HIKVISION

iDS-7616NXI-I2/16P/X (C)
DeepinMind Series NVR

Key Feature

- H.265+/H.265/H.264+/H.264 video formats
- Intelligent analytics based on deep learning algorithm
- Up to 8-ch perimeter protection
- Up to 8-ch facial recognition for video stream, or up to 16-ch facial recognition for face picture
- Up to 4-ch video structuralization
- Up to 4-ch throwing objects from building
- Up to 8-ch IP cameras can be connected
- Up to 16-ch 1080p decoding capability

Profession 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 2 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
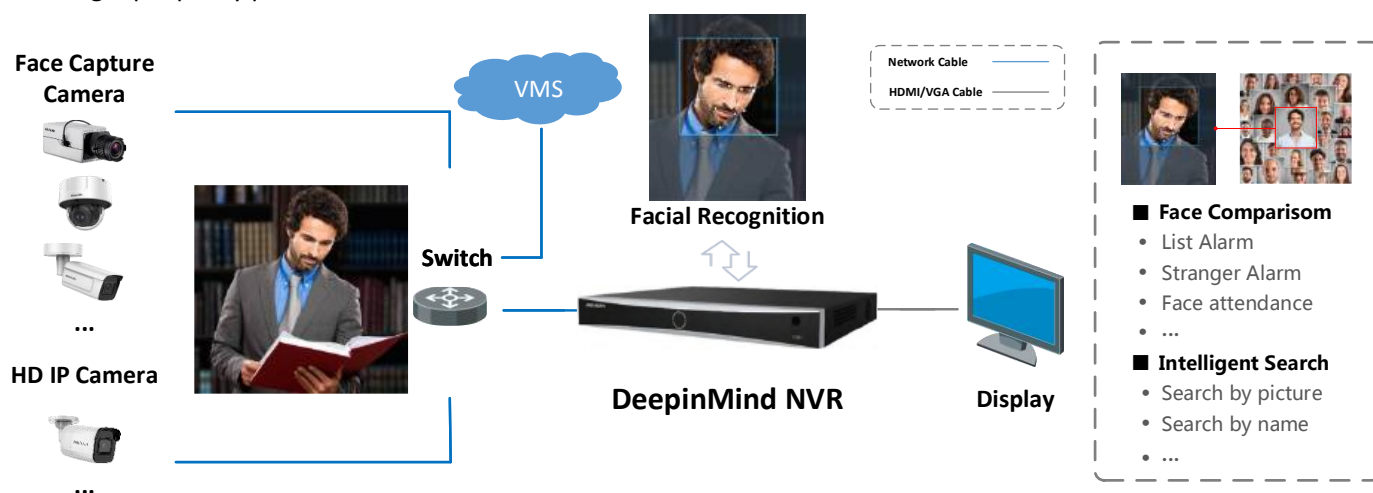- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management

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

Typical Application

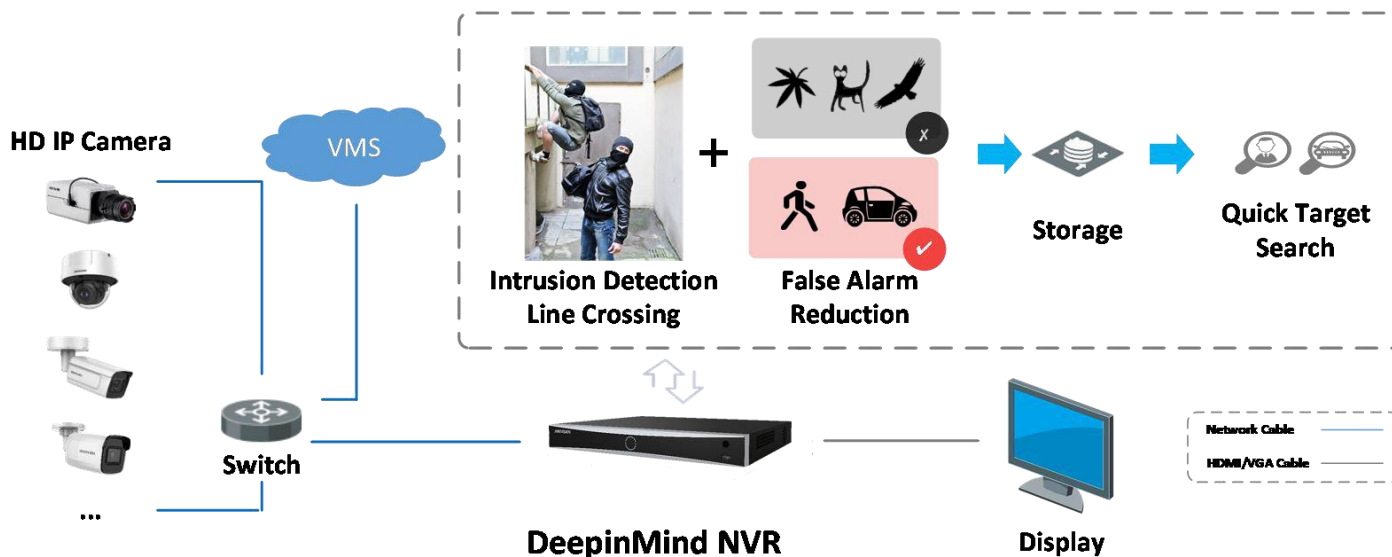## Facial Recognition and Face Picture Comparison

