

## iDS-96000NXI-I16(B) DeepinMind Series NVR

### Key Feature

- Intelligent analytics based on deep learning algorithm
- Up to 64/128-ch network camera input for iDS-96064/96128NXI-I16(B)
- Up to 512 Mbps incoming and outgoing bandwidth for iDS-96128NXI-I16(B)
- Up to 20-ch@1080p decoding capability
- 16 SATA interfaces (up to 10 TB capacity for each HDD)
- HDD hot swapping with RAID 0/1/5/6/10
- Redundant power supply
- 7-inch LCD touch-screen for iDS-96128NXI-I16(B)
- H.265+/H.265/H.264+/H.264 self-adaptive video formats



### Profession and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt professional embedded hardware (Intel® processor) and software, and pioneering dual-OS design to ensure the reliability of system running.
- Redundant power supply ensures system stability
- ANR (Automatic Network Replenishment) technology enhances storage reliability when network exception occurs

### Video and Storage

- Compatible with third-party network cameras, such as ACTI, Arecont, AXIS, Bosch, Brickcom, Canon, ONVIF, PANASONIC, Pelco, SAMSUNG, SANYO, SONY, Vivotek and ZAVIO
- 16 SATA interfaces (up to 10 TB capacity per HDD), 1 eSATA interface and 2 miniSAS interfaces (for iDS-96128NXI-I16(B)) provided for HDD connection



## Network & Ethernet Access

- 4 self-adaptive 10M/100M/1000M Ethernet interfaces
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- 4 gigabit Ethernet SFP fiber interfaces for iDS-96128NXI-I16(B)

## Live view and Playback

- Up to 20-ch@1080p decoding for live view
- Up to 16-ch synchronous playback at 1080p resolution
- Simultaneous HDMI 1/HDMI 2 output as main output and VGA works as auxiliary output
- Dual 4K (4096 × 2160) HDMI outputs

