iDS-9600NXI-I8/X DeepinMind Series NVR

Key Feature

- H.265+/H.265/H.264+/H.264 video formats
- Intelligent analytics based on deep learning algorithm
- Up to 16-ch perimeter protection
- Up to 8-ch facial recognition for video stream, or up to 16-ch facial recognition for face picture
- Up to 8-ch video structuralization
- Up to 16/32/64-ch IP cameras can be connected
- Up to 16-ch 1080p decoding capability

Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Dual-stream recording saves bandwidth
- Adopt stream over TLS encryption technology which provides more secure stream transmission service
- Support double verification for playback and downloading

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- Up to 8 SATA interfaces for HDD connection
- Up to 16-ch synchronous playback

Smart & POS Function

- Support multiple VCA (Video Content Analytics) events
- Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR (Automatic Number-Plate Recognition), and people counting
- POS information overlay on live view and playback, and POS triggered recording and alarm
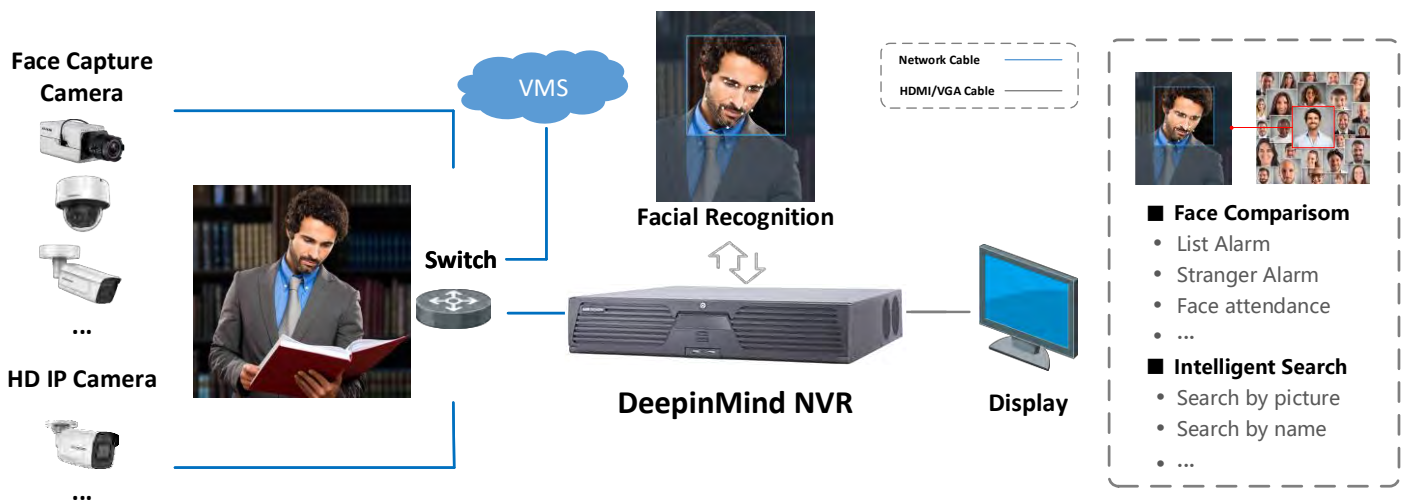
Network & Ethernet Access