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

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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

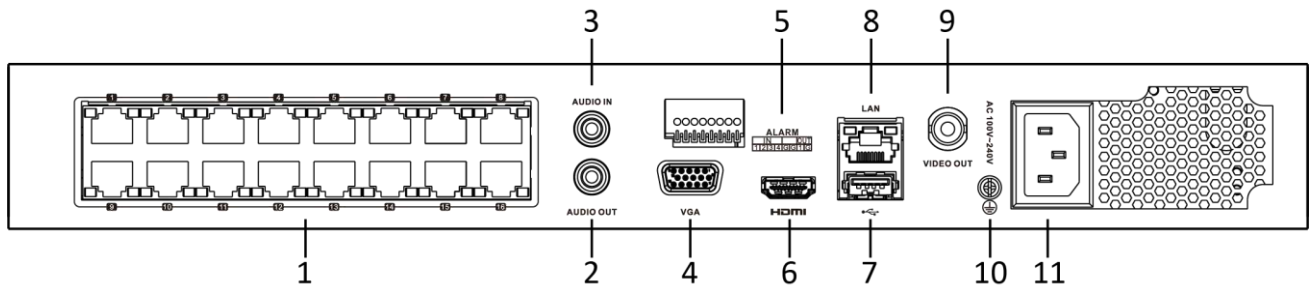| Model	iDS-7616NXI-I2/16P/X
Facial Recognition[1]	
Facial detection and analytics	Face picture comparison, human face capture, face picture search
Face picture library	Up to 16 face picture libraries, with up to 100,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face picture comparison	16-ch face picture comparison alarm
Performance of facial detection and analytics	8-ch 4 MP human face capture (HD network camera, up to 8 MP, H.264/H.265)
Perimeter Protection[1]	
Human/vehicle analysis	Up to 8-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 4-ch 2 MP (HD network camera, up to 8 MP, H.264/H.265) live video structuralization analysis
Face picture library	Up to 16 face picture libraries, with up to 100,000 face pictures in total
Face picture comparison	8-ch face picture comparison alarm
Throwing Objects from Building[1]	
Capability	Up to 4-ch 2 MP (H.264/H.265) video analysis
Video and Audio	
IP video input	16-ch
	Up to 12 MP resolution
Incoming bandwidth	320 Mbps
Outgoing bandwidth	256 Mbps
HDMI 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
VGA output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Video output mode	HDMI/VGA independent output
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio output	1-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	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	16-ch
Capability	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 connection	128

Network protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network interface	1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
PoE	
Interface	16, RJ-45 10/100 Mbps self-adaptive Ethernet interface
Power	≤ 200 W
Supported standard	IEEE 802.3 af/at
Auxiliary interface	
Serial port	N/A
SATA	2 SATA interfaces
Capacity	Up to 10 TB capacity for each disk
Alarm in/out	4/1
USB interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0
General	
Power supply	100 to 240 VAC, 50 to 60 Hz
Consumption (without HDD and PoE off)	≤ 30 W
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working humidity	10% to 90%
Dimension (W × D × H)	385 × 315 × 52 mm (15.2"× 12.4" × 2.0")
Weight (without HDD)	≤ 1 kg (2.2 lb)
Certification	
Obtained Certification	CE, FCC, UL, CB, WEEE, BIS, IC, RCM, KC, LOA
CE	EN50130-4, EN 61000-3-2,EN 61000-3-3, EN55032:2015
FCC	Part 15 Subpart B, ANSI C63.4-2014

1: Facial recognition, perimeter protection video structuralization and throwing objects from building cannot be enabled at the same time. Enable one function will make the others unavailable.

