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COG-NVR-4K-DL-32BB

32 CHANNEL 1.5U 4K NETWORK VIDEO RECORDER



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

This network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

With build-in deep learning module, these products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition and perimeter protection. By applying deep learning artificial intelligence, the NVR allows users to focus on what matters most, improves event response time and helps make video actionable.

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS).

Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

- 32 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 16 Channel perimeter protection
- Up to 4 Channel video stream face recognition
- Up to 24 face pictures /sec processing
- Up to 20 face databases with 100,000 face images in total
- 1-8 PoE Ports support ePoE & EoC



Real Time Face Recognition

Video stream & picture stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

Common/Stranger Mode

NVR5000-I supports common and stranger mode. In stranger mode, when NVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

Al Search

Support seach by metadata of human and vehicles. Support uploading face pictures to NVR and compare them with recorded faces in NVR by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

ANPR

Automatic Number Plate Recognition available for convenient entrance/ exit management. Support license plate recognition, black/white list import/export, add/delete B/W list number, search result from recorded video.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search algorithm.

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Technical Specification		Video Detection and Alarm	
System		Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips
Main Processor	Multi-core embedded processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change
Operating System	Embedded LINUX	Alarm input	16 Channel
Perimeter Protection		Relay Output	6 Channel
Performance 16 channel, 10 IVS rules for each channel		Playback and Backup	
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Sync Playback	1/4/9/16
AI Search	Search by target classification (Human, Vehicle)	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Face Recognition		Backup Mode	USB Device/Network/eSATA Device
Performance	Max 24 face pictures /sec processing (modeling and comparing)	Third-party Suppor	t
	4 channel video stream face recognition / 16 channel picture stream face recognition (with FD camera)	Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.	Network	
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Interface	1 RJ-45 Ports (10/100/1000Mbps)
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture.	PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC
Database Application	Each database can be applied to video channels independently.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.		
Metadata		Max. User Access	128 users
Face	Gender, age, glasses, beard, mask.	Smart Phone	iPhone, iPad, Android
Vehicle	Vehicle color, vehicle model, vehicle logo, plate color, vehicle decorations, call, seatbelt.	Interoperability	ONVIF 2.4, SDK, CGI
Human Body	Tops style,tops color,bottom style,bottom color, hat, bag.	Storage	
Non-motor Vehicle	Type, color, people number.	Internal HDD	4 SATA III Ports, Up to 8 TB capacity for each HDD
Al Search	Support search target video by metadata.	eSATA	1 eSATA
Audio and Video	22.61		Lestin
IP Camera Input	32 Channel	Auxiliary Interface	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	USB	3 USB Ports (2 Rear USB 3.0 , 1 Front USB 2.0)
Display	2.1/24/1/4.1/64	RS232	1 Port, for PC Communication and Keyboard
Interface	2 HDMI, 1 VGA HDMI1/VGA: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	RS485	1 Port, for PTZ Control
Resolution	HDMI2: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768		
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)		
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16		
Recording			
Bandwidth	320Mbps (160Mbps when Al function enabled)		
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG		
Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.		
Record Mode	Manual, Schedule (Continuous, MD(Motion Detection) , Alarm, IVS)		
Record Interval	$1^{\sim}120$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec		



Dimensions (mm)





