iDS-96128NXI-I16 (C) DeepinMind NVR

Key Feature

- Up to 48-ch facial recognition for video stream, or up to 96-ch facial recognition for face picture
- Up to 48-ch video structuralization
- Up to 64 libraries and 500,000 face pictures
- Up to 96-ch human and vehicle recognition of perimeter protection to reduce false alarms
- Up to 32-ch throwing objects from building
- Up to 128-ch network camera inputs
- Up to 512 Mbps incoming and outgoing bandwidth
- 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

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
- Adopt stream over TLS encryption technology which provides more secure stream transmission service
- Support double verification for playback and downloading

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 are 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
- Smooth streaming technology
- Support web access without plug-in

Live view and Playback

- Up to 20-ch@1080p decoding for live view
- Up to 16-ch synchronous playback at 1080p resolution
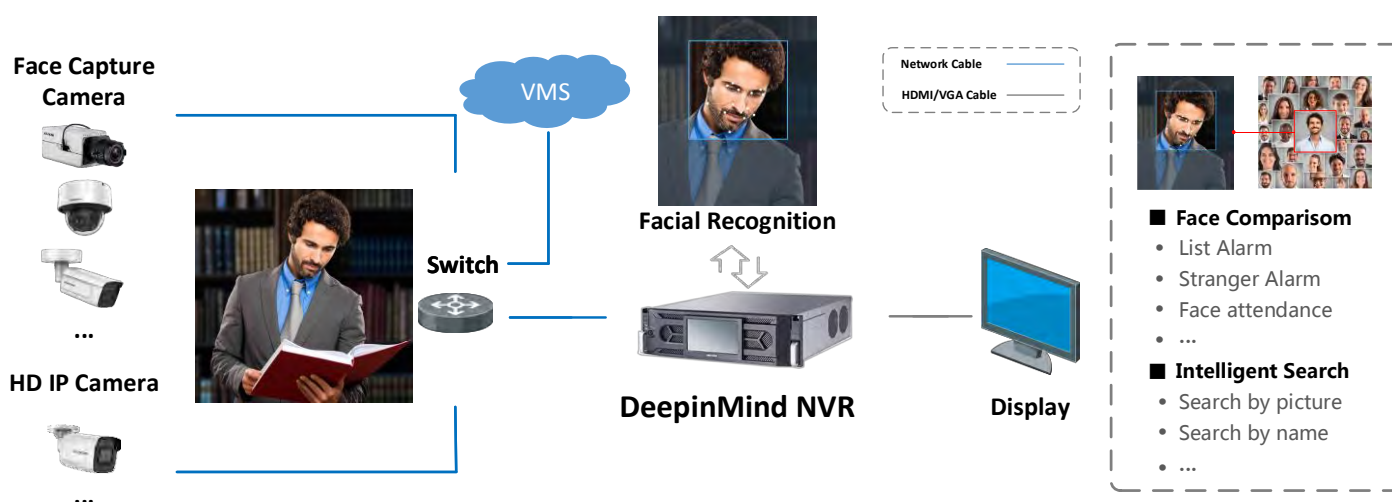- Dual 4K (4096 × 2160) HDMI outputs

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
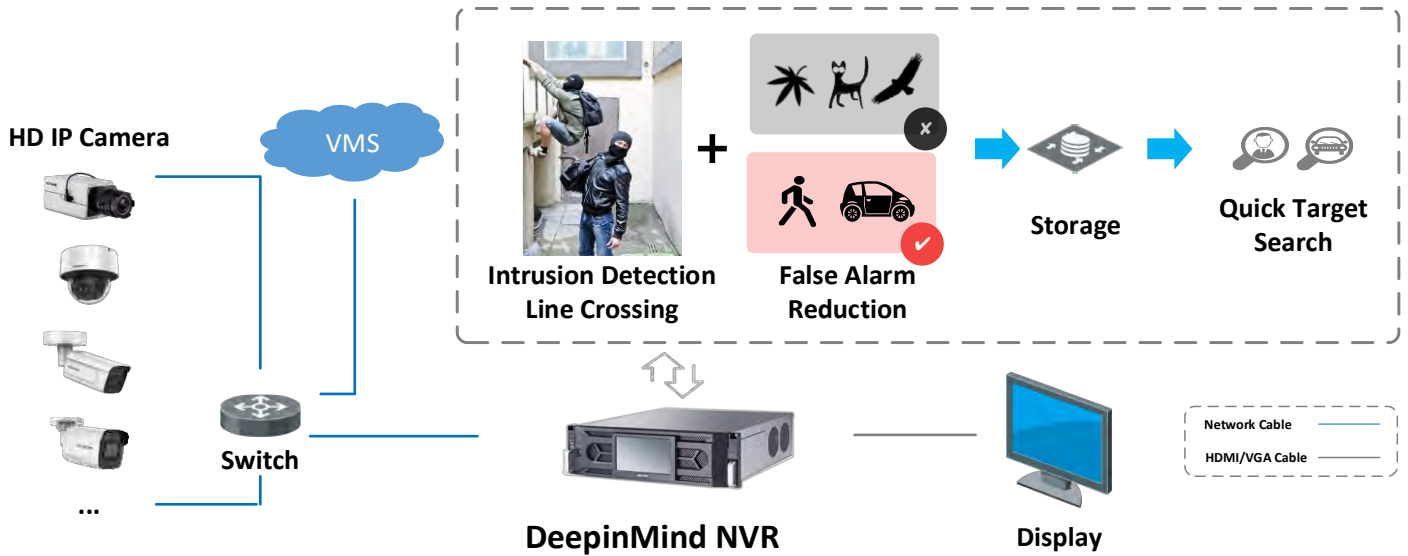
Typical Application

