

DHI-IVSS7016DR

3U 16HDD AI Network Video Recorder



- Intel quad-core processor
- Max 768Mbps 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

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. 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.

Functions

Real Time Face Detection&Recognition (with AI camera)

Show real time face detection and recognition result from AI 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.

Technical Specification

System

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

Artificial Intelligence (with AI camera)

Face Recognition	Show face recognition result from AI camera
Face Detection	Show face detection result from AI camera
Metadata	Record structured data of gender, age, expression, glasses, moustache, mouth mask information.
Trigger Events	Buzzer, snapshot, recording, etc.

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	Camera title, Time, Motion detection, Recording

Recording

Bandwidth	768Mbps
Compression	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
Relay Output	8 Channel

Playback and Backup

Sync Playback	Up to 16ch sync playback, 768Mbps playback bandwidth
Search Mode	Time /Date, Video Detection, Face and Exact Search (accurate to second)
Backup Mode	USB Device/Network

Third-party Support

Third-party Support	AXIS, Panasonic, Sony, etc.
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Network

Interface	4 RJ-45 Ports (10/100/1000Mbps)
Optional Interface	4 Giga Optical Fiber Interface
Network Port Mode	Independent Ethernet Ports, Load Balance, Fault-Tolerance, Link Aggregation
Network Function	HTTP, HTTPS, TCP/IP, UDP, RTSP, IPv4, NTP, DHCP, DNS, IP Filter, IP Search (Support Dahua IP camera, DVR, etc.), P2P
Interoperability	ONVIF 2.4, SDK

Storage

Internal HDD	16 SAS/SATA HDDs, Up to 10 TB capacity for each HDD, Independent HDD bracket, hot-swap
HDD Mode	Single, Raid 0/1/5/6/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
SAS	2 SAS3.0 Ports

Auxiliary Interface

Front Cover	Support Hot-swap, 7-inch HD LCD (1920 × 1080 , 1280 × 1024)
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS232	1 Port, for PC Communication
RS485	1 Port

Electrical

Power Supply	AC100V ~ 240V, 50 ~ 60 Hz, Hot-swap, Redundant
Power Consumption	<70W (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

Dimensions	3U, 485mm x 539.4mm x 133.2mm (19.1" x 21.24" x 5.2")
Net Weight	17.45kg (38.47 lb) (without HDD)
Installation	Standard 19-inch Rack-mounted

Certifications

CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL 60950-1

Ordering Information

Type	Part Number	Description
IVSS	DHI-IVSS7016	3U 16HDD Intelligent Video Surveillance Server
IVSS	DHI-IVSS7016DR	3U 16HDD Intelligent Video Surveillance Server
Relevant Products	DH-IPC-HF8242F-FD	2MP Starlight Face Detection Box Network Camera
	DH-IPC-HF8242F-FR	2MP Starlight Face Recognition Box Network Camera

Relevant Products



DH-HF8242F-FD/FR

Dimensions(mm)

