

DHI-IVSS7024DR-8T 4U 24HDD AI Network Video Recorder



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 AI allows devices to perceive the environment and understand the world in a better way.

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.

With build-in deep learning module, IVSS series products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face analysis, comparison, retrieval, storage, and management. By applying deep learning artificial intelligence, IVSS allow 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.

- Intel quad-core processor
- Max 512Mbps incoming bandwidth
- · 256 Channel IP video access
- Up to 32 Channel video stream face recognition
- Up to 80 Channel picture stream face recognition
- Regular/stranger mode
- Search by image
- Face database management
- Supports RAID 0/1/5/6/10
- SAS3.0 for storage extension
- 3HDMI/1VGA video output
- Redundant power



Functions

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 structured data. Facial feature filtering while real time display, only show faces with target features.

Regular/Stranger Mode

IVSS support regular and stranger mode. In stranger mode, when IVSS detect a stranger 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.

Efficient Search

Support uploading face pictures to IVSS and compare them with recorded faces in IVSS 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.

Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

DeepSense series | DHI-IVSS7024DR-8T

Technical Specification

System		
Main Processor	Intel Quad-core Processor	
Memory	16GB, up to 64GB	
Operating System	Embedded LINUX	

Artificial Intelligence

Relay Output

8 Channel

Artificial intelligence			
Face Recognition	32 channel video stream face recognition / 80 channel picture stream face recognition (with FD camera)		
Performance	80 face pictrues /sec processing (modeling and comparing)		
Metadata	Sturctured data of gender, age, expression, glasses, moustache, mouth mask information.		
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.		
Trigger Events	Buzzer, snapshot, recording, etc.		
Search by Image	Up to 10 target face images search at same time. Support similarity threshold 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.		
Audio and Video			
IP Camera Input	256 Channel		
Two-way Talk	1 × 3.5mm audio input, 1 × 3.5mm audio output		
Display			
Interface	3 HDMI, 1VGA		
Resolution	HDMI1/2/3:3840 × 2160,1920 × 1080,1280 × 1024, 1280 × 720		
	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Decoding Capability	24-ch@1080P(30fps)		
Multi-screen Display	Up to 36 split for each screen		
OSD	OSD Camera title, Time, Motion detection, Recording		
Recording			
Bandwidth	dth 450Mbps		
Compression	mpression H.265/H.264/MJPEG/MPEG4		
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, etc.		
Record Mode	Schedule (Continuous, Event)		
Video Detection and Alarm			
Trigger Events	Recording, Snapshot, Buzzer, etc.		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18); Tampering		
Alarm input	16 Channel		

Playback and Backup Up to 16ch sync playback, 128Mbps playback Sync Playback bandwidth Time /Date, Video Detection, Face and Exact Search Search Mode (accurate to second) Backup Mode USB Device/Network Third-party Support Third-party Support AXIS, Panasonic, Sony, etc. Network Interface 4 RJ-45 Ports (10/100/1000Mbps) **Optional Interface** 4 Giga Optical Fiber Interface Independent Ethernet Ports, Load Balance, Fault-Network Port Mode Tolerance, Link Aggregation HTTP, HTTPS, TCP/IP, UDP, RTSP, IPv4, NTP, DHCP, DNS, IP Filter, IP Search (Support Dahua IP camera, DVR, **Network Function** etc.), P2P ONVIF 2.4. SDK Interoperability Storage 24 SAS/SATA HDDs, Up to 10 TB capacity for each HDD, Internal HDD Independent HDD bracket, hot-swap Single, Raid 0/1/5/6/10(Enterprise-level HDDs are HDD Mode recommended), Support Global HDD Hot-spare 1 eSATA Port (Please contact technical engineer to eSATA confirm the compatible device) SAS 2 SAS3.0 Ports Auxiliary Interface Support Hot-swap, 7-inch HD LCD (1920 × 1080 , 1280 Front Cover × 1024) USB 4 USB Ports (2 USB 2.0, 2 USB 3.0) RS232 1 Port, for PC Communication RS485 1 Port Electrical AC100V ~ 240V, 50 ~ 60 Hz, Hot-swap, Redundant Power Supply Power Consumption <130W (Without HDD) Fan Dual-ball bearing fans, Hot-swap Environmental **Operating Conditions** 0°C~+45°C (+32°F~+113°F), 86~106kpa **Storage Conditions** -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH Construction 4U, 482.6mm x 543.4mm x 175mm (19" x 21.39" x Dimensions 6.89") Net Weight 20kg (44.09 lb) (without HDD) Installation Standard 19-inch Rack-mounted Certifications EN55032, EN55024, EN50130-4, EN60950-1 CE FCC Part 15 Subpart B, ANSI C63.4-2014

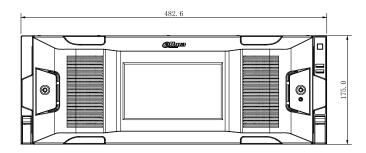
UL 60950-1

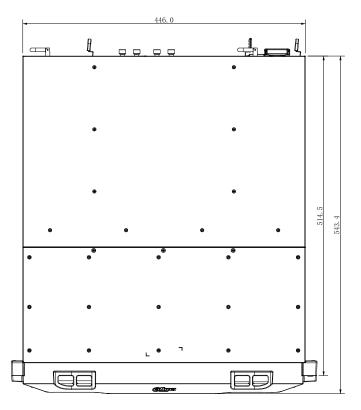
UL

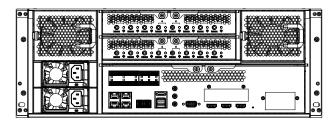
DeepSense series | DHI-IVSS7024DR-8T

Ordering Information		
Туре	Part Number	Description
IVSS	DHI-IVSS7024-8T	4U 24HDD Intelligent Video Surveillance Server
IVSS	DHI-IVSS7024DR-8T	4U 24HDD Intelligent Video Surveillance Server with Redundant Power & LCD screen
Relevant Products	DH-IPC-HF8242F-FD	2MP Starlight Face Detection Box Network Camera

Dimensions(mm)









Relevant Products

