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-ch 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 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

- 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.
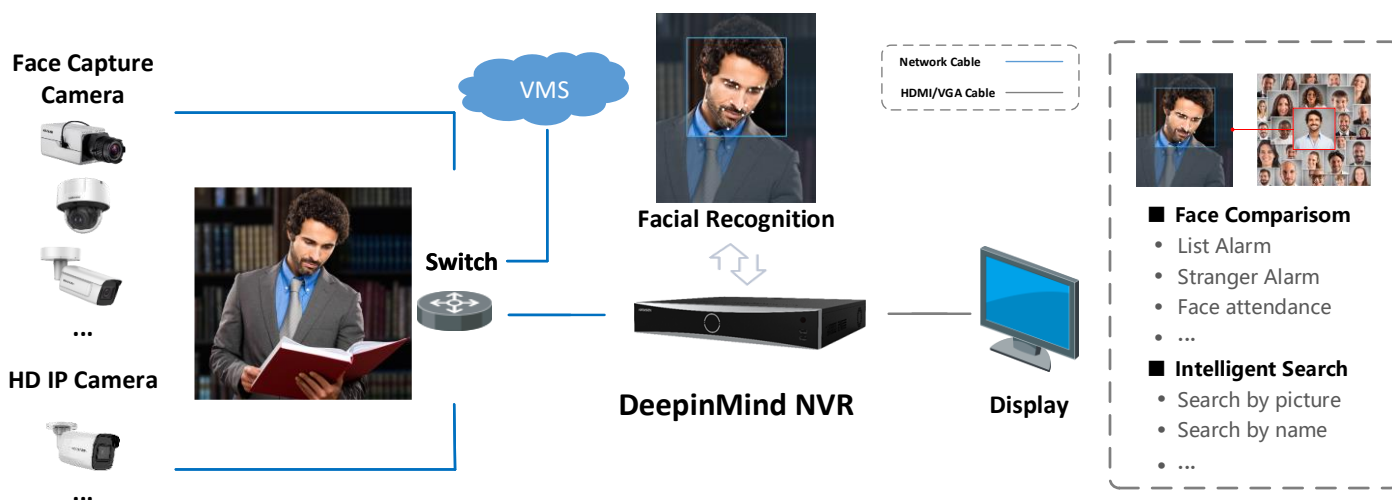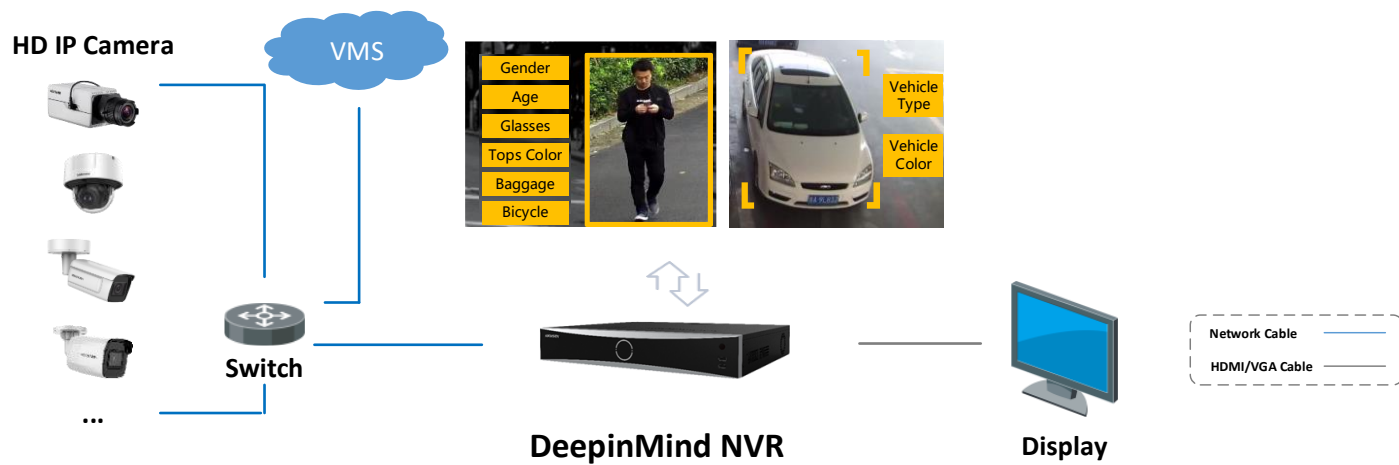