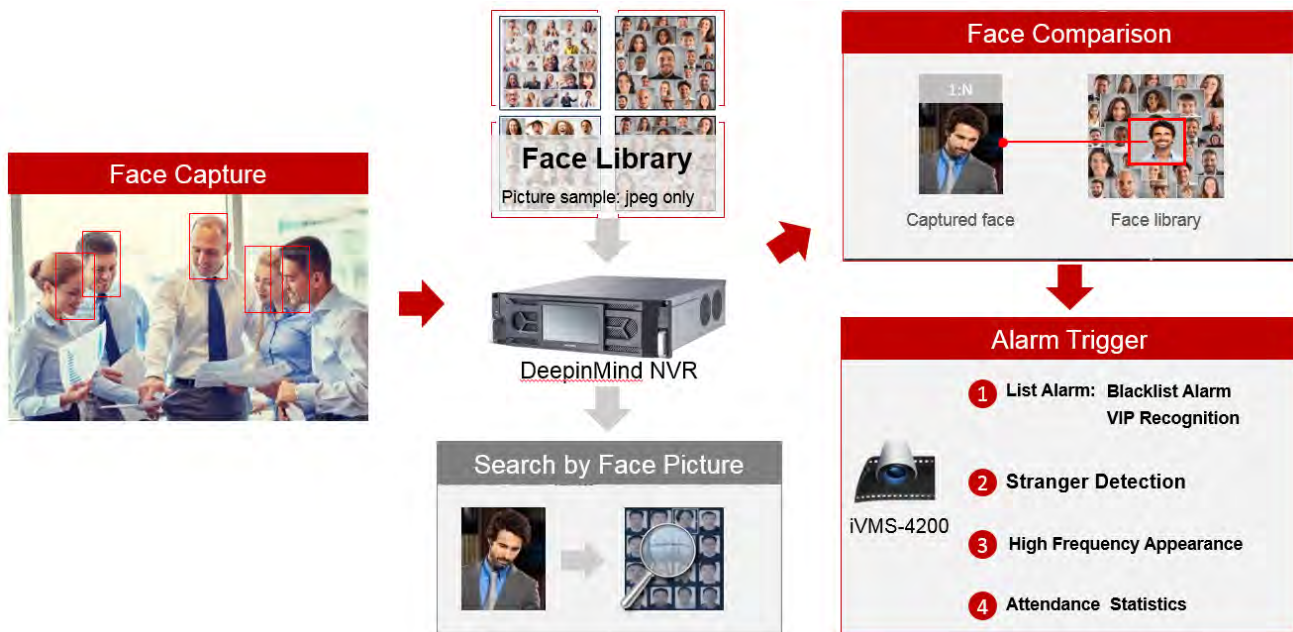
## Application and Management

- Centralized management of network cameras, including configuration, information import/export, real-time information display, two-way audio, upgrade, etc.
- Configurable network camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR, and people counting
- Deep learning based video analytics for false alarm reduction, facial recognition and face picture comparison
- VCA search for facial detection, false alarm reduction, people counting and heat map

## Typical Application

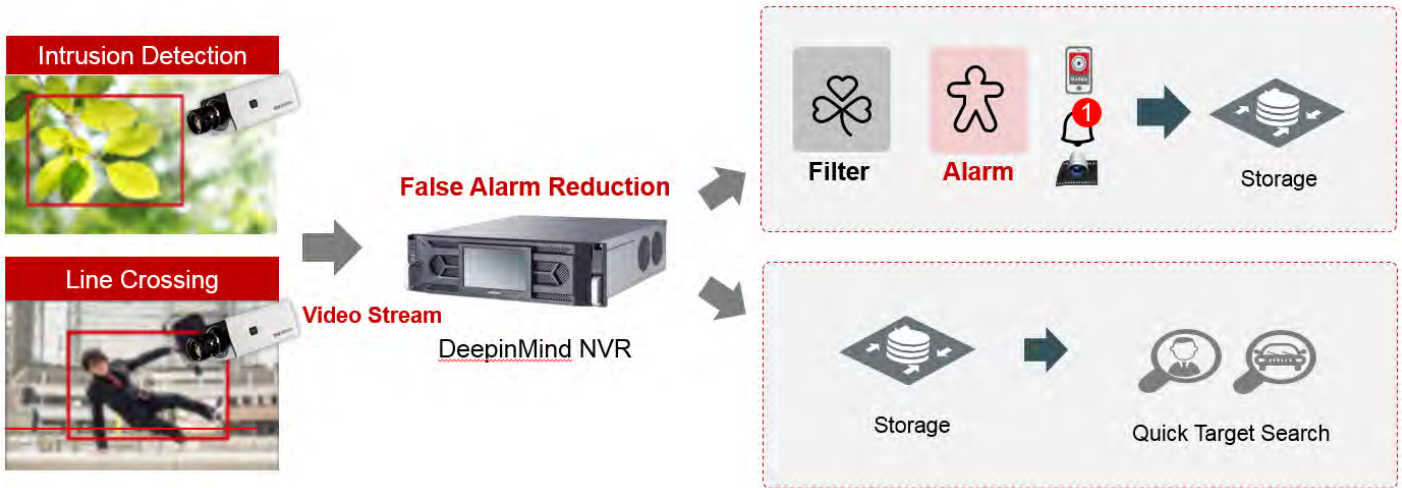
### Facial Recognition and Face Picture Comparison

Modeling and analyzing face pictures captured by cameras. Realize blacklist alarm and stranger alarm via face picture library. Search target people by picture and name features.



## False Alarm Reduction

Adopt deep learning algorithm to reduce false alarm, effectively reduces the false alarm caused by tree branches, leaves, shadow, light, vehicles, small animals, etc.