- 2 self-adaptive 10/100/1000 Mbps Ethernet interfaces
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Smooth streaming technology
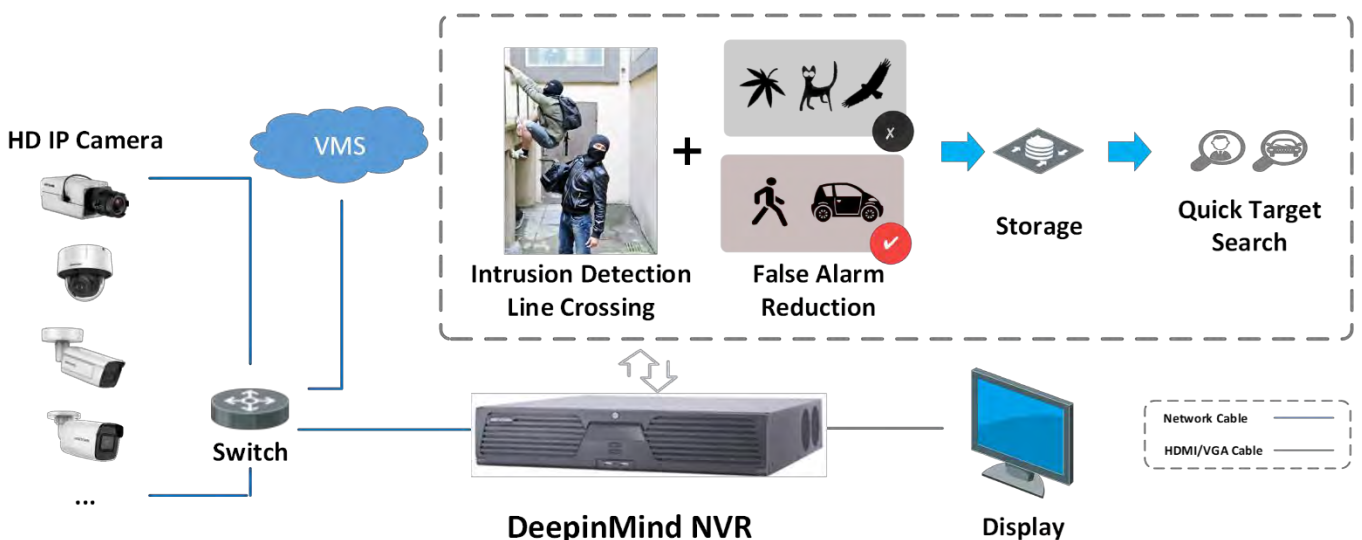- Support web access without plug-in

Typical Application

Facial Recognition and Face Picture Comparison

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

Face Capture Camera

HD IP Camera

VMS

Switch

Facial Recognition

DeepinMind NVR

Display

Network Cable
HDMI/VGA Cable

■ **Face Comparisom**
- List Alarm
- Stranger Alarm
- Face attendance
- ...

■ **Intelligent Search**
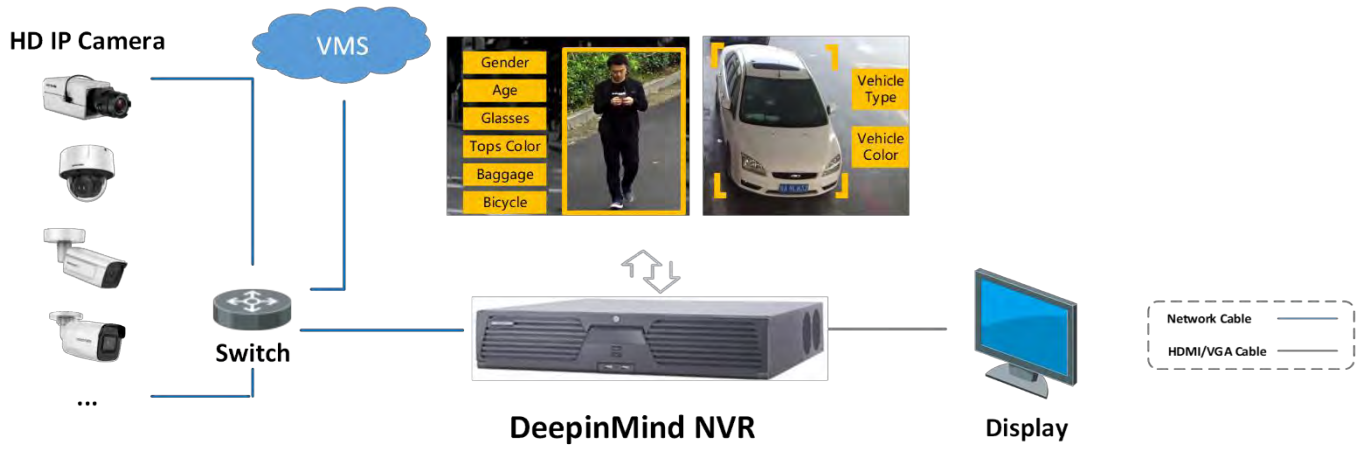- Search by picture
- Search by name
- ...

Perimeter Protection

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

HD IP Camera

VMS

Switch

Intrusion Detection Line Crossing

False Alarm Reduction

Storage

Quick Target Search

DeepinMind NVR

Display

Network Cable
HDMI/VGA Cable

Video Structuralization

Extracting the face picture, human body and vehicle features from live videos, which is used for the tracking and retrieval of human and vehicles.

