



# DHI-NVR2216-I2

## 16 Channel 1U 2HDDs WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

## **Series Overview**

This AI network video recorder is a highly cost-effective product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, and remote management and control. This product is suitable for face detection and recognition at entrances and exits, and perimeter protection of people and vehicles.

#### **Functions**

#### **Face Detection**

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

#### **Face Recognition**

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

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Max. decoding capability:  $6 \times 1080p@30$  fps. Supports adaptive decoding
- 1-channel face detection and recognition (Al by NVR); 1-channel perimeter protection (Al by NVR); up to 10 face databases and 5,000 face images; 4-channel SMD Plus (Al by NVR);
- Al by camera: Face detection and recognition, perimeter protection, and SMD Plus
- Connected to the third-party network cameras
- · Security baseline 2.1













#### **Perimeter Protection**

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

#### **SMD Plus**

With intelligent algorithm, Dahua 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.

### AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces 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.

#### **Smart Fan**

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

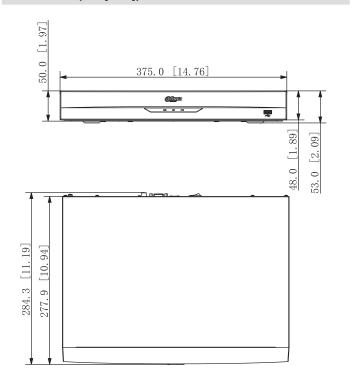
Technical Specification	on	Vic	deo Output	1 × VGA, 1 × HDMI (simultaneous)
System		Mu	ulti-screen Display	1, 4, 8, 9, 16 views
Main Processor	Industrial-grade embedded processor	Thi	ird Party Camera Access	Onvif
Operating System	Embedded Linux	Сс	ompression	
Operation Interface	Web; local GUI	Vid	deo	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Al		Au	dio	PCM; G711A; G711U; G726
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus	Ne	etwork	
Al by Device	Face detection; face recognition; perimeter protection; SMD Plus	Ne	twork Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; IP Search (Supports Janua IP camera, DVR, NVS, etc.); P2P;Auto
Perimeter Protection			- hills Dhana Assass	Registration
Perimeter Performance Al by Device(Number of	1		obile Phone Access	Android; iOS
Channels)  Perimeter Performance of			eroperability	ONVIF (profile T; profile S; profile G); CGI; SDK
Al by Camera (Number of Channels)	4		owser	Chrome; IE9 or later; Firefox
Face Detection			ecord Playback	
	6 attibutes: Gender; age group (6); glasses; expressions	Mu	ulti-channel Playback	Up to 16 channels
Face Attributes	(8); mouth mask; beard	Red	cord Mode	Manual record; alarm recordings; motion detection recordings; scheduled recordings
Face Detection Performance of AI by	1 (up to 12 face images/second)	Sto	orage	Local HDD and network
Device (1080P) (Number of Channels)	1/46 to 12 1900 1119000000000000000000000000000	Вас	ckup	USB device
Face Detection Performance of AI by Camera (Number of Channels)	5	Pla	ryback Function	1. Play; pause; stop; fast forward; fast backward; rewind play by frame 2. Full screen; backup (vide clip/file); partially zom in; audio on/off
Face Recognition		Ala	arm	
Face Database Capacity	Up to 10 face databases with 5,000 images	Ge	neral Alarm	Motion detection; privacy masking; video loss; PIR alarm IPC alarm
Face Recognition Performance of AI by Device (1080P) (Number	1 (up to 4 face images/second)	An	omaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; cyber security exception
of Channels)		Int	elligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); IVS; SMD Plus
Face Recognition Performance of AI by Camera (Number of	5	Ala	arm Linkage	Recording; snapshot; buzzer; log; preset; email; tour
Channels)		Ex	ternal Port	
SMD Plus		HD	DD	2 SATA ports, up to 10 TB. The maximum HDD capacity varies with environment temperature
SMD Plus by Device	4	US	В	1 × front USB2.0; 1 × back USB2.0
SMD Plus by Camera	6-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away	HD	PMI	1 (max. resolution: 4K)
Video		VG	iA .	1
Access Channel	16 channels	Ne	twork	1 × RJ-45, 10/100/1,000 Mbps
	Al off: Access: 144 Mbps; Storage: 144 Mbps; Forward: 72 Mbps Al on: Access: 72 Mbps; Storage: 72 Mbps; Forward: 36 Mbps	RC	A Input	1
Network Bandwidth		RC	A Output	1
		Ge	eneral Parameter	
Resolution	12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	Pov	wer Supply	12 V DC, 4 A
Decoding Capability	Al disabled: 1-channel 12MP@30 fps; 1-channel 8MP@30 fps; 2-channel 5MP@30 fps; 3-channel 4MP@30 fps; 6-channel 1080p@30 fps Al enabled: 1-channel 8MP@30 fps; 1-channel 5MP@30 fps; 2-channel 4MP@30 fps; 4-channel 1080p@30 fps	Pov	wer Consumption	Total output of NVR is ≤ 10 W (without HDD)
		Ne	t Weight	1.51 kg (3.33 lb)
		Gro	oss weight	2.76 kg (6.08 lb)

## Wiz Sense | DHI-NVR2216-I2

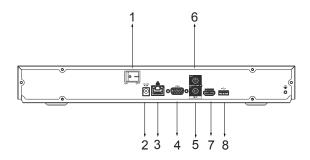
Product Dimensions	375 mm × 284.3 mm × 53 mm (14.76" × 11.19" × 2.09") (W × L × H)		
Package Dimensions	141 mm × 433 mm × 366 mm (5.55" × 17.05" × 14.41") (W × L × H)		
Operating Temperature	−10 °C to +55 °C (+14 °F to +131 °F)		
Storage Temperature	0 °C to 40 °C (32 °F to 104 °F)		
Operating Humidity	10%-93%		
Storage Humidity	30%-85%		
Operating Altitude	3,000 m (9,842.52 ft)		
Installation	Desktop		
Certifications	FCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014 CE-LVD:EN 62368-1:2014+A11:2017		

Ordering Information					
Туре	Model	Description			
16 Channel WizSense NVR	DHI-NVR2216-I2	16 Channel 1U WizSense Network Video Recorder			

## Dimensions (mm[inch])



## **Panels**



- 1 Power Switch
- 2 DC 12V Power Input
- 3 Network Port
- 4 VGA Port
- 5 AUDIO IN, RCA Connector
- AUDIO OUT, RCA Connector
- 7 HDMI Port
- 8 USB Port