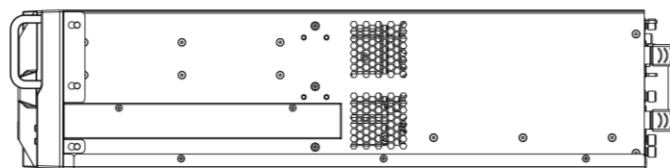
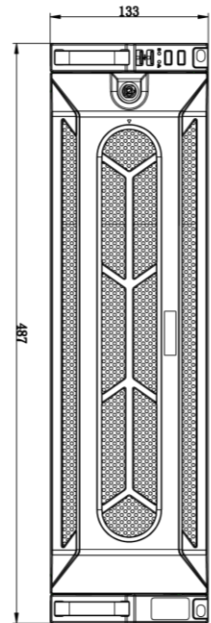
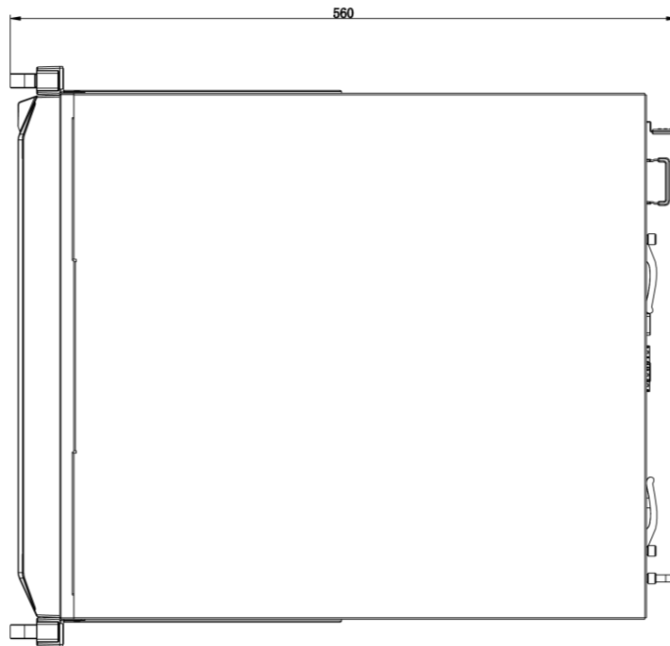
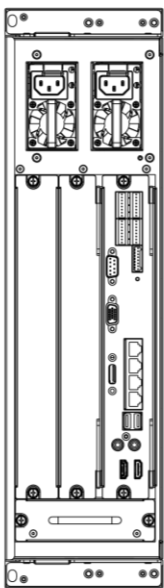
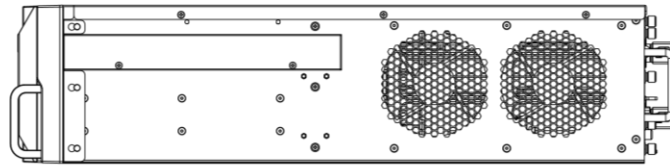
## Specification

Model	iDS-96064NXI-I16(B)	iDS-96128NXI-I16(B)
<b>Smart Analysis</b>		
<b>Facial detection and analytics</b>	Face picture comparison, human face capture, face picture search	
<b>Face picture library</b>	Up to 32 face picture libraries, with up to 300,000 face pictures in total	
<b>Face picture comparison</b>	24-ch face picture comparison alarm	48-ch face picture comparison alarm
<b>Performance of facial detection and analytics</b>	12-ch human face capture (HD network camera, up to 4 MP, H.264/H.265)	24-ch human face capture (HD network camera, up to 4 MP, H.264/H.265)
<b>Human/Vehicle Analysis</b>		
<b>False alarm reduction</b>	Up to 48-ch 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm	Up to 96-ch 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
<b>Video and Audio</b>		
<b>IP video input</b>	64-ch	128-ch
	Up to 12 MP resolution	
<b>Incoming/outgoing bandwidth</b>	400 Mbps/400 Mbps	512 Mbps/512 Mbps
<b>VGA output</b>	1-ch, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
<b>HDMI output</b>	2-ch independent HDMI interface, 4K (4096 × 2160)/30Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
<b>LCD output</b>	N/A (7-inch LCD optional)	7-inch LCD
<b>Audio input</b>	1-ch, RCA (2.0 Vp-p, 1 KΩ)	
<b>Audio output</b>	1-ch, RCA (2.0 Vp-p, 1 KΩ)	
<b>Two-way audio input</b>	1-ch, RCA (2.0 Vp-p, 1 k Ω)	
<b>Decoding</b>		
<b>Decoding format</b>	H.265+/H.265/H.264+/H.264/MJPEG/MPEG4	
<b>Recording resolution</b>	12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p /VGA/4CIF/DCIF/2CIF/CIF/QCIF	
<b>Synchronous playback</b>	16-ch	
<b>Capability</b>	5-ch@8 MP(30 fps)/10-ch@4 MP(30 fps)/20-ch@1080p(30 fps)/40-ch@720p(30 fps)	
<b>Dual-stream recording</b>	Support	
<b>Stream type</b>	Video, Video & Audio	
<b>Audio compression</b>	G.711ulaw/G.711alaw/G.722/G.726/MP2L2	
<b>Network</b>		
<b>Remote connections</b>	128	256
<b>Network protocol</b>	IPv6, HTTP, HTTPS, UPnP, SNMP, NTP, SADP, SMTP, NFS, iSCSI, PPPoE, DDNS	
<b>Network interface</b>	4, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface	
<b>Interoperability</b>	Profile S client	
<b>Network mode</b>	Net Fault-Tolerance, Load Balance, Multi-address	
<b>RAID</b>		
<b>RAID Type</b>	RAID0, RAID1, RAID5, RAID6, and RAID10 (at least 4 TB for each HDD)	

