : Original mode, PTZ mode, Quad mode and Perimeter mode. Vivotek: Original mode, Rectilinear mode, Full-view panorama mode, and Dual-view panorama mode.
		APC UPS: Continues to feed the NVRsolo power in an event of power outage.
		Joystick: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in web/remote live view. Preset points and patrol functions are also available on many camera models.