DS-7732NXI-M4/16P/VPro
16-ch 1.5U 16 PoE 8K M/VPro NVR

Key Feature

- Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 32-ch IP cameras can be connected
- Up to 16-ch perimeter protection powered by self-learning technology
- Up to 8-ch facial recognition for video stream, or up to 8-ch facial recognition for face picture

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 8K resolution

Storage and Playback

- Up to 4 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
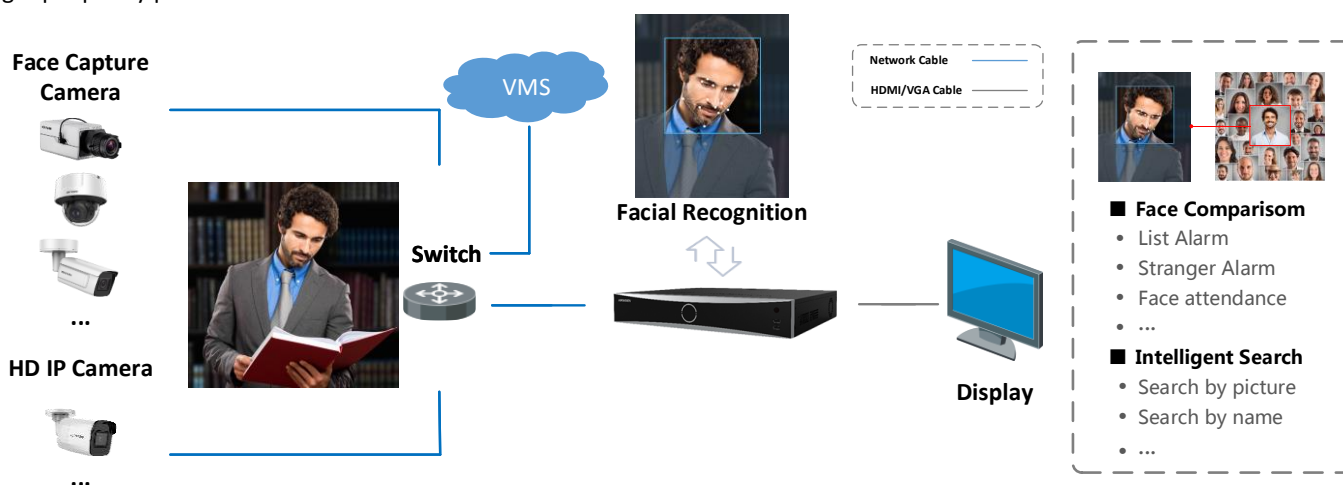
Network & Ethernet Access

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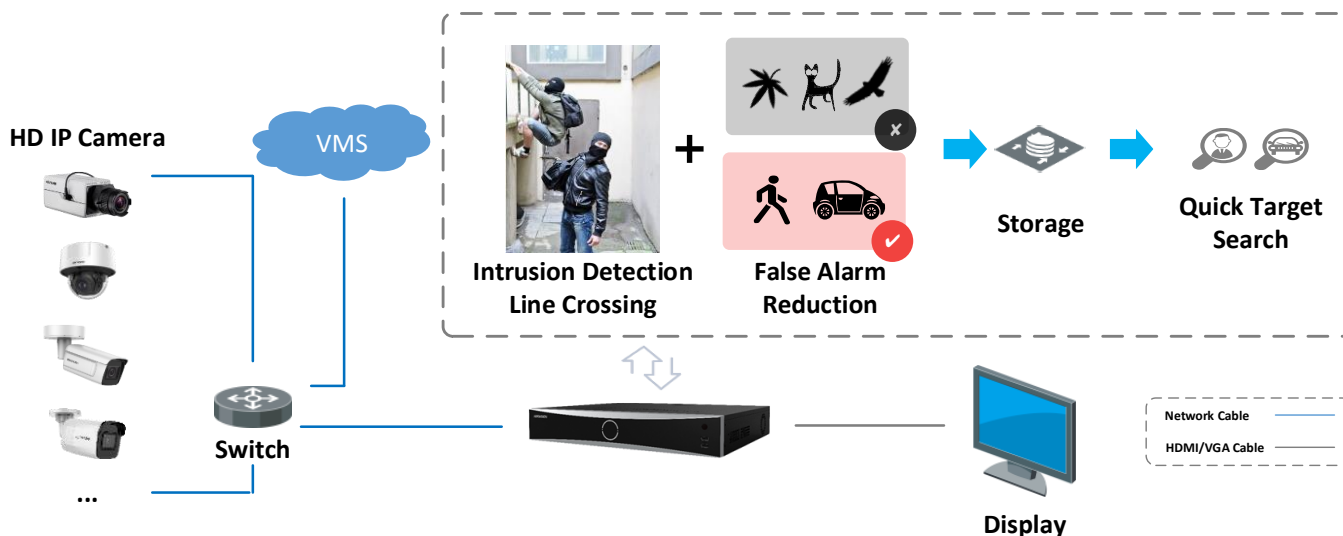● Support web access without plug-in

