

# **DS-96000NI-I16 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.
- Support 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.

#### Storage and Playback

- Up to 16 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, people counting, heat map, etc.
- 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 & Audion   Incoming/outgoing   122 Mbps, '912 Mbps   512 Mbps, '912 Mbps   516 Mbps/512 Mbps   768 Mbps/768 Mbps   168 Mbps/768 Mbps/768 Mbps   168 Mbps/768	Model		DS-96064NI-I16	DS-96128NI-I16	DS-96256NI-I16
Bandwidth   Incoming/outgoing   S12 Mbps/100 Mbps   S76 Mbps/S12 Mbps   768 Mbps/768 Mbps   Bandwidth (RAID mode)   TiS outgoing bandwidth   128 Mbps, or 64 Mbps (when RAID is enabled)	Video & Audio	IP video input	64-ch	128-ch	256-ch
Bandwidth (RAID mode)	input		512 Mbps/512 Mbps	576 Mbps/512 Mbps	768 Mbps/768 Mbps
Protocol   HIKVISION, ACTI, ARECONT, AXIS, BOSCH, BRICKCOM, CANON, HUNT, ONVIF (Version 2.5), PANASONIC, PELCO, RTSP, SAMSUNG, SONY, WYOTEK, ZAWIO			512 Mbps/400 Mbps	576 Mbps/512 Mbps	768 Mbps/768 Mbps
Video & Audio output		TLS outgoing bandwidth	128 Mbps, or 64 Mbps (when RAID is enabled)		
0		Protocol			
MGA output	Video & Audio	HDMI output			
Vida output	output		2160)/30Hz, 2K (2560 × 1440)/60Hz, 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz,		
CDD output (optional)   One 7 inch LCD			SXGA (1280 × 1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768)/60Hz		
LCD output (optional)   One 7 inch LCD		VGA output	1-ch. Resolution: 1080p (1920 × 1080)/60Hz, UXGA (1600 × 1200)/60Hz, SXGA (1280 ×		
Audio output   1-ch. RCA (2.0 Vp-p, 1 KΩ)			1024)/60Hz, 720p (1280 × 720)/60Hz, XGA (1024 × 768)/60Hz		
Decoding format   H.265, H.264, H.264+, MPEG4, MJPEG (for Hikvision IP camera only)		LCD output (optional)	One 7 inch LCD		
decoding According Learning and Company of the Co		Audio output	1-ch. RCA (2.0 Vp-p, 1 KΩ)		
Avg	Video & Audio	Decoding format	H.265, H.265+, H.264, H.264+, MPEG4, MJPEG (for Hikvision IP camera only)		
*: 32 MP and 24 MP is only available for channel 1 to 4 when ultra HD resolution mode is enabled.  Synchronous playback  Up to 16 channels  1-ch@32 MP (8160 × 3616, 30 fps)/5-ch@8 MP(30 fps)/10-ch@4 MP(30 fps)/20-ch@1080p(30 fps)/40-ch@720p(30 fps)  *: The length or width of camera resolution (each track) cannot exceed 4096 pixels.  Interface  Interface  16 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  RAID Type  RAIDO, RAID1, RAID5, RAID 6, and RAID10  Network  Protocol  IPv6, HTTPS, UPPP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPP0E, DDNS  Network interface  Network interface  Alarm input/output  1-ch, RCA (2.0 Vp-p, 1 KΩ)  Serial port  SE-232; RS-485; Keyboard  USB interface  Alarm input/output  16/8  One extension board (optional)  SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.  Note: The optional extension board should be purchased with your device in advance.  Power supply  100 to 240 VAC, 50 to 60Hz, 5 A  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)	decoding	Video resolution	32 MP/24 MP/12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p		
External Interface   Protocol   IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, ISCSI, PPPoE, DDNS   Network management   Ivo-Ros 232; RS-485; Keyboard   USB interface   Front Panel: 2 × USB 2.0; Rear Panel: 2 × USB 3.0   Alarm input/output   16/8   SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs. Note: The optional extension board is supported with four 10M/100M/1000M optical interfaces (1.25 Gbps Fan Redundant dual ball bearing fan; Speed adjustable   Seed Alow (2.10 MP)   100 to 240 VAC, 50 to 60Hz, 5 A   100 me change fan; Speed adjustable   100 me change fan Seed Alow (2.10 MP)   100 to 240 VAC, 50 to 60Hz, 5 A   100 me change fan; Speed adjustable   100 me change fan Seed Alow (2.10 MP)   100 to 240 VAC, 50 to 60Hz, 5 A   100 me change fan; Speed adjustable   100 me change fan Seed Alow (2.10 VP)   100 VP)			/vga/4cif/dcif/2cif/cif/qcif		
Synchronous playback   Up to 16 channels			· ·		
Capability   1-ch@32 MP (8160 × 3616, 30 fps)/5-ch@8 MP(30 fps)/10-ch@4 MP(30 fps)/20-ch@1080p(30 fps)/40-ch@720p(30 fps)     **The length or width of camera resolution (each track) cannot exceed 4096 pixels.    Interface					
fps)/20-ch@1080p(30 fps)/40-ch@720p(30 fps)   *: The length or width of camera resolution (each track) cannot exceed 4096 pixels.    Interface		Synchronous playback	Up to 16 channels		