Facial Recognition and Face Picture Comparison
Modeling and analyzing face pictures captured by cameras. Realize 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
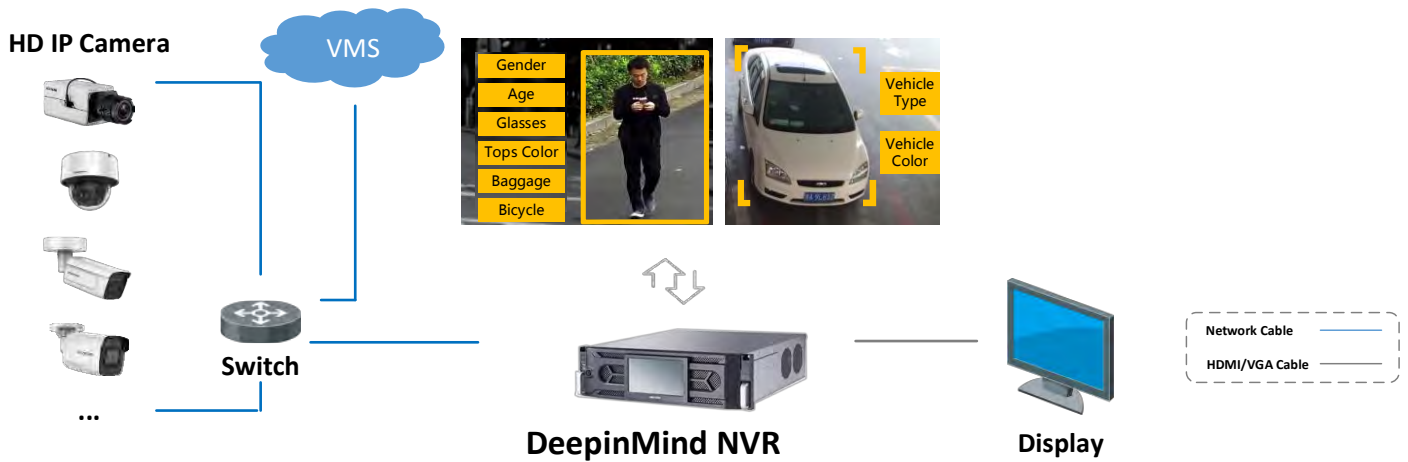- Search by picture
- Search by name
- ...

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

Intrusion Detection
Line Crossing

+

False Alarm
Reduction

Storage

Quick Target
Search

Switch

...

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.
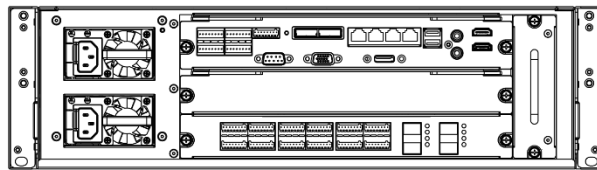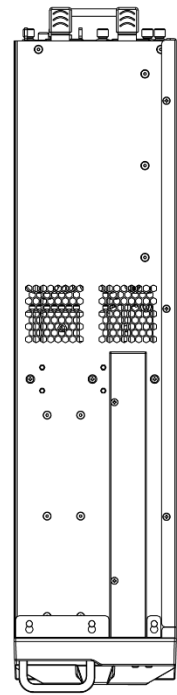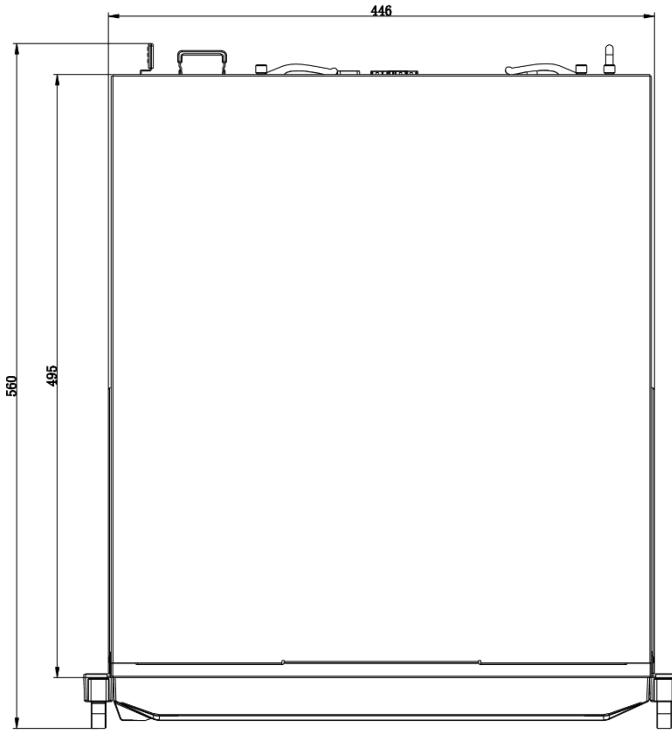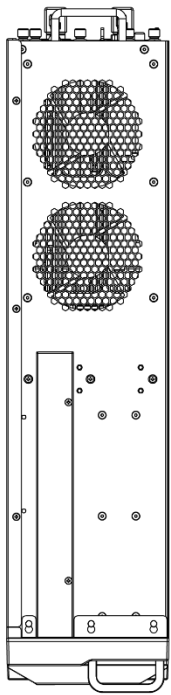

