

NVR-E16/16P-2VC

16Channel 1U 2HDDs 16PoE Al Network Video Recorder



New AI EmPower is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, AI provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

New NVR 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, NVR5000-I series 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, NVR5000-I 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.

Face Recognition

The Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

SMD Plus

With intelligent algorithm, The Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

- 16 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 22 face pictures/sec processing
- Up to 20 face databases with 100,000 face images in total
- 1-8 PoE Ports support ePoE & EoC



Video Metadata

With deep learning algorithm, The Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

ANPR by Camera

With deep learning algorithm, The ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

People Counting by Camera

With deep learning algorithm, The People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Stereo Analysis by Camara

With deep learning algorithm, The People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.



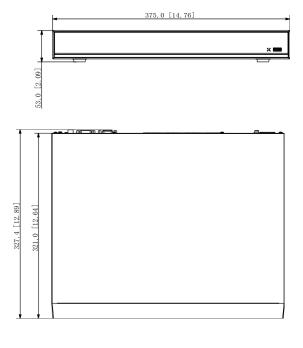
Technical Specificati	on	Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec	
System		Video Detection and	Video Detection and Alarm	
Main Processor	Multi-core embedded processor	Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips	
Operating System Perimeter Protection	Embedded LINUX	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change	
Performance	16 channel, 10 IVS rules for each channel	Alarm input	4 Channel	
Object classification	Human/Vehicle secondary recognition for tripwire and	Relay Output	2 Channel	
Al Search	intrusion Search by target classification (Human Vehicle)	Playback and Backup		
Al Search Search by target classification (Human, Vehicle) Face Recognition		Sync Playback	1/4/9/16	
race necognition	Max 22 face pictures/sec processing (modeling and	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)	
Performance	comparing) 4 channel video stream face recognition/16 channel	Backup Mode	USB Device/Network	
	picture stream face recognition (with FD camera)	Third-party Support		
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif,	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target faceimage.		Calibri aliu more	
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.	Network	4.21.47.20	
		Interface	1 RJ-45 Ports (10/100/1000 Mbps) 16 ports (IEEE802.3af/at)	
Database Application	Each database can be applied to video channels independently.	PoE	1-8 ports (IEEE802.5al/at/	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarr Server, IP Search (Support EmPower IP camera, DVR,	
Metadata		Max. User Access	NVS, etc.), P2P	
Face	Gender, age, glasses, beard, mouth mask, expression.	Mobile App	iPhone, iPad, Android	
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region.	Interoperability	ONVIF 2.4, SDK, CGI	
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella.	Storage	5.VIII 21.1, 55.1, 65.1	
Non-motor Vehicle	Type, color, number of passengers, helmet.		2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature	
Al Search	Support search target video by metadata.	Internal HDD		
Audio and Video		eSATA	N/A	
IP Camera Input	16 Channel	Auxiliary Interface		
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	USB	2 USB Ports (1 Rear USB 3.0, 1 Front USB 2.0)	
Display		RS232	1 Port, for PC Communication and Keyboard	
Interface	1 HDMI, 1 VGA	RS485	1 Port, for PTZ Control	
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Electrical		
Decoding Capability	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 4-ch@8MP (30fps), 16-ch@1080P (30fps)	Power Supply	Single, AC100V-240V, 50-60 Hz	
		Power Consumption	NVR: <15.6W (Without HDD)	
Multi-screen Display 1/4/8/9/16		Tower consumption	PoE: Max 25.5W for single port 130W total rated power, 80% control for protection	
Recording	220 Mbps (160 Mbps when Alfunction anabled)	Fan	Smart fan, automatically adjust running speed	
Bandwidth	320 Mbps (160 Mbps when Al function enabled)	Environmental		
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP,	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa	
Resolution	720P, D1 etc.	Storage Conditions	0°C to +40°C (+32°F to +104°F), 30-85% RH	
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)	Construction		



Dimensions	1U, 375.0 mm × 327.4 mm × 53.0 mm (14.76" × 12.89" × 2.09")		
Net Weight	2.70 kg (6.0 lb) (without HDD)		
Gross Weight	4.00 kg (8.8 lb) (without HDD)		
Certifications			
CE	EN55032, EN55024, EN50130-4, EN60950-1		
FCC	Part 15 Subpart B, ANSI C63.4-2014		
UL	UL 60950-1		

Ordering Information				
Туре	Model	Description		
16 Channel AI NVR	NVR-E16/16P-2VC	16 Channel 1U 16PoE AI Network Video Recorder		

Dimensions (mm[inch])



Panels