Perimeter Protection

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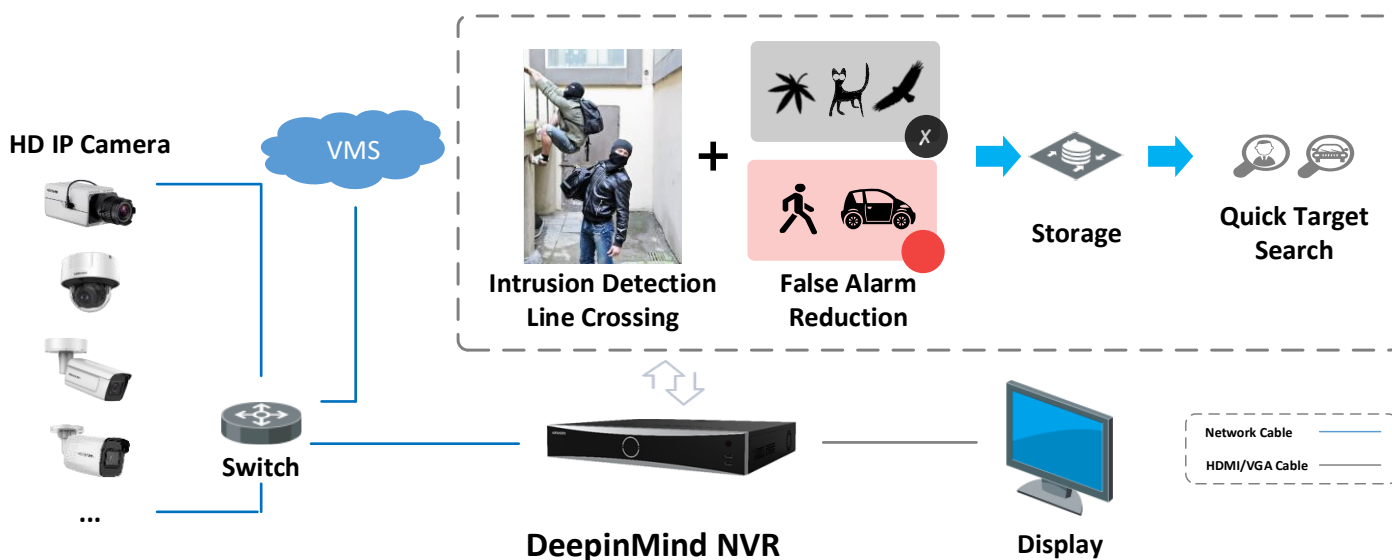
Video Structuralization

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		
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 8 MP human face capture (HD network camera, H.264/H.265)	
Perimeter Protection[1]		
Human/vehicle analysis	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 16 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
	Up to 12 MP resolution *: 32 MP and 24 MP is only available for channel 1 when ultra HD resolution mode is enabled.	
Incoming bandwidth	320 Mbps	
Outgoing bandwidth	256 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	
VGA output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
Video output mode	HDMI1/VGA simultaneous output, HDMI2/VGA independent output	
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω)	
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	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
Auxiliary interface	
Serial port	RS-485 (half-duplex), RS-232, keyboard
SATA	4 SATA interfaces
eSATA	1 eSATA interface
Capacity	Up to 10 TB capacity for each disk
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)	≤ 30 W
Working temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working humidity	10% to 90%
Chassis	19-inch rack-mounted 1.5U chassis
Dimension (W × D × H)	445 × 400 × 75 mm (17.5"× 15.7" × 3.0")
Weight (without HDD)	≤ 5 kg (11 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
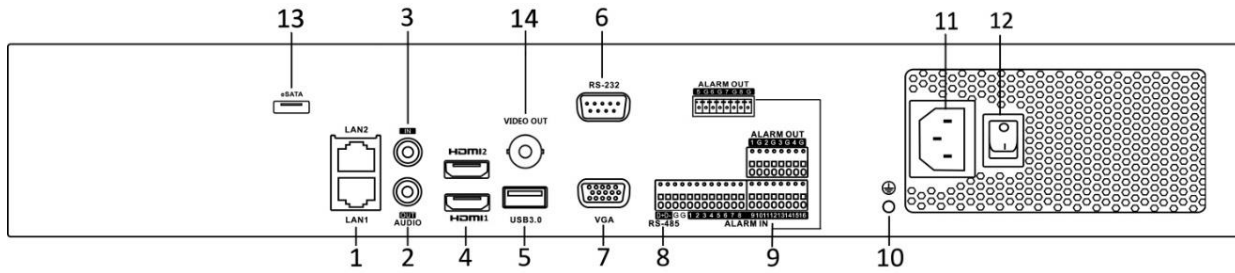Facial recognition: 4-ch face capture and 8-ch face picture comparison alarm