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.
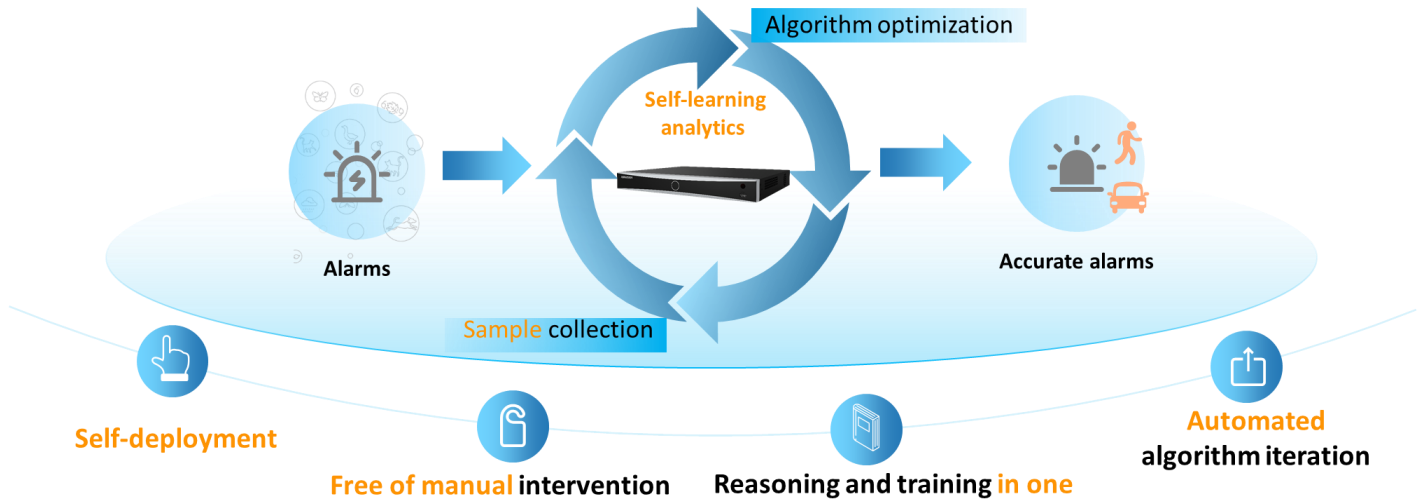

Perimeter Protection

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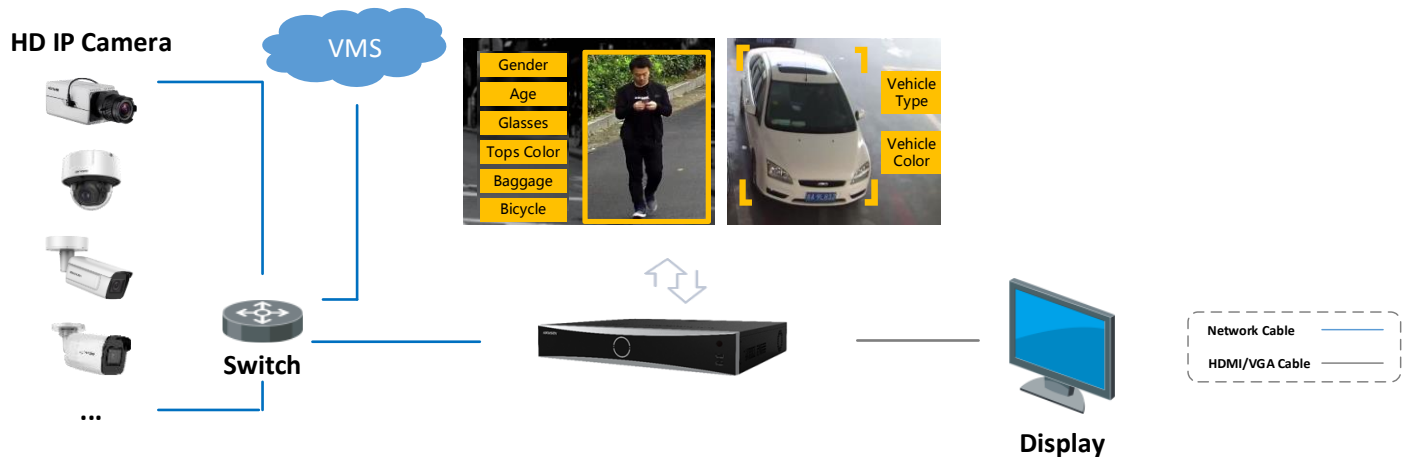
Perimeter Protection with Self-learning

Self-learning technology optimizes algorithm accuracy and requires minimum manual intervention from users. The more you use it, the more accurate it would be.

