

## DS-96000NI-I24 SERIES NVR



### **Features and Functions**

#### **Professional and Reliable**

- New logical and visualized GUI design.
- · Adopts professional embedded hardware and software, and pioneering dual-OS design to ensure the reliability of system running.
- Supports redundant power supply to improve the system stability.
- Supports HDD hot swap with RAID0, RAID1, RAID5, RAID 6, and RAID10 storage scheme configurable.
- Either normal or hot spare working mode is configurable to constitute an N+1 hot spare system.

#### **Video Input and Transmission**

- Up to 128/256 IP cameras can be connected.
- Supports live view, storage, and playback of the connected camera at up to 12 megapixels resolution.
- H.265+ compression effectively reduces the storage space by up to 75%.
- 4 self-adaptive 10M/100M/1000M network interfaces.
- Adopt stream over TLS encryption technology (enhanced SDK service and RTP over HTTPS protocol)
- Connectable to the third-party network cameras like ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO.

#### **HD Output**

- Simultaneous HDMI 1/VGA output as the main output and the HDMI 2 works as the auxiliary output.
- HDMI and VGA1 simultaneous outputs by default. Asynchronous outputs configurable.
- Video outputs at up to 4K (4096×2160) resolution.
- Supports decoding up to 20 channels at 1080p resolution.

#### **HD Storage**

- Up to 24 SATA interfaces and 1 eSATA interface provided for HDD connection.
- 10 TB capacity for each HDD.
- HDD health monitoring.
- Supports HDD quota and group modes; different capacity can be assigned to different channels.
- Normal/Important/Custom video playback.

#### **Various Applications**

- Centralized management of IP cameras is supported, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc.
- Connectable to smart IP cameras from Hikvision and the recording, playing back, and backing up of VCA alarms can be realized.
- VCA detection alarm is supported.
- VCA search for facial detection, behavior analysis, people counting and heat map.
- Supports starting record with one key.
- Realizes instant playback for assigned channel during multi-channel display mode.
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency.