Dimension
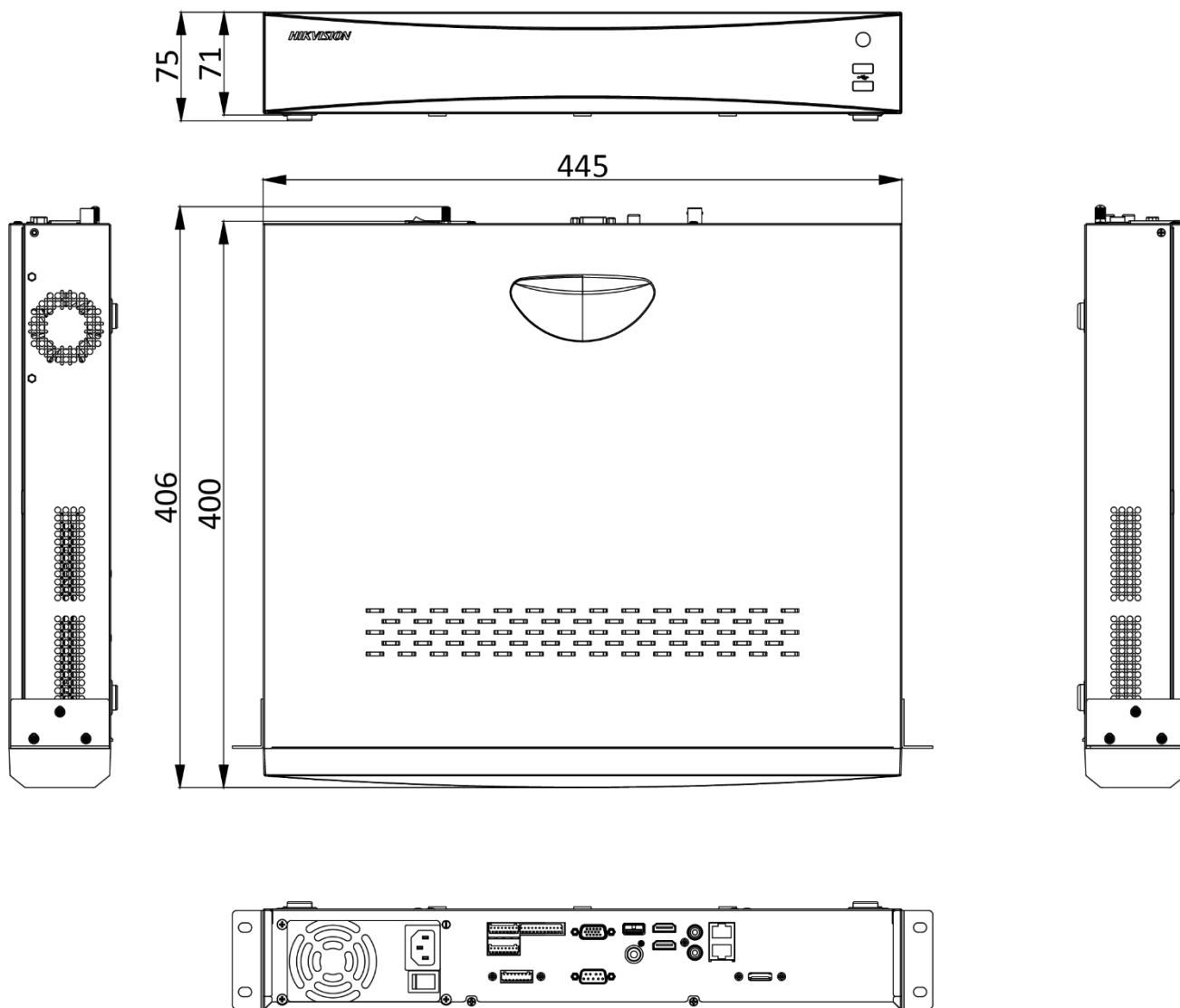
scale/1:1;Unit/mm

Physical Interface

No.	Description	No.	Description
1	LAN1 and LAN2 Interfaces	8	RS-485 Serial Interface
2	AUDIO OUT	9	Controller Port, Alarm In/Alarm Out
3	AUDIO IN	10	GND
4	HDMI1 and HDMI2 Interfaces	11	100 to 240 VAC Power Supply
5	USB 3.0 Interface	12	Power Switch
6	RS-232 Serial Interface	13	eSATA Interface
7	VGA Output (DB9 Connector)	14	VIDEO OUT