HD IP Camera

VMS

Gender
Age
Glasses
Tops Color
Baggage
Bicycle

Vehicle Type
Vehicle Color

Switch

...

DeepinMind NVR

Display

Network Cable

HDMI/VGA Cable

Specification

Model	iDS-96128NXI-I16
Facial Recognition	
Facial detection and analytics	Face picture comparison, human face capture, face picture search
Face picture library	Up to 64 face picture libraries, with up to 500,000 face pictures in total (each picture ≤ 6 MB, total capacity ≤ 40 GB)
Face picture comparison	96-ch face picture comparison alarm
Performance of facial detection and analytics	48-ch 4 MP human face capture (HD network camera, up to 8 MP, H.264/H.265)
Perimeter Protection	
Human/Vehicle analysis	Up to 96-ch 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
Video Structuralization	
Structured analysis	Up to 48-ch 2 MP (H.264/H.265) video structured analysis
Throwing Objects from Building	
Capability	Up to 32-ch 2 MP (H.264/H.265) video analysis
Video and Audio	
IP video input	128-ch
	Up to 12 MP resolution
	*: When ultra HD resolution mode is enabled, 32 MP and 24 MP is only available for channel 1 to channel 4.
Incoming bandwidth	512 Mbps
Outgoing bandwidth	512 Mbps
HDMI 1 output	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
HDMI 2 output	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
VGA output	1-ch, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
LCD output	7-inch LCD
Audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)
Audio output	1-ch, RCA (2.0 Vp-p, 1 KΩ)
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Decoding	
Decoding format	H.265+/H.265/H.264+/H.264/MJPEG/MPEG4
Recording resolution	32 MP/24 MP/12 MP/8 MP/7 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 to 4 when ultra HD resolution mode is enabled.
Synchronous playback	16-ch
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)
Dual-stream recording	Support

Stream type	Video, Video & Audio
Audio compression	G.711ulaw/G.711alaw/G.722/G.726/MP2L2
Network	
Remote connections	256
Network protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network interface	4, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
RAID	
RAID Type	RAID0, RAID1, RAID5, RAID6, and RAID10 (at least 4 TB for each HDD)
Auxiliary interface	
Fiber interface	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	2 miniSAS interfaces
Alarm in/out	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	1; With 4 × gigabit Ethernet SFP interfaces, 8 × RS-485 (full-duplex), 32 alarm inputs, and 16 alarm outputs
General	
Processor	Quad-Core Intel® Xeon® E3
Memory	8 GB
Power supply	100 to 240 VAC, 50 to 60Hz, 5 A
Fan	Dual ball bearing fan; Speed adjustable
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)	446 × 495 × 133 mm (17.6 × 19.5 × 5.2 inch)
Weight (without HDD)	≤ 23 kg (50.7 lb)
Certification	
Obtained Certification	CE, FCC, CB, WEEE
FCC	Part 15 Subpart B, ANSI C63.4
CE	EN 55032:2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4

Dimension

486.6

133

446

560

495

Unit: mm

Physical Interface

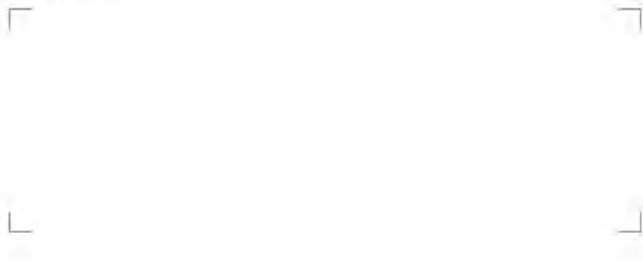| No.	Description	No.	Description
1	HDMI 1/HDMI 2 Interface	9	Keyboard Interface
2	AUDIO OUT, RCA Connector	10	ALARM IN/OUT
3	AUDIO IN, RCA Connector	11	Ground
4	USB 3.0 Interface	12	100 to 240 VAC Power Supply
5	LAN Network Interface	13	VGA Interface
6	MiniSAS Interface	14	eSATA Interface
7	Reset Button	15	RS-232 Interface
8	RS-485 Interface	16	Extension Board

Available Model

iDS-96128NXI-I16 (C)

Distributed by

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