

iDS-9600NXI-I16/I24 DeepinMind Series NVR



Features and Functions

Deep Learning and Analytics

- Face pictures library management
- Face pictures comparison and alarm linkage actions
- Search by picture
- More precise human body recognition and analytics based on deep learning algorithm
- Video structure analysis: extract features of the human body and vehicle for quick search
- Extracts the moving targets from the video and play in the live view screen
- HDD data smart release to maintain longer saving time of important data
- Video abstract playback to view target of interest in the video

Video Input and Transmission

- Connect up to 128-ch IP cameras
- Compatible with the third-party network cameras

HD Video Output and Decoding

- Support H.265+ decoding format
- Up to 20-ch decoding at 1080p resolution
- HDMI1 and HDMI2 outputs provided
- HDMI1 output at up to 4K (4096 × 2160) resolution

Storage and Playback

- Full channel recording at up to 12 MP resolution
- Up to 8 TB capacity for each HDD supported
- HDD hot swap with RAID0, RAID1, RAID5, RAID6 and RAID10 storage scheme configurable
- 16-ch synchronous playback at 1080p resolution

VCA Function

- Support multiple VCA (Video Content Analytics) events
- Smart search for the selected area in the video; and smart playback to improve the playback efficiency

Network & Ethernet Access

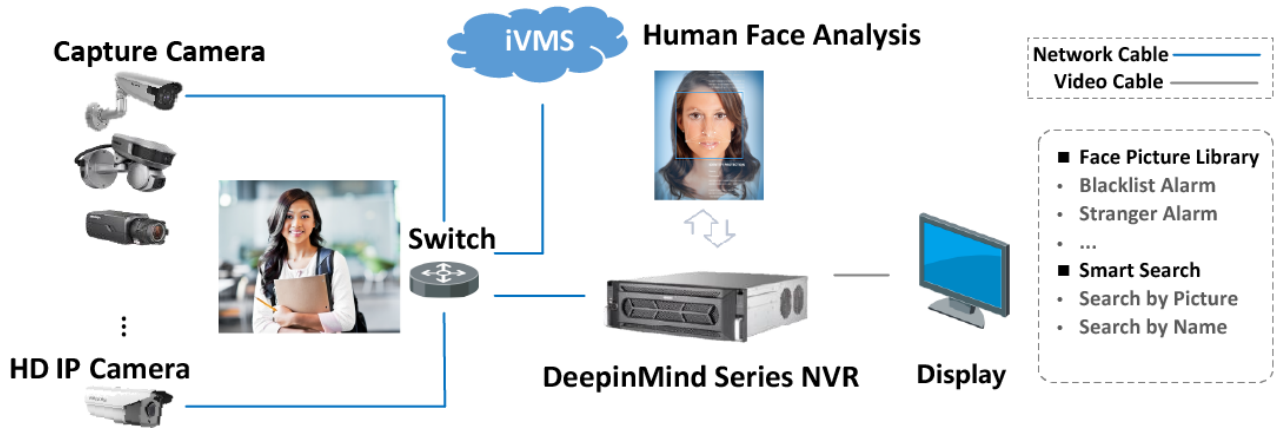
- 4 Gigabit Ethernet network interfaces
- 4 Gigabit optical interfaces (iDS-96128NXI-I24)



Typical Application

Face Picture Analysis

Modeling and analyze human faces in pictures captured by connected capture cameras. Realize blacklist alarm and stranger alarm via face picture library. Search target people via the search by picture and the search by name features.



