



DHI-IVSS7124

256CH 4U Intelligent Video Surveillance Server



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Dahua IVSS goes beyond ordinary NVR products. It is an Intelligent Video Surveillance Server that combines video management features with traditional video storage functions in one device. Aside from the basic functions of a network video recorder, IVSS also has a variety of powerful Al features, such as face recognition, video metadata and industrial algorithms to meet the needs of different scenes.

Functions

Face Recognition (with AI Camera)

Real-time Face Detection & Recognition with AI cameras, with results for real-time face detection and recognition being displayed on the AI camera. Faces are recorded through the use of video metadata, and facial features are filtered during real-time display, focusing on only displaying faces with target features. Facial features include gender, age, expression, and more. The linkage actions for face detection and recognition events are customizable, including alarm, buzzer, snapshot, video recording, and more.

- · 64-bit High-performance multi-core processor
- · 256-channel IP video access
- · Max 1280 Mbps/1280 Mbps incoming/recording bandwidth
- · 24 bays, supports RAID 0/1/5/6/10/50/60
- · 4 HDMI/1 VGA video output



AI IVS (with AI Camera)

With deep learning algorithms, AI IVS technology can recognize humans and vehicles accurately. In restricted areas (such as pedestrian and vehicle areas), there is a great reduction in the generation of false alarms of intelligent detection based on target type (such as tripwire, intrusion, parking detection, loitering detection, crowd gathering estimation and more).

Video Metadata (with AI Camera)

Video Metadata is attribute information extracted from a target for data retrieval. Currently, there are 4 main kinds of metadata in the security industry: Human face, human body, motor vehicle and nonmotor vehicle metadata.

ANPR

Automatic Number Plate Recognition is available for convenient entrance and exit management. This feature provides license plate recognition (working with Dahua ITC cameras), license plate comparison with blocklist and allowlist, vehicle database management, and vehicle records search.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique, ensuring immediate backup. In the event of a system failure, the sub server instantly takes over the main server to ensure no data is lost.

Smart Tracking

The automatic tracking PTZ feature automatically tracks moving targets in the field of view of the camera. This function is ideal for following objects as they move through airports, parking lots, city centers, and other scenes.

Face Recognition 1. Al by Camera: 160-channel 2 MP or 80-channel 4 MP face recognition with face recognition IPC; 2. Supports entries frequency alarm Vehicle License Plate Comparison License Plate Database Capacity 1. 50 plate databases with 500,000 plate numbers in total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Vehicle License Plate Comparison Supports 160-channel 2 MP or 80-channel 4 MP resolution with ITC Video Metadata 1. Al by Camera: Supports 160-channel 2 MP or 80-channel 4 MP resolution 2. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella,
Main Processor Operating System Embedded Linux OS Operating Interface Web (PCAPP), local GUI Al Applications Face detection; face recognition; video metadata (human, vehide; non-motor vehicle); IVS, license plate comparison, tripwire people counting, regional people counting, abmormal number of people in queue; smoking detection; call detection; face & body detection; SMD Face Detection 1. Al by Camera: Supports 150 channel 2 MP or 80 channel 4 MP resolution with face detection IP camera; 2, Supports 6 properties; Gender, age, glasses, expression, face mask, and beard Teach Pace Detection Face Database Capacity Face Recognition Face Recognition Face Recognition Face Recognition 1. Al by Camera: 160 channel 2 MP or 80 channel 4 MP resolution with face recognition in IPC Teach Patabase Capacity Vehicle License Plate Comparison Vehicle License Plate Supports a Go-channel 2 MP or 80 channel 4 MP resolution 2. Supports a Go-channel 2 MP or 80 channel 4 MP resolution 2. Operating Presolution 2. Supports a Go-channel 2 MP or 80 channel 4 MP resolution 3. Al by Camera: Supports 160 channel 2 MP or 80 channel 4 MP resolution 4. Al Py Camera: Supports 160 channel 2 MP or 80 channel 4 MP resolution 5. Operating Playback 5. Al December 2 MP or 80 channel 4 MP resolution 5. Operating Playback 5. Al Py Camera: Supports 160 channel 2 MP or 80 channel 4 MP resolution 6. Operating Playback 7. Al by Camera: Supports 160 channel 2 MP or 80 channel 4 MP resolution 7. Al Py Camera: Supports 160 channel 2 MP or 80 channel 4 MP resolution 8. Network Mode 8. Network M
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1. Al by camera: Supports 160-channel 2 MP or 80- channel 4 MP resolution
channel 4 MP resolution
IVS 2. Rules:Al by Camera: tripwire, intrusion, abandoned object, missing object, fast moving, crowd gathering, loitering, parking, and fence-crossing Playback Function 2. Full-sc zoom; A
Video Diagnosis Storage
1. Supports 1-channel tour detection Disk Group Yes
Video Diagnosis 2. Supports 13 detection items: blurry video, low contrast, video tampering, video jitter, abrupt image Network Disk iSCSI
change, image freeze, overexposure detection, video RAID RAIDO;R