Auxiliary interface		
Fiber interface	N/A (optional)	4, gigabit Ethernet SFP interface (on extension board)
Serial port	RS-232; RS-485 (full-duplex); Keyboard	
SATA	16 SATA interfaces supporting hot-plug	
Capacity	Up to 10 TB capacity for each disk	
eSATA	1 eSATA interface	
MiniSAS	N/A (2 miniSAS interfaces optional)	2 miniSAS interfaces
Alarm in/out	16/8	48/24 (main board: 16/8; extension board: 32/16)
USB interface	Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0	
Extension board	N/A (optional to support)	1; With 4 × gigabit Ethernet SFP interfaces, 8 × RS-485 (full-duplex), 32 alarm inputs, and 16 alarm outputs
General		
Processor	Dual-Core Intel® Core® I3	Quad-Core Intel® Xeon® E3
Memory	8GB	
Power supply	100 to 240 VAC, redundant power supply, 550W	
Fan	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)	442 × 494 × 146 mm (17.4 × 19.4 × 5.7 inch)	447 × 528 × 172 mm (17.6 × 20.8 × 6.8 inch)
Weight (without HDD)	≤ 20 kg (44 lb)	≤ 23 kg (50.7 lb)
Certification		
FCC	SHEM190301156501ATC	
CE	SHEM190301156401ATC	

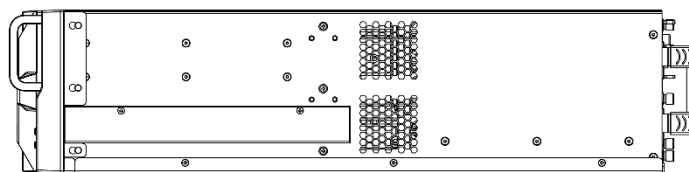
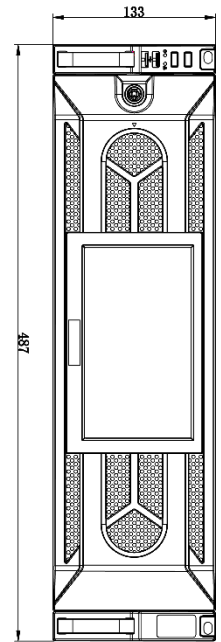
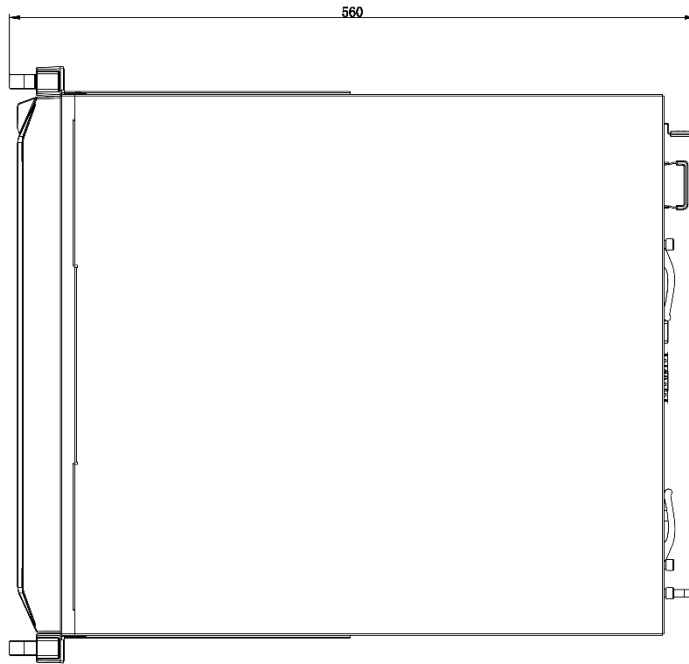
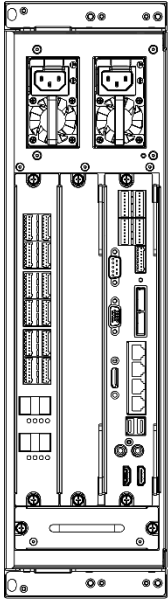
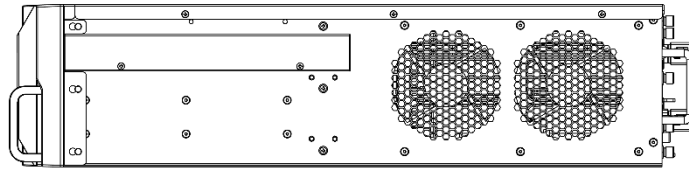
## Dimension