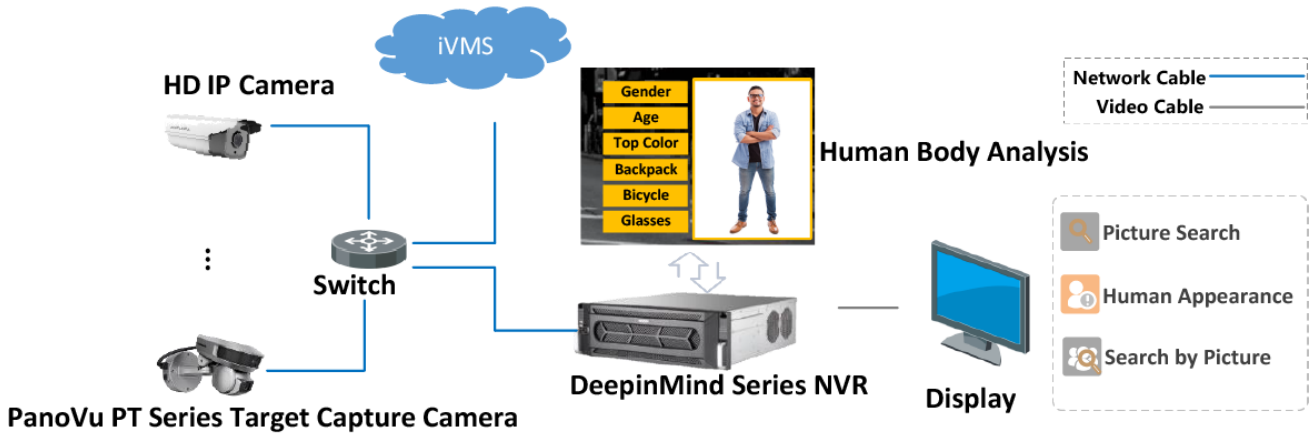
Behavior Detection Events

The false alarm filter feature enables the system to perform secondary recognition for the human body target in the behavior detection events (line crossing detection, intrusion detection) and effectively reduces the false alarm caused by the tree leaves shaking, shadow, light, vehicle, small animals, etc.



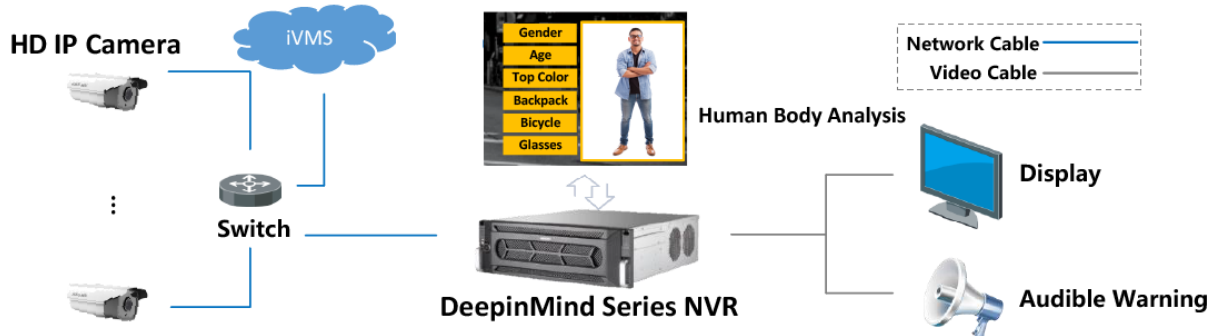
Human Body Picture Structuralization

Realize the human appearance search and searching human body by picture features by structuralizing behavior detection pictures (line crossing detection, intrusion detection) or human body detection pictures (PanoVu PT Series Target Capture Camera).



Video Structuralization

Realize the human body search by analyzing human bodies in video and extracting the human body appearance.