	Supports record control (continuous, event-based,	
Record Management	scheduled, scheduled & event-based).	
Alarm		
General Alarm	Motion detection; tampering; local alarm; IPC external alarm; fire alarm; temperature alarm; temperature difference alarm; hot spot alarm; cold spot alarm	
Anomaly Alarm	IPC offline alarm; storage error; HDD full; IP conflict; MAC conflict; login lock; AI module temperature alarm; AI module offline; fan malfunction; no HDD; power exception	
Alarm Linkage	Record; snapshot (full image); alarm uploading; remote device alarm output; camera audio; buzzer; log; preset; email, and smart tracking. Disarming alarm linkage action by period or one-click sync disarm config with channels	
Port		
Audio Input	1 channel	
Audio Output	1 channel	
Alarm Input	16 channels	
Alarm Output	8 channels	
Disk Interface	24 slots, SATA. Max.20 TB/HDD,hot swapping, CMR, support enterprise-grade HDD	
eSATA	1 port	
RS-232	1 port, for debug or COM data transmission	
RS-485	1 port, control peripheral PTZ and so on. Supports various protocols.	
USB	4 ports. 2 USB2.0 ports at the front panel and 2 USB3.0 ports a the rear panel.	
HDMI	4 ports. HDMI 1 supports 4K output.	
VGA	1 port	
Network Port	4 RJ-45 ports 10/100/1000/2500Mbps self-adaptive Ethernet ports	
Power	Single supply	
Network Port Extension	4 RJ-45 ports $10/100/1000/2500$ Mbps self-adaptive Ethernet ports; 2×10 -GbE optical fiber ports (optional)	
General		
Disk Bay	24	
Form Factor	4U	
Power Supply	100–127/200–240 VAC, 50/60 Hz, 5/2.5 A	
Power Consumption	Working(all HDDs connected): ≤ 420 W (1433 BTU/hr) Working(without HDD): ≤ 150 W (512 BTU/hr) Rated: ≤ 800 W (2730 BTU/hr)	
Fan	Intelligent speed regulation fan	
Net Weight	23.00 kg (50.71 lb)	
Gross Weight	37.83 kg (83.40 lb)	
Product Dimensions	Chassis: 446 mm \times 490.6 mm \times 175 mm (17.56" \times 19.31" \times 6.89") (W \times D \times H) Max. size: 482.6 mm (with hanger) \times 518.0 mm \times 175 mm (19.00" \times 20.39" \times 6.89") (W \times D \times H)	

Packaging Dimensions	With packaging: 689 mm \times 779 mm \times 552 mm (27.13" \times 30.67" \times 21.73") (W \times D \times H)	
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °F)	
Operating Humidity	10%–90% (RH), non-condensing	
Operating Altitude	≤5,000 m (16,404.20 ft)	
Installation	Desktop; Rack	
Certifications	CE-LVD: EN 62368-1 CE-EMC: EN IEC 61000-3-2, EN 61000-3-3, EN 55032, EN 50130-4, EN 55035	

Ordering Information				
Туре	Model	Description		
Intelligent Video Surveillance Server	DHI-IVSS7124	256CH 4U Intelligent Video Surveillance Server		
Accessories (Optional)	DHI-RB100/LS	Server Cabinet Rail Bracket		
	NIC-EVS71-10G	OCH Nonstandard Network Card Module		

Accessories

Optional:



DHI-RB100/LS Server Cabinet Rail Bracket



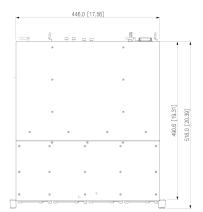
NIC-EVS71-10G OCH Nonstandard Network Card Module

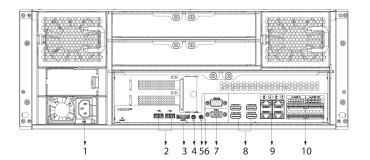
Dimensions (mm[inch])

Panels

mm [inch]







- 1 Power Input
- 2 USB Ports
- 3 eSATA Port
- 4 AUDIO OUT
- 5 AUDIO IN
- 6 RS-232 Port
- 7 VGA Ports
- 8 HDMI Ports
- 9 Networt Ports
- 10 Alarm In/Alarm Out