For iDS-96064NXI-I16(B)



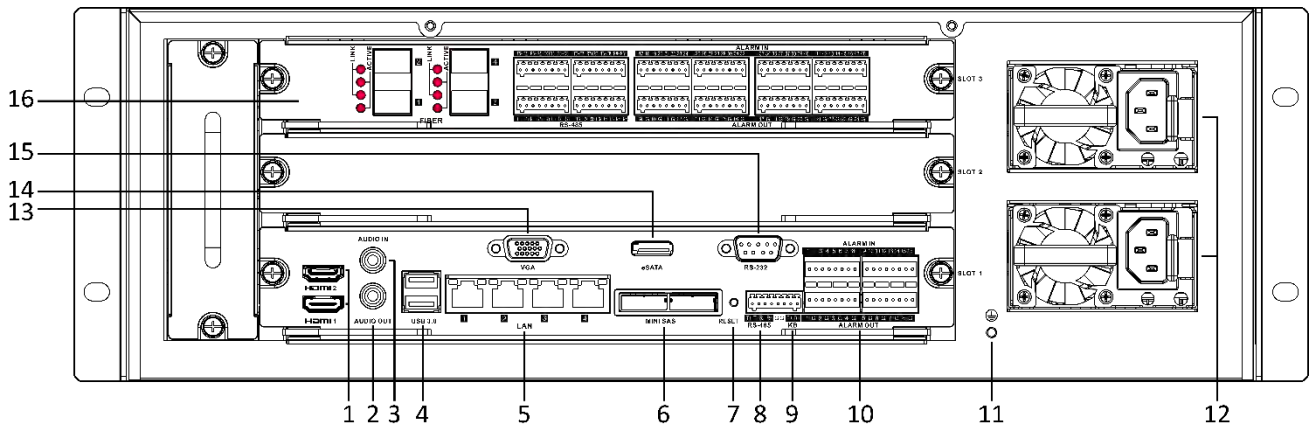
Unit: mm

For iDS-96128NXI-I16(B)



Unit: mm

## Physical Interfaces



No.	Description	No.	Description
1	HDMI1/HDMI2 Interface	9	Keyboard Interface
2	AUDIO OUT, RCA Connector	10	ALARM IN/OUT
3	AUDIO IN, RCA Connector	11	Ground
4	USB 3.0 Interface	12	100 to 240 VAC Power Supply
5	LAN Network Interface	13	VGA Interface
6	MiniSAS Interface (only available for iDS-96128NXI-I16(B))	14	eSATA Interface
7	Reset Button	15	RS-232 Interface
8	RS-485 Interface	16	Extension Board (only available for iDS-96128NXI-I16(B))



## Available Models

iDS-96064NXI-I16(B), iDS-96128NXI-I16(B)

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