



DHI-IVSS7124DR

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.

Technical Specification		Video Diagnosis		
System		, and the second		
Main Processor	64-bit multi-core processor	Audio and Video		
Operating System	Embedded Linux OS	Access Channel		
Operating Interface	Web (PCAPP), local GUI	Network Bandwidth		
Al Applications				
	Face detection; face recognition; video metadata	Resolution		
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 detection; SMD	Decoding Capability		
Face Detection		Sessam _o capability		
Face Detection	Al by Camera: Supports 160-channel 2 MP or 80-channel 4 MP resolutionl with face detection IP camera; Supports 6 properties: Gender, age, glasses,			
Face Dana suiting	expression, face mask, and beard	Video Output		
Face Recognition Face Database Capacity	 1.50 human face databases with 500,000 face pictures 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		
		Third-party Camera Access		
Face Recognition	1. Al by Camera: 160-channel 2 MP or 80-channel 4 MP	Compression Standa	Compression Standard	
Face Recognition	face recognition with face recognition IPC; 2. Supports entries frequency alarm	Video Compression		
Vehicle License Plate Comparison		Audio Compression		
License Plate Database	1. 50 plate databases with 500,000 plate numbers in	Network	Network	
Capacity Vehicle License Plate	total 2. Supports allowlist and blocklist Supports 160-channel 2 MP or 80-channel 4 MP	Network Protocol		
Comparison	resolution with ITC	Mobile Phone Access		
Video Metadata		Interoperability		
	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, 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,	Browser	C	
			М	
		Network Mode	tol	
Video Metadata		Recording Playback	Recording Playback	
		Multi-channel Playback	Max. 2	
		Record Mode	Search intellig	
1) (C. A	face mask	Storage Method	Interna	
IVS Analytics		Backup Method	HDD, po	
IVS	Al by camera: Supports 160-channel 2 MP or 80-channel 4 MP resolution Rules: Al by Camera: tripwire, intrusion, abandoned object, missing object, fast moving, crowd gathering, loitering, parking, and fence-crossing	Playback Function	1. Play; Reverse 2. Full-s zoom;	
Video Diagnosis		Storage		
Video Diagnosis	1. Supports 1-channel tour detection	Disk Group	Yes	
	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;RAID	

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; 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	1+1 redundant power supply				
Network Port Extension	4 RJ-45 ports $10/100/1000/2500Mbps$ 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 (× 2)				
Power Consumption	Working(all HDDs connected): \leq 420 W (1433 BTU/hr) Working(without HDD): \leq 150 W (512 BTU/hr) Rated: \leq 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 543.4 mm \times 175 mm (17.56" \times 21.39" \times 6.89") (W \times D \times H) Max. size: 482.6 mm (with hanger) \times 543.4 mm \times 175 mm (19.00" \times 21.39" \times 6.89") (W \times D \times H)				

Packaging Dimensions	With packaging: 689 mm × 779 mm × 552 mm (27.13" × 30.67" × 21.73") (W × D × 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-IVSS7124DR	256CH 4U Intelligent Video Surveillance Server			
	DHI-RB100/LS	Server Cabinet Rail Bracket			
Accessories (Optional)	NIC-EVS71-10G	OCH Nonstandard Network Card Module			

Accessories

Optional:

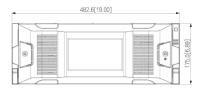


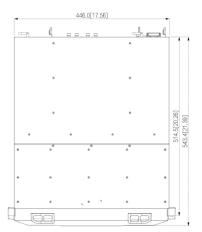
DHI-RB100/LS Server Cabinet Rail Bracket



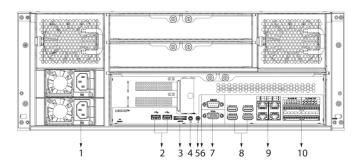
NIC-EVS71-10G OCH Nonstandard Network Card Module

Dimensions (mm[inch])





Panels



- 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