Algorithm optimization

Self-learning analytics

Alarms

Accurate alarms

Sample collection

Self-deployment

Free of manual intervention

Reasoning and training in one

Automated algorithm iteration

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.
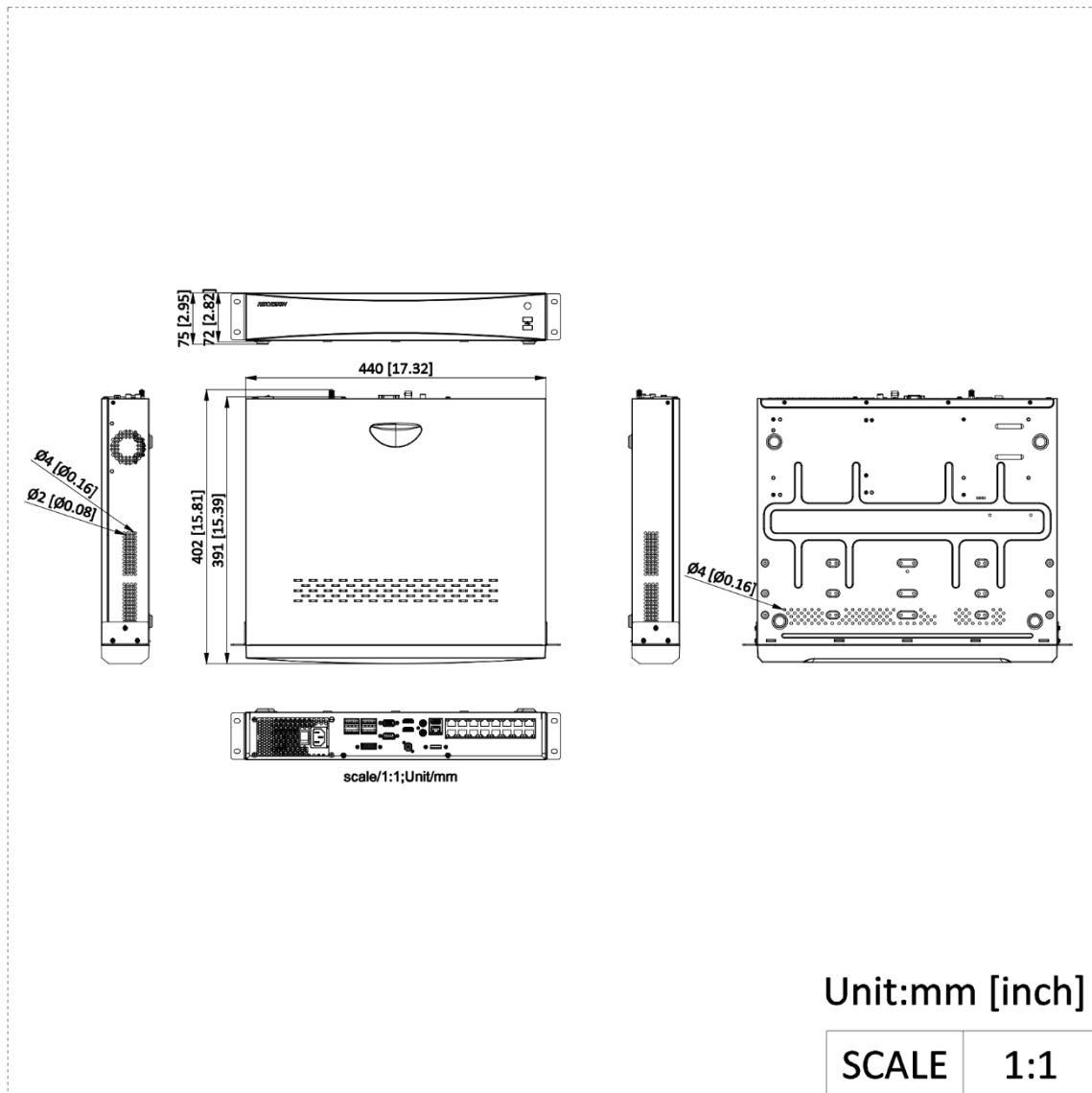

HD IP Camera

VMS

| Gender |
| Age |
| Glasses |
| Tops Color |
| Baggage |
| Bicycle |

Vehicle Type

Vehicle Color

Switch

...

