



DHI-IVSS7124

256CH 4U Intelligent Video Surveillance Server





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 Al 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 AI features, such as face detection and face recognition, to meet the needs of different scenes. Thanks to its built-in AI chip, advanced deep learning algorithms and video image metadata technology, IVSS supports a variety of AI functions, such as high-precision face recognition and perimeter protection. Together, they shorten the response time to events and make videos more interactive, allowing you to focus on what matters most. It also has an all new UI design that offers device operation and maintenance management, improving the quality of surveillance and serving the era of security big data.

Functions

- · 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



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.

Al IVS (with Al 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 non-motor 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.

Technical Specification	on				
System Main Processor	64-bit multi-core processor				
		A 1: 1201			
Operating System	Embedded Linux OS	Audio and Video			
Operating Interface	Web (PCAPP), local GUI	Access Channel			
Al Applications	Face detection; face recognition; video metadata	Network Bandwidth			
Al by Camera	(human; vehicle; non-motor vehicle); IVS; license plate comparison; tripwire people counting; regional people counting; abnormal number of people in queue; smoking detection; call detection; face & body	Resolution			
Face Detection	detection; SMD				
Face Detection	1. Al by Camera: Supports 160-channel 2 MP or 80-channel 4 MP resolutionl with face detection IP camera; 2. Supports 6 properties: Gender, age, glasses, expression, face mask, and beard	Decoding Capability			
Face Recognition	1.50 human face databases with 500,000 face pictures	Video Output			
Face Database Capacity	in total 2. 5 passerby databases with 500,000 face pictures in total The human face database and the passerby database share the total capacity and number of face images.	Multi-screen Display			
Face Recognition	Al by Camera: 160-channel 2 MP or 80-channel 4 MP face recognition with face recognition IPC; Supports entries frequency alarm	Third-party Camera Access			
Vehicle License Plate	e Comparison	Compression Standar	(
License Plate Database	1. 50 plate databases with 500,000 plate numbers in	Video Compression			
Capacity	total 2. Supports allowlist and blocklist	Audio Compression			
/ehicle License Plate	Supports 160-channel 2 MP or 80-channel 4 MP	Network	Network		
Comparison Video Metadata	resolution with ITC	Network Protocol	Network Protocol HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;P2P;		
video ivietadata	1. Al by Camera: Supports 160-channel 2 MP or 80-	Mobile Phone Access			
	channel 4 MP resolution	Interoperability	(
	2. Object type: Human body: Gender, age, sleeves length, top color,	Browser	Cł		
Video Metadata	bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, face mask Vehicle: Vehicle type, vehicle color, plate color, logo, calling, seatbelt, ornament Non-motorized Vehicle: Non-motor vehicle type, non-motor vehicle color, number of passengers, umbrella, rain coat, bag, sleeve, length, top color, hat, hair style, face mask	Network Mode	Mul		
		Recording Playback	Recording Playback		
		Multi-channel Playback	Max. 1		
		Record Mode	Search intellig		
IVS Analytics		Storage Method	Interna		
	1. Al by camera: Supports 160-channel 2 MP or 80- channel 4 MP resolution	Backup Method	HDD, p		
IVS	2. Rules: Al by Recorder: tripwire, intrusion, crowd gathering, loitering detection and parking detection Al by Camera: tripwire, intrusion, abandoned object, missing object, fast moving, crowd gathering, loitering, parking, and fence-crossing	Playback Function	1. Play Revers 2. Full zoom;		
Video Diagnosis		Storage			
Video Diagnosis	1. Supports 1-channel tour detection	Disk Group	Yes		
		Network Disk	iSCSI		

RAID	RAID0;RAID1;RAID5;RAID6;RAID10;RAID50;RAID60				
Record Management	Supports record control (continuous, event-based, 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; network security exception; 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, SATA3.0. Max.20 TB/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 $10/100/1000/2500M$ bps self-adaptive Ethernet ports; 2×10 -GbE optical fiber ports (optional)				
General					
Disk Bay	24				
Form Factor	4U				
Power Supply	100–127/200–240VAC, 50/60Hz, 7/3.5A				
Power Consumption	Working(all HDDs connected): ≤ 420W(1433 BTU) Working(without HDD): ≤ 150W(512 BTU) Rated: ≤ 800W(2730 BTU)				
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× 543.4 mm× 175 mm (17.51" × 20.57" × 5.24") (W × L × H) Max. size: 482.6 mm (with hanger) × 522.4 mm × 133.2 mm (19.09" × 20.57" × 5.24") (W × L× H)				

Packaging Dimensions	With packaging: 689 mm × 779 mm × 552 mm (27.13" × 30.67" × 21.73")(W × L × H)	
Operating Temperature	0°C to +45°C (+32 °F to +113 °F)	
Operating Humidity	10%–80% (RH), non-condensing	
Operating Altitude	≤5000 m (16404.20 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	Part Number	Description			
Intelligent Video Surveillance Server	DHI-IVSS7124	256CH 4U Intelligent Video Surveillance Server			

Accessories

Optional:

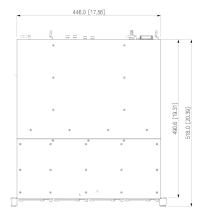


DHI-RB100/LS Server Cabinet Rail Bracket

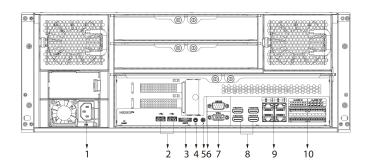
Dimensions (mm[inch])

mm [inch]





Panels



- 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