

DHI-IVSS7012-2T

2U 12HDD AI Network Video Recorder





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 dual-core processor
- Max 400Mbps incoming bandwidth
- 128 Channel IP video access
- Up to 8 Channel video stream face recognition
- Up to 20 Channel picture stream face recognition
- Regular/stranger mode
- · Search by image
- Face database management
- Supports RAID 0/1/5/6/10
- · 3HDMI/2VGA video output
- · Optional 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.



Technical Specification		Playback and Backup	
System		Sync Playback	Up to 16ch sync playback, 64Mbps playback bandwidth
Main Processor	Intel Dual-core Processor	Search Mode	Time /Date, Video Detection, Face and Exact Search (accurate to second)
Memory	8GB, up to 32GB	Backup Mode	USB Device/Network
Operating System	Embedded LINUX	Third-party Support	
Artificial Intelligence		Third-party Support	AXIS, Panasonic, Sony, etc.
Face Recognition	8 channel video stream face recognition / 20 channel picture stream face recognition (with FD camera)	Network	,
Performance	20 face pictures /sec processing (modeling and comparing)	Interface	4 RJ-45 Ports (10/100/1000Mbps)
Metadata	Sturctured data of gender, age, expression, glasses, moustache, mouth mask information.	Network Port Mode	Independent Ethernet Ports, Load Balance, Fault-Tolerance, Link Aggregation
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.	Network Function	HTTP, HTTPS, TCP/IP, UDP, RTSP, IPv4, NTP, DHCP, DNS, IP Filter, IP Search (Support Dahua IP camera,
Trigger Events	Buzzer, snapshot, recording, etc.	1-4	DVR, etc.), P2P
Search by Image	Up to 10 target face images search at same time. Support similarity threshold set for each target face image.	Interoperability	ONVIF 2.4, SDK
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.	Storage	13 CAC/CATA LIDDS LIS to 10 TD composity for each
Butubuse Munugement		Internal HDD	12 SAS/SATA HDDs, Up to 10 TB capacity for each HDD, Independent HDD bracket, hot-swap
Database Application	Each database can be applied to video channels independently.	HDD Mode	Single, Raid 0/1/5/6/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
Audio and Video		eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
IP Camera Input	128 Channel	SAS	1 miniSAS Port
Two-way Talk	1 audio input, 2 audio output, RCA	Auxiliary Interface	
Display		USB	4 USB 3.0 Ports
Interface	3 HDMI, 2VGA	RS232	1 Port, for PC Communication
Resolution	HDMI1/2/3:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	RS485	1 Port
	VGA1/2: 1920 × 1080, 1280 × 1024, 1280 × 720	Electrical	
Decoding Capability	20-ch@1080P(30fps)	Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Hot-swap, Single (Optional Redundant Power Supply)
Multi-screen Display	Up to 36 split for each screen	Power Consumption	<110W (Without HDD)
OSD	Camera title, Time, Motion detection, Recording	Environmental	
Recording		Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F), 86 ~ 106kpa
Bandwidth	320Mbps	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Compression	H.265/H.264/MJPEG/MPEG4	Construction	
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, etc.	Dimensions	2U, 447.6mm x 558.2mm x 87mm (17.62" x 21.98" x 3.43") (without ear)
Record Mode	Schedule (Continuous, Event)	Net Weight	14kg (30.86 lb) (without HDD)
Video Detection and Alarm		Installation	Standard 19-inch Rack-mounted
Trigger Events	Recording, Snapshot, Buzzer, etc.	Certifications	2.5. a.d. a. 25 mon nack mounted
Video Detection	Motion Detection, MD Zones: 396 (22 \times 18); Tampering		ENESO22 ENESO24 ENEO120 4 ENEODED 1
Alarm input	16 Channel	CE	EN55032, EN55024, EN50130-4, EN60950-1
Relay Output	8 Channel	FCC	Part 15 Subpart B, ANSI C63.4-2014

DeepSense series | DHI-IVSS7012-2T

Ordering Information			
Туре	Part Number	Description	
IVSS	DHI-IVSS7012-2T	2U 12HDD Intelligent Video Surveillance Server	
IVSS	DHI-IVSS7012R-2T	2U 12HDD Intelligent Video Surveillance Server with Redundant Power	
Relevant Products	DH-IPC-HF8242F-FD	2MP Starlight Face Detection Box Network Camera	

Relevant Products



Dimensions(mm)