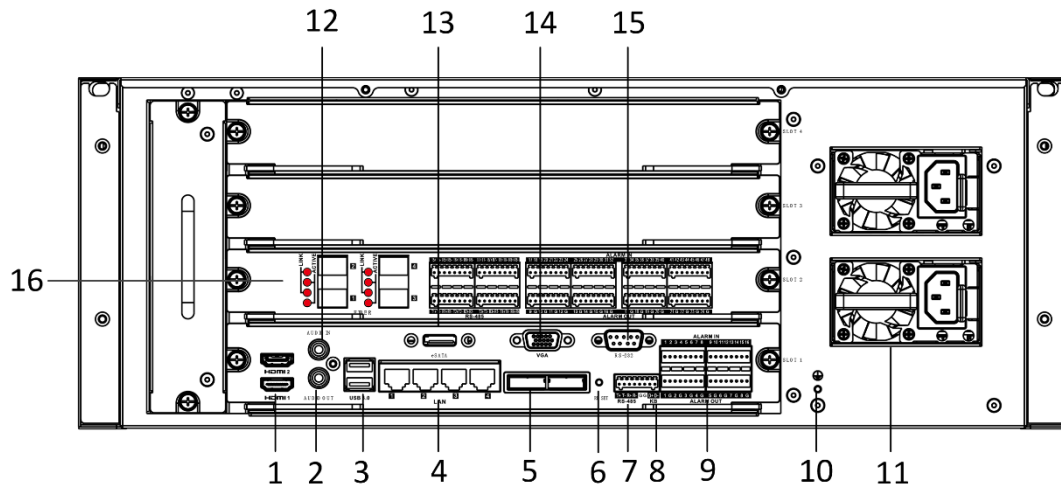


Specifications

Model		iDS-96064NXI-I16	iDS-96128NXI-I16	iDS-96128NXI-I24
Smart analysis	Face detection and analytics	Face picture comparison, human face capture, face picture search		
	Face picture library	Up to 32 face picture libraries and 300,000 face pictures.		
	Face picture comparison	16-ch face picture comparison alarm	32-ch face picture comparison alarm	
	Performance of Face detection and analytics	8-ch human face capture (HD IP camera, up to 4 MP)		
	Human body detection and analytics	Behavior alarm, human body picture structuralization, and human body picture search		
	Human body picture structuralization	Search by human body picture		
	Video structuralization applications	Search human body by appearance or by similarity, search vehicle by appearance		
	Video structuralization	4-ch real-time video structuralization, 16-ch historical video structuralization	8-ch real-time video structuralization, 32-ch historical video structuralization	
Video/Audio input	IP video input	64-ch	128-ch	
	Forwarding	128-ch	256-ch	
	Incoming bandwidth	400 Mbps	512 Mbps	
	Outgoing bandwidth	400 Mbps	512 Mbps	
Video/Audio output	HDMI output resolution	2-ch independent HDMI interface, 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 resolution	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		
	Audio output	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
	LCD output	7-inch LCD		
Decoding	Video decoding format	H.265+/H.265/H.264+/H.264/SVAC/MJPEG/MPEG4		
	Audio decoding format	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2		
	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		
	Decoding capability	5-ch@8 MP/10-ch@4 MP/20-ch@1080p/40-ch@720p		
Hard disk	SATA	16 SATA interfaces	24 SATA interfaces	
	eSATA	1 eSATA interface		
	miniSAS	2 miniSAS interfaces		
	Capacity	Up to 10 TB capacity for each HDD		
Disk array	Array type	RAID0, RAID1, RAID5, RAID6, RAID10		
External interface	Two-way audio	1-ch, RCA (2.0 Vp-p, 1 kΩ)		
	Network interface	4, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface		
	Serial interface	RS-232; RS-485 (full-duplex); Keyboard		
	USB interface	Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0	Front panel: 1 × USB 2.0; Rear panel: 2 × USB 3.0	

Extension board	Alarm in/out	16/8		
	Slot	2	3	
	Extension board	Not supported		
	Smart analysis board	1	2	
General	Power supply	100 to 240 VAC, redundant power supplies		
	Rated Power	550 W		
	Consumption (without hard disk)	≤ 140 W		
	Working temperature	0 °C to 50 °C (32 °F to 122 °F)		
	Working humidity	10% to 90 % RH (no freezing and no condensation)		
	Storage temperature	-10 °C to +70 °C (14 °F to 158 °F)		
	Storage humidity	5% to 90 % RH (no freezing and no condensation)		
	Chassis	19-inch rack-mounted 3U chassis	19-inch rack-mounted 4U chassis	
	Dimensions (W × D × H)	442 × 494 × 146 mm (17.4 × 19.4 × 5.7 inch)	447 × 528 × 172mm (17.6 × 20.8 × 6.8 inch)	
	Weight (without hard disk)	≤ 20 kg (44 lb)		≤ 23 kg (50.7 lb)

Physical Interfaces

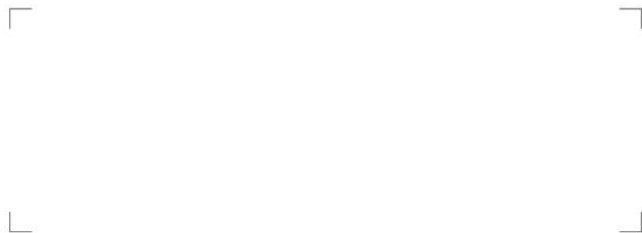


No.	Name	No.	Name
1	HDMI1/HDMI2 interface	9	Alarm input/output
2	Audio output	10	Ground
3	USB 3.0 interface	11	Power supply
4	LAN1/LAN2 network interface	12	Audio input
5	MiniSAS interface	13	eSATA interface
6	Reset button	14	VGA interface
7	RS-485 interface	15	RS-232 interface
8	Keyboard interface	16	Extension board (only available for Figure 1-4 iDS-9600NXI-I24 Series)

Available Models

iDS-96064NXI-I16, iDS-96128NXI-I16, iDS-96128NXI-I24

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