Specification

Model	iDS-9616NXI-I8/X	iDS-9632NXI-I8/X	iDS-9664NXI-I8/X
Facial Recognition[1]			
Facial detection and analytics	Face picture comparison, human face capture, face picture search		
Face picture library	Up to 32 face picture libraries, with up to 100,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 20 GB)		
Face picture comparison	16-ch face picture comparison alarm		
Performance of facial detection and analytics	8-ch 8 MP human face capture (HD network camera, H.264/H.265)		
Perimeter Protection[1]			
False alarm reduction	Up to 16-ch 4 MP (HD network camera, up to 8 MP, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm		
Video Structuralization[1]			
Structured analysis	Up to 8-ch 2 MP (HD network camera, up to 8 MP, H.264/H.265) live video structuralization analysis		
Face picture library	Up to 32 face picture libraries, with up to 100,000 face pictures in total		
Face picture comparison	8-ch face picture comparison alarm		
Video and Audio			
IP video input	16-ch	32-ch	64-ch
	Up to 12 MP resolution *: 32 MP and 24 MP is only available for channel 1 when ultra HD resolution mode is enabled.		
Incoming/outgoing bandwidth	256 Mbps/256 Mbps	320 Mbps/256 Mbps	
Incoming/outgoing bandwidth (RAID mode)	200 Mbps/200 Mbps		
HDMI1 output	1-ch, 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
HDMI2 output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
VGA1 output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
VGA2 output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
Video output mode	HDMI1/VGA1 simultaneous output, HDMI2/VGA2 simultaneous output		
CVBS output	N/A		
Audio output	2-ch, RCA (Linear, 1 KΩ)		
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)		
Decoding			
Decoding format	H.265/H.265+/H.264/H.264+/MPEG4		
Recording resolution	32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF /2CIF/CIF/QCIF *: 32 MP and 24 MP is only available for channel 1 when ultra HD resolution mode is enabled.		
Synchronous playback	16-ch		

Capability	1-ch@32 MP (30 fps)/16-ch@1080p (30 fps)
Dual stream recording	Support
Stream type	Video, Video & Audio
Audio compression	G.711ulaw/G.711alaw/G.722/G.726/MP2L2
Network	
Remote connections	128
Network protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
RAID	
RAID Type	RAID0, RAID1, RAID5, RAID6, RAID10
Auxiliary interface	
Serial port	RS-232; RS-485; Keyboard
SATA	8 SATA interfaces
Capacity	Up to 10 TB capacity for each disk
eSATA	1 eSATA interface
Alarm in/out	16/8
USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
General	
Power supply	100 to 240 VAC, 50 to 60 Hz
Consumption (without HDD)	≤ 70 W
Working temperature	-10 to +55° C (+14 to +131° F)
Working humidity	10% to 90%
Dimension (W × D × H)	445 × 465 × 92 mm (17.5"× 18.3" × 3.6")
Weight (without HDD)	≤ 10 kg (22 lb)
Certification	
Obtained Certification	FCC, CE, UL, CB, WEEE, BIS, IC, RCM, KC, LOA
CE	EN 55032:2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4
FCC	Part 15 Subpart B, ANSI C63.4-2014

1: The device has three engine modes: facial recognition, perimeter protection, and video structuralization, among which no more two modes can be enabled at the same time. When two modes are enabled, capacity is as follows.
Perimeter protection: 8-ch
Video structuralization: 2-ch live video structuralization analysis and 4-ch face picture comparison alarm
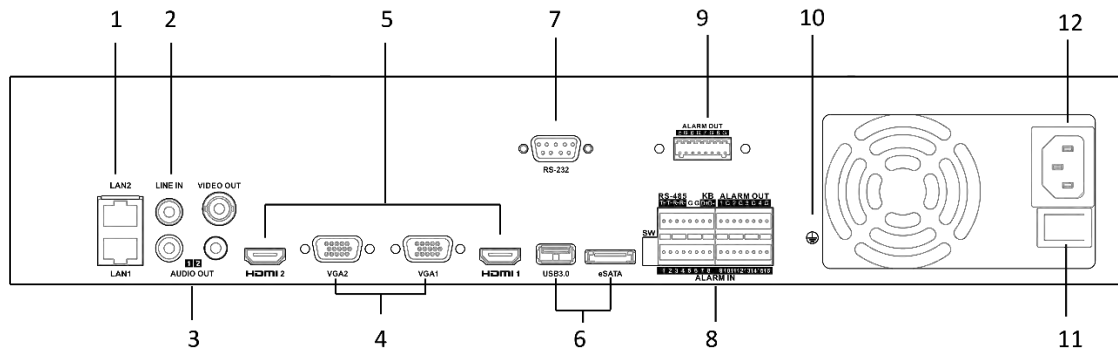Facial recognition: 4-ch face capture and 8-ch face picture comparison alarm