Dimension

385

315

327

52

ear: additional for
rack-mounting,
order code:190107647

scale/1:1;Unit/mm
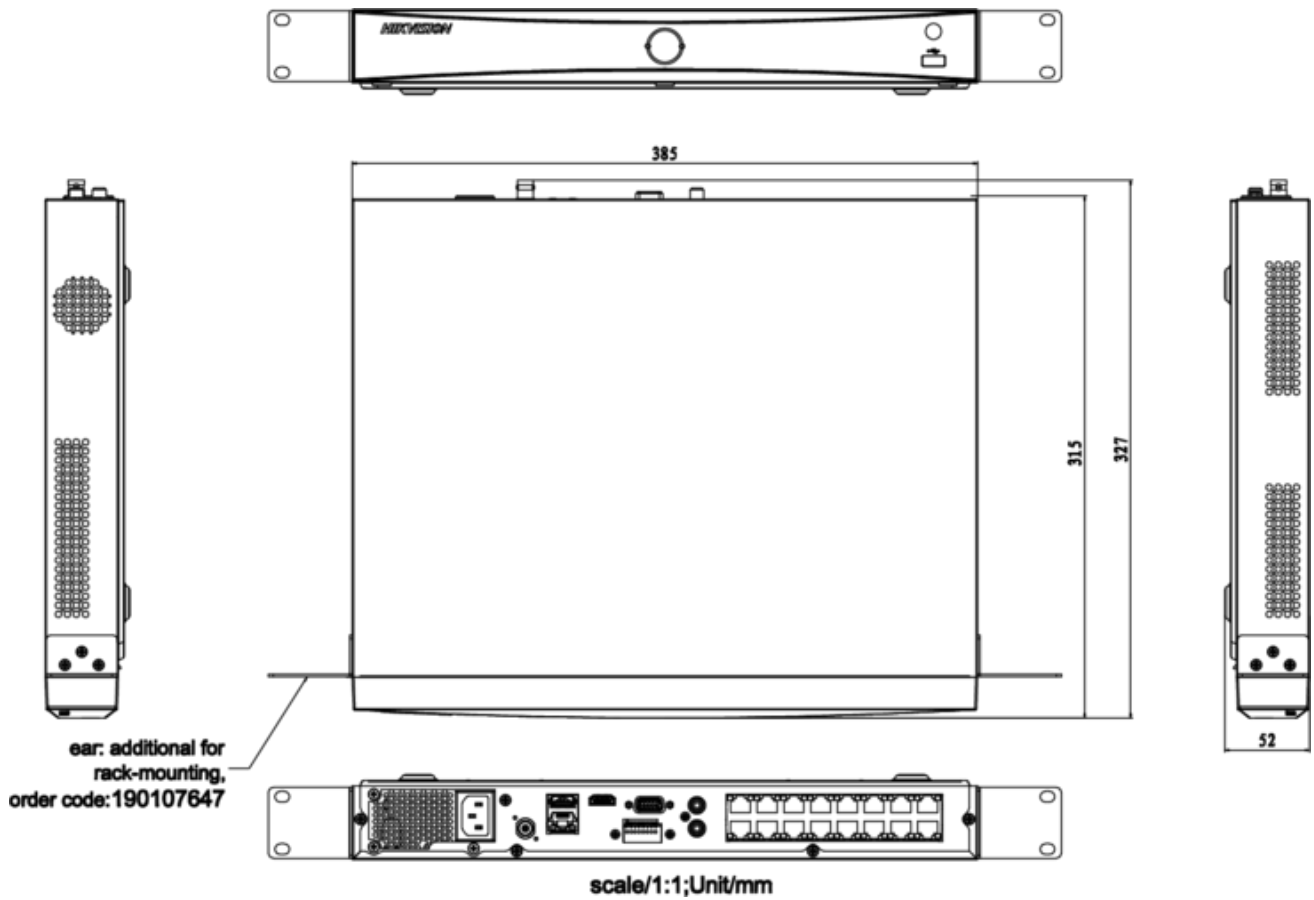
Physical Interface

No.	Description	No.	Description
1	Network Interfaces with PoE Function	7	USB 3.0 Interface
2	AUDIO OUT	8	Network Interface
3	AUDIO IN	9	VIDEO OUT
4	VGA Output (DB9 Connector)	10	GND
5	Alarm IN/OUT	11	100 to 240 VAC Power Supply
6	HDMI Interface		

Available Model

iDS-7616NXI-I2/16P/X (C)

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