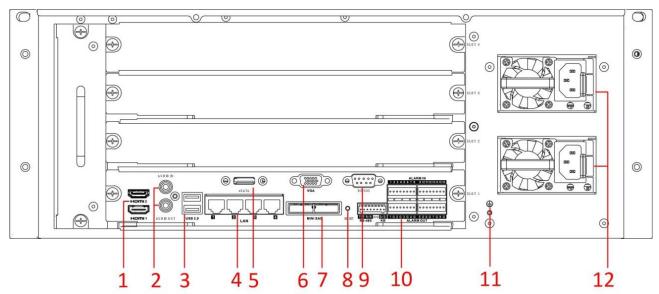


# **Specifications**

Video & Audio input         IP video input         128-ch         256-ch         256-ch           Audio input incoming/outgoing andwidth incoming/outgoing bandwidth inc	Model		DS-96128NI-I24	DS-96256NI-124	
	Video &	IP video input	128-ch	256-ch	
Incoming/outgoing   Incoming/outgoing   Incoming/outgoing   Incoming/outgoing bandwidth (RAID mode)   ITLS outgoing bandwidth   128 Mbps, or 64 Mbps (when RAID is enabled)     ITLS outgoing bandwidth   128 Mbps, or 64 Mbps (when RAID is enabled)     ITLS outgoing bandwidth	Audio input		576 Mbps/512 Mbps	768 Mbps/768 Mbps	
Bandwidth (RAID mode)   128 Mbps, or 64 Mbps (when RAID is enabled)   171 Soutgoing bandwidth   128 Mbps, or 64 Mbps (when RAID is enabled)   172 Protocol   172 Protoco			576 Mbps/512 Mbps	768 Mbps/768 Mbps	
Protocol					
Video & Audio output         HDMI output         Two independent HDMI outputs of 4K resolution. Resolution: 4K (4096 × 2160), 4K (3840 × 2160)/30hz, 2K (2560 × 1440)/60hz, 1080p (1920 × 1080)/60hz, UXGA (1020 × 720)/60hz, UXGA (1020 × 720)/60hz, UXGA (1020 × 768)/60hz           Video & Decoding format         1-ch. Resolution: 1080p (1920 × 1080)/60hz, UXGA (1020 × 768)/60hz           Video & Decoding format         H.265, H.265+, H.264+, H.264+, MPEG4, MIPEG (for Hikvision IP camera only)           Video & Georgia         Up to 16 channels           Capability         3-ch@12 MP (30fps), 5-ch@8 MP (30fps), 6-ch@6 MP (30fps), 10-ch@4 MP (30fps), 20-ch@1080p (30 fps)           HDD         Titlefface         24 SATA interfaces supporting hot-plug           Capacity         Up to 10 T8 for each HDD           Storage extension         1 × eSATA interfaces supporting hot-plug           RAID         RAID Type         RAIDO, RAID1, RAID5, RAID 6, and RAID10           Network management         Protocol         IPv6, HTTPS, UPRP, SMMP, MTP, SADP, SMTP, NFS, ISCSI, PPP0E, DDNS           External interface         4, R45 10M/100M/1000M self-adaptive Ethernet interface           External interface         Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0           Betternal interface         Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0           Betternal interface         Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0           General         Power supply		TLS outgoing bandwidth	128 Mbps, or 64 Mbps (when RAID is enabled)		
Video & Audio output		Protocol	HIKVISION, ACTI, ARECONT, AXIS, BOSCH, BRICKCOM, CANON, HUNT, ONVIF (Version 2.5),		
Audio output         2160)/30Hz, 2K (2560 × 1440)/60Hz, 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1600 × 1200)/60Hz, SKGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, UXGA (1024 × 768)/60Hz           Video & Audio output         1-ch. RcA (2.0 Vp-p. 1 KC)           Video & Suding format         H.265, H.265+, H.264 + H.264+, MPEG4, MJPEG (for Hikvision IP camera only)           Video resolution         12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/ACIF/DCIF/2CIF/CIF/CIF/CIF/CIF/CIF/CIF/CIF/CIF/CIF/			PANASONIC, PELCO, RTSP, SAMSUNG, SONY, VIVOTEK, ZAVIO		
SXGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768)/60Hz	Video &	HDMI output	Two independent HDMI outputs of 4K resolution. Resolution: 4K (4096 × 2160), 4K (3840 ×		
VGA output	Audio output		2160)/30Hz, 2K (2560 × 1440)/60Hz, 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz,		
1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768)/60Hz			SXGA (1280 × 1024)/60Hz, 720p (1280 × 720	0)/60Hz, XGA (1024 × 768)/60Hz	
LCD output (optional)		VGA output			
Audio output			1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (	1024 × 768)/60Hz	
Video & Audio Audio decoding         Decoding format         H.265, H.265+, H.264, H.264+, MPEG4, MJPEG (for Hikvision IP camera only)           Video resolution         12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF           Synchronous playback         Up to 16 channels           Capability         3-ch@12 MP (30fps), 5-ch@8 MP (30fps), 6-ch@6 MP (30fps), 10-ch@4 MP (30fps), 20-ch@1080p (30 fps)           Interface         24 SATA interfaces supporting hot-plug           Capacity         Up to 10 TB for each HDD           Storage extension         1 × eSATA interface, 2 × mini SAS interface (optional)           RAID         RAID Type         RAIDO, RAID1, RAID5, RAID 6, and RAID10           Network         Protocol         IPv6, HTTPS, UPNP, SNMP, NTP, SADP, SMTP, NFS, ISCSI, PPPOE, DDNS           Memanagement         Two-way audio input         1-ch, RCA (2.0 Vp-p, 1 KΩ)           Serial port         RS-232; RS-485; Keyboard           External interface         USB interface         Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0           Alarm input/output         16/8           Extension board         One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.           General         Working temperature         0 °C to +50 °C (32 °F to 122 °F) <th< td=""><td></td><td>LCD output (optional)</td><td colspan="3">One 7 inch LCD</td></th<>		LCD output (optional)	One 7 inch LCD		
Audio decoding    Video resolution   12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		Audio output	1-ch. RCA (2.0 Vp-p, 1 KΩ)		
Synchronous playback   Up to 16 channels	Video &	Decoding format	H.265, H.265+, H.264, H.264+, MPEG4, MJPEG (for Hikvision IP camera only)		
Capability S-ch@12 MP (30fps), 5-ch@8 MP (30fps), 6-ch@6 MP (30fps), 10-ch@4 MP (30fps), 20-ch@1080p (30 fps)  Interface 24 SATA interfaces supporting hot-plug Capacity Up to 10 TB for each HDD Storage extension 1 × eSATA interface, 2 × mini SAS interface (optional)  RAID RAID Network management Protocol IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, ISCSI, PPPOE, DDNS  Network interface 4, RJ45 10M/100M/1000M self-adaptive Ethernet interface  External interface  Two-way audio input 1-ch, RCA (2.0 Vp-p, 1 KΩ) Serial port RS-232; RS-485; Keyboard USB interface Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0  Alarm input/output 16/8  Extension board (optional) One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  Power supply 100 to 240 VAC, 550W Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD)  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Video resolution	12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/QCIF		
Interface   24 SATA interfaces supporting hot-plug	decoding	Synchronous playback	Up to 16 channels		
Interface   24 SATA interfaces supporting hot-plug		Capability	3-ch@12 MP (30fps), 5-ch@8 MP (30fps), 6-ch@6 MP (30fps), 10-ch@4 MP (30fps),		
ADD   Capacity   Up to 10 TB for each HDD			20-ch@1080p (30 fps)		
