

DHI-IVSS7016DR

3U 16HDD AI Network Video Recorder



- Intel quad-core processor
- · Max 512Mbps incoming bandwidth
- · 256 Channel IP video access
- Supports RAID 0/1/5/6/10
- SAS3.0 for storage extension
- · 3HDMI/1VGA video output
- · Redundant power

Deep · Sense

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

The complete lineup of Dahua DeepSense includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of Al allows devices to perceive the environment and understand the world in a better way.

Functions

Real Time Face Detection&Recognition (with AI camera)

Show real time face detection and recognition result from Al camera. Record faces with structured data. Facial feature filtering while real time display, only show faces with target features. Facial features including gender, age, expression, etc. Configurable settings for face detection and recognition events to trigger alarm, buzzer, snapshot, record, etc.

System Overview

Dahua IVSS goes beyond the ordinary NVR products. It is an Intelligent Video Surveillance Server combines video management functions with traditional video storage operations in one device. Besides the basic functions as network video recorder, IVSS is integrated with features such as face detection, face recognition for different business and industrial applications. Allowing users to focus on what matters most, improve event response time and help make video actionable.

An all new UI design supports device operation and maintenance management, improving the value and experience of surveillance view, and servicing the era of security big data.



Tachnical Specifics	ation.	Third-party Support	
Technical Specification			AVIC Passagaia Camu eta
System	1.10	Third-party Support	AXIS, Panasonic, Sony, etc.
Main Processor	Intel Quad-core Processor	Network	
Memory	16GB, up to 64GB	Interface	4 RJ-45 Ports (10/100/1000Mbps)
Operating System	Embedded LINUX	Optional Interface	4 Giga Optical Fiber Interface
Artificial Intelligence (with AI camera)		Network Port Mode	Independent Ethernet Ports, Load Balance, Fault- Tolerance, Link Aggregation
Face Recognition	Show face recognition result from Al camera	Network Function	HTTP, HTTPS, TCP/IP, UDP, RTSP, IPv4, NTP, DHCP, DNS, IP Filter, IP Search (Support Dahua IP camera,
Face Detection	Show face detection result from Al camera	London and Albert	DVR, etc.), P2P
Metadata	Record sturctured data of gender, age, expression, glasses, moustache, mouth mask information.	Interoperability	ONVIF 2.4, SDK
Trigger Events	Buzzer, snapshot, recording, etc.	Storage	
Audio and Video		Internal HDD	16 SAS/SATA HDDs, Up to 10 TB capacity for each HDD, Independent HDD bracket, hot-swap
IP Camera Input	256 Channel	HDD Mode	Single, Raid 0/1/5/6/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
Two-way Talk	1×3.5 mm audio input, 1×3.5 mm audio output	eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
Display		SAS	2 SAS3.0 Ports
Interface	3 HDMI, 1VGA	Auxiliary Interface	
Resolution	HDMI1/2/3:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024,	Front Cover	Support Hot-swap, 7-inch HD LCD (1920 \times 1080 , 1280 \times 1024)
	1280 × 720	USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
Decoding Capability	24-ch@1080P(30fps)	RS232	1 Port, for PC Communication
Multi-screen Display	Up to 36 split for each screen	RS485	1 Port
OSD	Camera title, Time, Motion detection, Recording		Troit
Recording		Electrical	
Bandwidth	450Mbps	Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Hot-swap, Redundant
Compression	H.265/H.264/MJPEG/MPEG4	Power Consumption	<70W (Without HDD)
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, etc.	Fan	Dual-ball bearing fans, Hot-swap
Record Mode	Schedule (Continuous, Event)	Environmental	
Video Detection and Alarm		Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F), 86 ~ 106kpa
Trigger Events	Recording, Snapshot, Buzzer, etc.	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Video Detection	Motion Detection, MD Zones: 396 (22 × 18); Tampering	Construction	
Alarm input	16 Channel	Dimensions	3U, 485mm x 539.4mm x 133.2mm (19.1" x 21.24" x 5.2")
Relay Output	8 Channel	Net Weight	17.45kg (38.47 lb) (without HDD)
Playback and Backup		Installation	Standard 19-inch Rack-mounted
Sync Playback	Up to 16ch sync playback, 128Mbps playback bandwidth	Certifications	
Search Mode	Time /Date, Video Detection, Face and Exact Search (accurate to second)	CE	EN55032, EN55024, EN50130-4, EN60950-1
Backup Mode	USB Device/Network	FCC	Part 15 Subpart B, ANSI C63.4-2014
		UL	UL 60950-1

DeepSense series | DHI-IVSS7016DR

Ordering Information			
Туре	Part Number	Description	
IVSS	DHI-IVSS7016	3U 16HDD Intelligent Video Surveillance Server	
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Relevant	DH-IPC-HF8242F-FD	2MP Starlight Face Detection Box Network Camera	
Products	DH-IPC-HF8242F-FR	2MP Starlight Face Recognition Box Network Camera	

Relevant Products



Dimensions(mm)







