



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	n	Video Diagnosis	loss, noise	
System			interference fi	
Main Processor	64-bit multi-core processor	Audio and V		
Operating System	Embedded Linux OS	Access Channel	256-channel Incoming band	
Operating Interface	Web (PCAPP), local GUI	Network Bandw	dth Recording ban	
Al Applications			Outgoing band	
	Face detection; face recognition; video metadata	Resolution	32 MP;24 MP; MP;1080p;720	
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 Capab	2-channel 32 I 3-channel 24 I 8-channel 12 I 16-channel 8 I 13-channel 5 I	
Face Detection		0 1 ,	16-channel 4 N	
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,		21-channel; 3 15-channel 10 71-channel. 72	
Face Recognition	expression, face mask, and beard	Video Output	1-channel VGA HDMI 1 outpu	
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 Dis	1st Screen: Ma 2nd Screen: M 3rd Screen: M 4th Screen: M	
		Third-party Cam	Onvif, RTSP, So Canon, Samsu	
Face Recognition	1. Al by Camera: 160-channel 2 MP or 80-channel 4 MP face recognition with face recognition IPC;	Compression	Compression Standard	
race necognition	2. Supports entries frequency alarm	Video Compress	ion Smart H.265+;	
Vehicle License Plate Comparison		Audio Compress	ion G.711a;G.711u	
License Plate Database	1. 50 plate databases with 500,000 plate numbers in total	Network		
Capacity Vehicle License Plate	2. Supports allowlist and blocklist Supports 160-channel 2 MP or 80-channel 4 MP	Network Protoco	HTTP;HTTPS;T IP;IPv4;RTSP;U ;IPv6;UPnP;SN	
Comparison	resolution with ITC	Mobile Phone A	ccess DMSS	
Video Metadata		Interoperability	ONVIF (Profile	
	Al by Camera: Supports 160-channel 2 MP or 80-channel 4 MP resolution Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella,	Browser	Chrome; PCAP	
		Network Mode	Multiple-addre tolerance;Link	
Video Metadata	hat, hairstyle, direction, hold a baby, face mask	Recording P	Recording Playback	
	Vehicle: Vehicle type, vehicle color, plate color, logo, calling, seatbelt, ornament	Multi-channel P	ayback Max. 16-chann	
	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,	Record Mode	Search video of intelligent eve	
	face mask	Storage Method	Internal HDD	
IVS Analytics		Backup Method	HDD, peripher	
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; Pause; Reverse play; I 2. Full-screen; zoom; Audio o	
Video Diagnosis		Storage		
-	Supports 1-channel tour detection Supports 13 detection items: blurry video, low contrast, video tampering, video jitter, abrupt image change, image from a contrast, without the change image from the change image image.	Disk Group	Yes	
Video Diagnosis		Network Disk	iSCSI	
	change, image freeze, overexposure detection, video	RAID	RAIDO;RAID1;F	

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 $10/100/1000/2500M$ bps self-adaptive Ethernet ports; 2×10 -GbE optical fiber ports (optional)				
General					
Disk Bay	24				
Form Factor	4U				
Power Supply	100–127/200–240 VAC, 50/60 Hz, 5/2.5 A (× 2)				
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 × 543.4 mm × 175 mm (17.56" × 21.39" × 6.89") (W × D × H) Max. size: 482.6 mm (with hanger) × 543.4 mm × 175 mm (19.00" × 21.39" × 6.89") (W × D × 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:



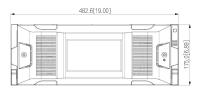
DHI-RB100/LS Server Cabinet Rail Bracket

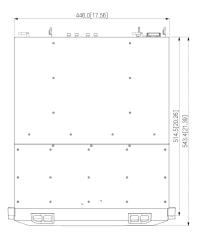


NIC-EVS71-10G OCH Nonstandard Network Card Module

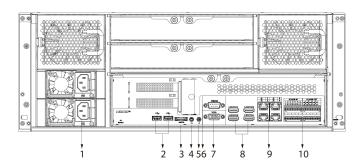
Dimensions (mm[inch])

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