Storage extension 1 × eSATA interface, 2 × mini SAS interface (optional)  RAID RAID Type RAIDO, RAID1, RAID5, RAID 6, and RAID10  Network Protocol IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, ISCSI, PPPOE, DDNS  Network interface 4, RJ45 10M/100M/1000M self-adaptive Ethernet interface  Two-way audio input 1-ch, RCA (2.0 Vp-p, 1 KO)  Serial port RS-232; RS-485; Keyboard  USB interface Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0  Alarm input/output 16/8  Extension board One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  Power supply 100 to 240 VAC, 550W  Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD) \$140W  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  Dimension (W × D × H) 447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Interface	24 SATA interfaces supporting hot-plug		
RAIDRAID TypeRAIDD, RAID1, RAID5, RAID 6, and RAID10Network managementProtocolIPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPOE, DDNSNetwork interface4, RJ45 10M/100M/1000M self-adaptive Ethernet interfaceExternal interfaceTwo-way audio input1-ch, RCA (2.0 Vp-p, 1 KΩ)Serial portRS-232; RS-485; KeyboardUSB interfaceFront Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0Alarm input/output16/8Extension board (optional)One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.GeneralPower supply100 to 240 VAC, 550WFanRedundant dual ball bearing fan; Speed adjustable; Hot-plugConsumption (without HDD)≤ 140WWorking temperature0 °C to + 50 °C (32 °F to 122 °F)Working humidity10% to 90%Dimension (W × D × H)447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	HDD	Capacity	Up to 10 TB for each HDD		
Network management         Protocol         IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS           External interface         Two-way audio input         1-ch, RCA (2.0 Vp-p, 1 KΩ)           Serial port         RS-232; RS-485; Keyboard           USB interface         Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0           Alarm input/output         16/8           Extension board (optional)         One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.           General         Power supply         100 to 240 VAC, 550W           Fan         Redundant dual ball bearing fan; Speed adjustable; Hot-plug           Consumption (without HDD)         ≤ 140W           Working temperature         0 °C to + 50 °C (32 °F to 122 °F)           Working humidity         10% to 90%           Dimension (W × D × H)         447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Storage extension	1 × eSATA interface, 2 × mini SAS interface (optional)		
management       Network interface       4, RI45 10M/100M/1000M self-adaptive Ethernet interface         External interface       Two-way audio input       1-ch, RCA (2.0 Vp-p, 1 KΩ)         Serial port       RS-232; RS-485; Keyboard         USB interface       Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0         Alarm input/output       16/8         Extension board (optional)       One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.         Power supply       100 to 240 VAC, 550W         Fan       Redundant dual ball bearing fan; Speed adjustable; Hot-plug         Consumption (without HDD)       ≤ 140W         Working temperature       0 °C to + 50 °C (32 °F to 122 °F)         Working humidity       10% to 90%         Dimension (W × D × H)       447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	RAID	RAID Type	RAID0, RAID1, RAID5, RAID 6, and RAID10		
Two-way audio input 1-ch, RCA (2.0 Vp-p, 1 KΩ)  Serial port RS-232; RS-485; Keyboard  USB interface Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0  Alarm input/output 16/8  Extension board (optional) One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  Power supply 100 to 240 VAC, 550W  Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD)  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  Dimension (W × D × H)  447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	Network	Protocol	IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS		
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External interface    USB interface   Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0		Two-way audio input			
Interface Alarm input/output  Extension board (optional)  Power supply Fan  Consumption (without HDD)  Working temperature  Working humidity  Dimension (W × D × H)  Alarm input/output  16/8  One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  100 to 240 VAC, 550W  Fan  Redundant dual ball bearing fan; Speed adjustable; Hot-plug  ≤ 140W  Vorking temperature  0 °C to +50 °C (32 °F to 122 °F)  Working humidity  10% to 90%  447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Serial port			
Extension board (optional)  One extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  Power supply 100 to 240 VAC, 550W  Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD)  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  Dimension (W × D × H)  447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	External	USB interface	Front Panel: 1 × USB 2.0; Rear Panel: 2 × USB 3.0		
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Power supply 100 to 240 VAC, 550W  Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD) ≤ 140W  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  Dimension (W × D × H) 447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Extension board			
Fan Redundant dual ball bearing fan; Speed adjustable; Hot-plug  Consumption (without HDD)  Working temperature 0 °C to + 50 °C (32 °F to 122 °F)  Working humidity 10% to 90%  Dimension (W × D × H)  A47 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		(optional)	module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.		
General Consumption (without HDD) $\leq 140W$ Working temperature $0 \text{ °C to} + 50 \text{ °C } (32 \text{ °F to} 122 \text{ °F})$ Working humidity $10\% \text{ to} 90\%$ Dimension (W × D × H) $447 \times 528 \times 172 \text{mm} (17.6 \times 20.8 \times 6.8 \text{ inch})$		Power supply	100 to 240 VAC, 550W		
General			Redundant dual ball bearing fan; Speed adju	ustable; Hot-plug	
Working humidity 10% to 90%  Dimension (W × D × H) 447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)			≤ 140W		
Dimension (W × D × H) 447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	General	Working temperature	0 °C to + 50 °C (32 °F to 122 °F)		
(W × D × H) 447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		Working humidity	10% to 90%		
Weight (without HDD) ≤ 23 kg (50.7 lb)			447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)		
		Weight (without HDD)	≤ 23 kg (50.7 lb)		



