

DHI-IVSS7008

2U 8HDD AI Network Video Recorder



DeepSense

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.

- Intel dual-core processor
- Max 400Mbps incoming bandwidth
- 128 Channel IP video access
- Supports RAID 0/1/5/6/10
- 3HDMI/2VGA video output

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 Dual-core Processor |
| Memory | 8GB, up to 32GB |
| Operating System | Embedded LINUX |

Artificial Intelligence (with AI camera)

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|------------------|--|
| 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

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|-----------------|------------------------------------|
| IP Camera Input | 128 Channel |
| Two-way Talk | 1 audio input, 2 audio output, RCA |

Display

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|----------------------|---|
| Interface | 3 HDMI, 2VGA |
| Resolution | HDMI1/2/3 : 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 VGA1/2 : 1920 × 1080 , 1280 × 1024, 1280 × 720 |
| Decoding Capability | 20-ch@1080P(30fps) |
| Multi-screen Display | Up to 36 split for each screen |
| OSD | Camera title, Time, Motion detection, Recording |

Recording

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|-------------|--|
| Bandwidth | 320Mbps |
| 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

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|-----------------|--|
| 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

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|---------------|---|
| Sync Playback | Up to 16ch sync playback, 64Mbps 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. |
|---------------------|-----------------------------|

Network

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|-------------------|--|
| Interface | 4 RJ-45 Ports (10/100/1000Mbps) |
| 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

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|--------------|--|
| Internal HDD | 8 SATA HDDs, Up to 10 TB capacity for each HDD |
| 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) |

Auxiliary Interface

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|-------|--------------------------------------|
| USB | 4 USB Ports (2 USB 2.0 , 2 USB 3.0) |
| RS232 | 1 Port, for PC Communication |
| RS485 | 1 Port |

Electrical

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|-------------------|---------------------------|
| Power Supply | AC100V ~ 240V, 50 ~ 60 Hz |
| Power Consumption | <40W (Without HDD) |

Environmental

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|----------------------|---|
| 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

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|--------------|--|
| Dimensions | 2U, 439.7mm x 446.2mm x 90.8mm (17.32" x 17.57" x 3.57") |
| Net Weight | 8.55kg (18.85lb) (without HDD) |
| Installation | Standard 19-inch Rack-mounted |

Certifications

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|-----|--|
| CE | EN55032, EN55035, 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-IVSS7008 | 2U 8HDD 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)

