



# DHI-NVR5216-16P-I

16Channel 1U 16PoE WizMind Network Video Recorder



Launched by Dahua Technology, Dahua WizMind 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, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

#### System Overview

Dahua new NVR5000-I 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**

Dahua 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, Dahua Smart Motion Detection technology can

- 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
- $\cdot$  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



categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### Video Metadata

With deep learning algorithm, Dahua 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, Dahua 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, Dahua 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 and scene 3-dimensional information, Dahua Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.



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### **Technical Specification**

System				
Main Processor	Multi-core embedded processor			
Operating System	Embedded LINUX			
Perimeter Protection				
Performance	16 channel, 10 IVS rules for each channel			
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion			
Al Search	Search by target classification (Human, Vehicle)			
Face Recognition				
Performance	Max 22 face pictures/sec processing (modeling and comparing)			
	4 channel video stream face recognition/16 channel picture stream face recognition (with FD camera)			
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.			
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.			
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.			
Database Application	Each database can be applied to video channels independently.			
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.			
Metadata				
Face	Gender, age, glasses, beard, mouth mask, expression.			
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region.			
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella.			
Non-motor Vehicle	Type, color, number of passengers, helmet.			
AI Search	Support search target video by metadata.			
Audio and Video				
IP Camera Input	16 Channel			
Two-way Talk	1 Channel Input, 1 Channel Output, RCA			
Display				
Interface	1 HDMI, 1 VGA			
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720			
Decoding Capability	4-ch@8MP (30fps), 16-ch@1080P (30fps)			
Multi-screen Display	1/4/8/9/16			
	1,10,5120			
Recording	220 Mans (100 Mans when Alfer store and but			
Bandwidth	320 Mbps (160 Mbps when AI 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	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post- record: 10–300 sec			
Video Detection and Alarm				
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips			
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change			
Alarm input	4 Channel			
Relay Output	2 Channel			
Playback and Backup				
Sync Playback	1/4/9/16			
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)			
Backup Mode	USB Device/Network			
Third-party Support				
Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more			
Network				
Interface	1 RJ-45 Ports (10/100/1000 Mbps)			
PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC			
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			
Max. User Access	128 users			
Mobile App	iPhone, iPad, Android			
Interoperability	ONVIF 2.4, SDK, CGI			
Storage				
Internal HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature			
eSATA	N/A			
Auxiliary Interface				
USB	2 USB Ports (1 Rear USB 3.0, 1 Front USB 2.0)			
RS232	1 Port, for PC Communication and Keyboard			
RS485	1 Port, for PTZ Control			
Electrical				
Power Supply	Single, AC100V-240V, 50-60 Hz			
Power Consumption	NVR: <15.6W (Without HDD)			
Power Consumption	PoE: Max 25.5W for single port 130W total rated power, 80% control for protection			
Fan	Smart fan, automatically adjust running speed			
Environmental				
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa			
Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH			
Construction				

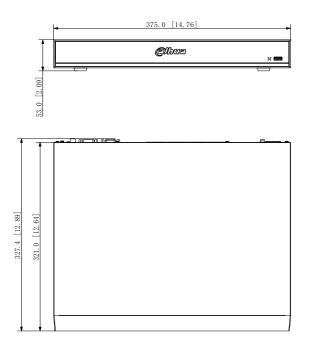
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Dimensions	1U, 375.0 mm × 327.4 mm × 53.0 mm (14.76" × 12.89" × 2.09")	
Net Weight	2.70 kg (6.0 lb) (without HDD)	
Gross Weight	4.00 kg (8.8 lb) (without HDD)	
Certifications		
CE	EN55032, EN55024, EN50130-4, EN60950-1	
FCC	Part 15 Subpart B, ANSI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

## **Ordering Information**

Туре	Model	Description
16 Channel WizMind NVR	DHI-NVR5216-16P-I	16 Channel 1U 16PoE WizMind Network Video Recorder

# Dimensions (mm[inch])



### Panels