Interface   16 SATA interfaces supporting hot-plug		Capability	fps)/20-ch@1080p(30 fps)/40-ch@720p(30 fps)		
HDD   Capacity					
Capacity   Up to 10 TB for each HDD					
Storage extension   1 × eSATA interface, 2 × mini SAS interface (optional)	HDD	Interface	16 SATA interfaces supporting hot-plug		
RAID       RAID Type       RAID0, RAID1, RAID5, RAID 6, and RAID10         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: 2 × 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.		Capacity	Up to 10 TB for each HDD		
Network management         Protocol         IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS           External interface         A, RJ45 10M/100M/1000M self-adaptive Ethernet interface           Usa protection 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: 2 × 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. Note: The optional extension board should be purchased with your device in advance.           General         Power supply         100 to 240 VAC, 50 to 60Hz, 5 A           Fan         Redundant dual ball bearing fan; Speed adjustable           Consumption (without HDD)         ≤ 140W		Storage extension	1 × eSATA interface, 2 × mini SAS interface (optional)		
management       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: 2 × USB 2.0; Rear Panel: 2 × USB 3.0         Alarm input/output       16/8         One 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. Note: The optional extension board should be purchased with your device in advance.         Power supply       100 to 240 VAC, 50 to 60Hz, 5 A         Fan       Redundant dual ball bearing fan; Speed adjustable         Consumption (without HDD)       ≤ 140W	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: 2 × USB 2.0; Rear Panel: 2 × USB 3.0  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.  Note: The optional extension board should be purchased with your device in advance.  Power supply 100 to 240 VAC, 50 to 60Hz, 5 A  Fan Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD) ≤ 140W	Network	Protocol	IPv6, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS		
Serial port  RS-232; RS-485; Keyboard  USB interface  Front Panel: 2 × USB 2.0; Rear Panel: 2 × USB 3.0  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.  Note: The optional extension board should be purchased with your device in advance.  Power supply  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)  Serial port  RS-232; RS-485; Keyboard  Front Panel: 2 × USB 3.0  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.  Note: The optional extension board should be purchased with your device in advance.  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)	management	Network interface	4, RJ45 10M/100M/1000M self-adaptive Ethernet interface		
External interface    USB interface		Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)		
External interface  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.  Note: The optional extension board should be purchased with your device in advance.  Power supply  100 to 240 VAC, 50 to 60Hz, 5 A  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)  410 Consumption (without HDD)		Serial port	RS-232; RS-485; Keyboard		
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.  Note: The optional extension board should be purchased with your device in advance.  Power supply  100 to 240 VAC, 50 to 60Hz, 5 A  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)  4100 The optional extension board should be purchased with your device in advance.  Speed adjustable		USB interface	Front Panel: 2 × USB 2.0; Rear Panel: 2 × USB 3.0		
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.  Note: The optional extension board should be purchased with your device in advance.  Power supply  100 to 240 VAC, 50 to 60Hz, 5 A  Fan  Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)  4140W		Alarm input/output	16/8		
Fan Redundant dual ball bearing fan; Speed adjustable  Consumption (without HDD)  Redundant dual ball bearing fan; Speed adjustable			SFP module), eight RS-485 interfaces, and alarm interface of 32 alarm inputs and 16 alarm outputs.		
General Consumption (without ≤ 140W HDD)		Power supply	100 to 240 VAC, 50 to 60Hz, 5 A		
HDD)	General	Fan	Redundant dual ball bearing fan; Speed adjustable		
Working temperature 0 °C to + 50 °C (32 °F to 122 °F)			≤ 140W		
		Working temperature	0 °C to + 50 °C (32 °F to 122 °F)		