Dimension
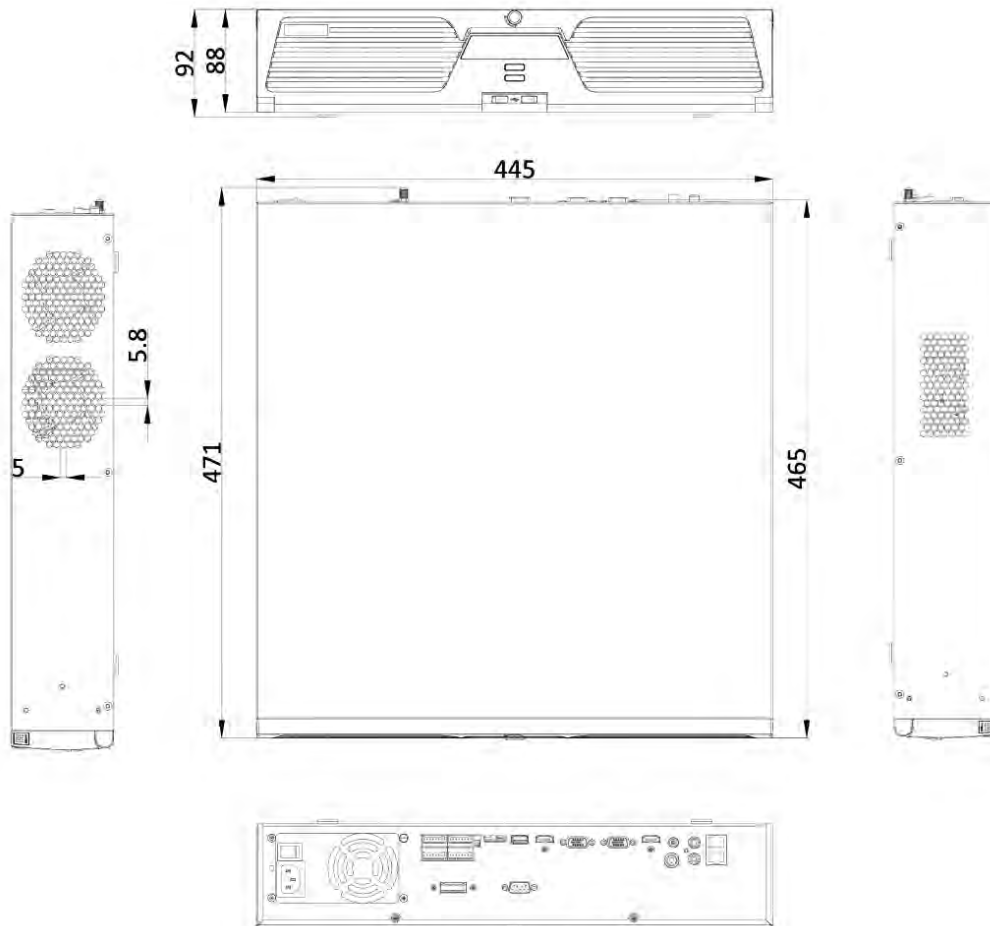
scale/1:1;Unit/mm

Physical Interface

No.	Description	No.	Description
1	LAN1/LAN2 Interface	7	RS-232 Interface
2	LINE IN	8	ALARM IN/OUT, RS-485, Keyboard
3	AUDIO OUT	9	ALARM OUT
4	VGA1/VGA2 Interface	10	GND
5	HDMI1/HDMI2 Interface	11	Power Switch
6	USB 3.0 and eSATA Interface	12	100 to 240 VAC Power Supply

Available Model

iDS-9616NXI-I8/X, iDS-9632NXI-I8/X, iDS-9664NXI-I8/X

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