Display

Network Cable

HDMI/VGA Cable

▪ Specification

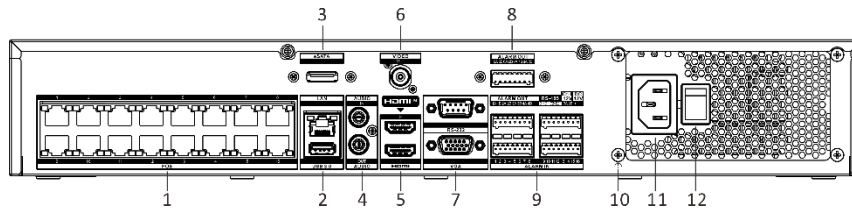| Intelligent Analytics	
AI by NVR	Facial recognition, perimeter protection, video structuralization
AI by Camera	Facial recognition, perimeter protection, video structuralization, motion detection2.0, ANPR, people counting, VCA
Engine	1 engine can run an intelligent algorithm, engine mode is adjustable
Facial Recognition	
Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face Picture Comparison (Captured from Camera)	24-ch; Comparison speed: 24 pictures per second
Facial Detection and Analytics Performance	8-ch 2 MP, up to 8 MP
Perimeter Protection	
By NVR	12-ch 2 MP, up to 8 MP
By Camera	All channels
Self-Learning	
Perimeter Protection	All channels for AcuSense cameras; Analysis speed: 4 pictures per second; Note: Enabling self-learning would occupy an engine.
Video Structuralization	
Structured Analysis	6-ch 2 MP, up to 8 MP
Face Picture Library	Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 500,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face Picture Comparison	8-ch; Comparison speed: 16 pictures per second
ANPR	
By Camera	All channels
Vehicle Attributes	Plate number, license plate color, license plate type
Plate Attributes	Vehicle brand, vehicle color, vehicle type

Video and Audio	
IP Video Input	32-ch Up to 32 MP resolution *: After ultra HD resolution mode is enabled, the NVR supports up to 8-ch 32 MP/24 MP IP video inputs.
Incoming Bandwidth	320 Mbps
Outgoing Bandwidth	400 Mbps
HDMI 1 Output	8K (7680 × 4320)/30Hz, 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz
HDMI 2 Output	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz *: When HDMI 1 output resolution is 8K, the maximum HDMI 2 output resolution is 1080p.
VGA Output	1920 × 1080/60Hz
Video Output Mode	HDMI1/VGA1 simultaneous output, HDMI1/HDMI2 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	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Decoding	
Decoding Format	H.265/H.265+/H.264/H.264+
Decoding Capability	2-ch@32 MP (30 fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)
Synchronous Playback	16-ch
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 *: After ultra HD resolution mode is enabled, the NVR supports up to 8-ch 32 MP/24 MP IP video inputs.
Network	
Remote Connection	128
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
API	ONVIF (profile S/G); SDK; ISAPI
Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Interface	1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
PoE	
Interface	16 RJ-45 10/100 Mbps self-adaptive Ethernet interfaces

Power	≤ 200 W
Standard	IEEE 802.3 af/at
Auxiliary Interface	
Ctrl 12V	Controllable 12 VDC, 1 A power output for external alarm device; The power will be turned on when the alarm output is triggered. *: The Ctrl 12V power is controlled by alarm output 9.
DC 12V	12 VDC, 1 A power output
SATA	4 SATA interfaces; 3.5-inch HDD
eSATA	1 eSATA interface
Capacity	Up to 14 TB capacity for each HDD
Serial Interface	1 RS-232, 2 RS-485 (half-duplex), 1 keyboard
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm In/Out	16/9
General	
GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz , Brazilian Portuguese, Indonesian
Power Supply	100 to 240 VAC, 50 to 60 Hz
Consumption	≤ 50 W (without HDD and PoE off)
Working Temperature	-10 to 55° C (14 to 131° F)
Working Humidity	10 to 90%
Dimension (W × D × H)	440 × 391 ×72 mm (17.3"× 15.4" × 2.8")
Weight	≤ 5 kg (without HDD, 11 lb.)
Certification	
Obtained Certification	CE, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS
CE	EN 55032:2015+A1:2020, ENIEC61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019, EN 50130-4:2011+A1:2014, EN 55035:2017+A11:2020

Dimension

75 [2.95]
72 [2.82]

440 [17.32]

402 [15.81]
391 [15.39]

Ø4 [Ø0.16]
Ø2 [Ø0.08]

Ø4 [Ø0.16]

scale/1:1;Unit/mm

Unit:mm [inch]

| SCALE | 1:1 |

Physical Interface

No.	Description	No.	Description
1	Network interfaces with PoE function	8	RS-232 serial interface
2	USB 3.0 interface and LAN interface	9	Alarm out
3	eSATA interface	10	Alarm in, alarm out, RS-485, Ctrl 12V and DC 12V
4	Audio in and audio out	11	GND
5	HDMI 1 and HDMI 2 interfaces	12	100 to 240 VAC power supply
6	CVBS video output	13	Power switch
7	VGA output		

Available Model

DS-7732NXI-M4/16P/VPro

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