## **Physical Interfaces**



No.	Name	No.	Name		
1	HDMI 1/2 Video Output	8	Reset Button		
2	Audio Input	9	RS-232 Interface		
	Audio Output		Alarm Input		
3	USB 3.0	10	Alarm Output		
4	LAN	10	RS-485 Interface		
5	eSATA Interface		Keyboard Interface		
6	VGA Video Output	11	Ground		
7	Mini SAS Interface (Optional)	12	Power Supplies		

### **Available Models**

DS-96128NI-I24; DS-96256NI-I24

Distributed by

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T +1-909-895-0400 sales.usa@hikvision.com

Hikvision Italy T +39-0438-6902 info.it@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com Hikvision Europe T +31-23-5542770 saleseuro@hikvision.com

Hikvision France T +33[0]1-85-330-444 info.fr@hikvision.com

Hikvision Oceania T +61-2-8599-4233 salesau@hikvision.com Hikvision Middle East T +971-4-8816086 salesme@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Hong Kong T +852-2151-1761 Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Poland T +48-22-460-01-50 poland@hikvision.com

Hikvision Canada T+1-909-895-0400 sales.usa@hikvision.com Hikvision India T+91-22-28469900 sales@pramahikvision.com

Hikvision UK T +44-1628-9021-4 support.uk@hikvision.com