CCTVIreland.ie



COG-NVR-4K-2-16BB

16 CHANNEL 1U POE AI 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, 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. Besides, the NVR supports input, recording and transmission functions. 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, it 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. Improves alarm accuracy.

- 16 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 4 Channel perimeter protection
- Up to 2 Channel video stream face recognition/8 channel picture stream face recognition (with FD camera)
- Up to 12 face pictures /sec processing
- Up to 10 face databases with 20,000 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, address, certificate type, certificate No., countries, regions and state can be added to each face picture.

Common/Stranger Mode

This NVR 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. Supports uploading face pictures to NVR to compare them with recorded faces in NVR by similarity. Enables operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appears.

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 results from recorded video.

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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	4 Channel
Perimeter Protection		Alarm Output	2 Channel
Performance	4 channel, 10 IVS rules for each channel	Playback and Backu	р
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Sync Playback	1/4/9/16
Al 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
Max 12 face pictures /sec processing		Third-party Support	
Performance	2 channel video stream face recognition / 8 channel picture stream face recognition (with FD camera)	Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, Xunmei, Samsung, Sanyo, Sony, Watchnet and more
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Network	
Al 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 Port (10/100/1000Mbps)
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries®ions and state can be added to each face	PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC
Database Application	picture. 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 Center, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm	Max. User Access	128 users
Audio and Video	Out, PTZ Activation, etc.	Mobile App	iPhone, iPad, Android
IP Camera Input	16 Channel	Interoperability	ONVIF (Profile S), SDK, CGI
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	Storage	
Display		Internal HDD	2 SATA III Ports, Up to 8 TB capacity for each HDD
Interface	1 HDMI, 1 VGA	eSATA	NA
Resolution	HDMI/VGA: 3840 x 2160, 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	Auxiliary Interface	
Decoding Capability	2-ch@8MP(30fps), 8-ch@1080P(30fps)	USB	2 USB Ports (1 Rear USB 2.0 , 1 Front USB 2.0)
Multi-screen Display	1/4/8/9/16	RS232	1 Port, for PC Communication and Keyboard
Recording		RS485	NA
Bandwidth	200Mbps (80Mbps when AI function enabled, based on private protocol)		
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG		
Resolution	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)



