



DHI-IVSS7108/H-V2

128CH 2U 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
- · 128-channel IP video access
- · Max 768 Mbps/768 Mbps incoming/recording bandwidth
- · 8 bays, supports RAID 0/1/5/6/10/50/60
- · 4 HDMI/1 VGA video output



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.

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.

Video Metadata (with Al 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.

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).

Technical Specification			Audio and Video		
System			Access Channel	128-channel	
Main Processor	64-bit multi-core processor			Incoming bandwidth: 768 Mbps Recording bandwidth: 768 Mbps	
Operating System	Embedded Linux OS	Network Bandwidth	Outgoing bandwidth: 768 Mbps 8K Output enabled:		
Operating Interface	Web (PCAPP), local GUI			Incoming bandwidth: 512 Mbps Recording bandwidth: 512 Mbps	
Al Applications				Outgoing bandwidth: 512 Mbps	
Al by Camera	Face detection; face recognition; video metadata (human; vehicle; non-motor vehicle); IVS; license plate comparison; tripwire people counting; in area people counting; abnormal number of people in queue; smoking detection; call detection; face & body detection; SMD	se area n	Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p 1-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 3-channel 24 MP@24 fps; 4-channel 16 MP@25 fps; 7-channel 12 MP@20 fps; 7-channel 8 MP@30 fps; 14-channel 8 MP@15 fps; 9-channel 6 MP@30 fps;	
Face Detection			11-channel 5 MP@30 fps; 13-channel 5 MP@25 fps;		
Face Detection	Al by Camera: 80-channel 2 MP or 60-channel 4 MP resolutionl with face detection IP camera; Supports 6 properties: Gender, age, glasses, expression, face mask, and beard	Decoding Capability		14-channel 4 MP@30 fps; 22-channel 4 MP@20 fps; 18-channel 3 MP@30 fps; 22-channel 3 MP@25 fps; 14-channel 1080p@60 fps; 28-channel 1080p@30 fps; 63-channel 720p@30 fps 8K Output enabled:	
Face Recognition				1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 1-channel 24 MP@24 fps; 2-channel 16 MP@25 fps;	
Face Recognition	Al by Camera: 80-channel 2 MP or 60-channel 4 MP face recognition with face recognition IPC; Supports entries frequency alarm		4-channel 12 MP@20 fps; 4-channel 8 MP@30 fps; 8-channel 8 MP@15 fps; 5-channel 6 MP@30 fps; 6-channel 5 MP@30 fps; 7-channel 5 MP@25 fps; 8-channel 4 MP@30 fps; 12-channel 4 MP@20 fps;		
Vehicle License Plate Comparison			10-channel 3 MP@30 fps; 12-channel 3 MP@25 fps; 8-channel 1080p@60 fps; 16-channel 1080p@30 fps;		
License Plate Database Capacity	50 plate databases with 500,000 plate numbers in total Supports allowlist and blocklist		Video Output	36-channel 720p@30 fps 1-channel VGA output, 4-channel HDMI output, VGA 1/HDMI 1 outputs the same video source.	
Vehicle License Plate Comparison	Supports 80-channel 2 MP or 60-channel 4 MP resolution with ITC			1st Screen: Max.64-channel 2nd Screen: Max.16-channel	
Video Metadata			Multi-screen Display	3rd Screen: Max.1-channel 4th Screen: Max.1-channel	
	1. Al by Camera: Supports 80-channel 2 MP or 60-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: Plate No, 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,		Third-party Camera Access	Onvif, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung	
			Compression Standard		
Video Metadata			Video Compression	Smart H.265+;H.265;Smart H.264+;H.264	
			Audio Compression	G.711a;G.711u;PCM;G.726	
			Network		
IVS Analytics	rain coat, bag , sleeve, length, top color, hat, hair style, face mask		Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;P2P;iSCS;IPv6;UPnP;SNMP	
IVS	Al by camera: Supports 80-channel 2 MP or 60-channel 4 MP Rules:Al by Camera: tripwire, intrusion, abandoned object, missing object, fast moving, crowd gathering, loitering, parking, and fence-crossing		Mobile Phone Access	DMSS	
			Interoperability	ONVIF (Profile S, T and G); CGI; SDK	
			Browser	Chrome; PCAPP; IE9 or higher; Firefox	
Video Diagnosis			Network Mode	Multiple-address mode;Load balance;Fault-tolerance;Link aggregation	
	Supports 1-channel tour detection Supports 13 detection items: blurry video, low contrast, video tampering, video jitter, abrupt image change, image freeze, overexposure detection, video loss, noise detection, scene changing, static noise, interference fringe and color cast		Recording Playback		
Video Diagnosis			Multi-channel Playback	Max. 16-channel playback	
			Record Mode	Search video detection; IO alarm; thermal imaging; intelligent event; all record file	
Cluster			Storage Method	Internal HDD	
Cluster	N+M		Backup Method	HDD, peripheral USB storage device	

Playback Function	Play; Pause; Stop; Fast forward; Fast backward; Reverse play; Frame by frame; Full-screen; Backup (clip and file); Snapshot; Digital zoom; Audio on and off				
Storage					
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	2 channels				
Alarm Input	16 channels				
Alarm Output	8 channels				
Disk Interface	8 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 or 8K output. 8K Output enabled: 1 port for 8K and 1 port for 1080p				
VGA	1 port				
Network Port	4 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports				
Power	Single supply				
General					
Disk Bay	8				
Form Factor	2U				
Power Supply	200–240 VAC, 50/60 Hz				
Power Consumption	Working(all HDDs connected): ≤105 W (358 BTU/hr) Working(without HDD): ≤ 38W(130 BTU/hr) Rated: ≤ 200 W (683 BTU/hr)				
Fan	Intelligent speed regulation fan				
Net Weight	7.66 kg (16.89 lb)				

Gross Weight	10.24 kg (22.58 lb)		
Product Dimensions	Chassis: 439.7 mm \times 446.2 mm \times 89.0 mm (17.31" \times 17.57" \times 3.50") (W \times L \times H) Max. size: 481.7 mm (with hanger) \times 446.2 mm \times 90.8 mm (with feet mat) (18.96" \times 17.57" \times 3.57") (W \times L \times H)		
Packaging Dimensions	With packaging: $562 \text{ mm} \times 599 \text{ mm} \times 235 \text{ mm}$ (22.13" × 23.58" × 9.25") (W × L × H) Protection box: $491 \text{ mm} \times 584 \text{ mm} \times 631 \text{ mm}$ (19.33" × 22.99" × 24.84") (W × L × 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: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024		

Ordering Information						
Туре	Model	Description				
Intelligent Video Surveillance Server	DHI-IVSS7108/H-V2	128CH 2U Intelligent Video Surveillance Server				
Accessories (Optional)	DHI-RailBracket60/L- Shaped	Dahua Server Cabinet Rail Bracket				

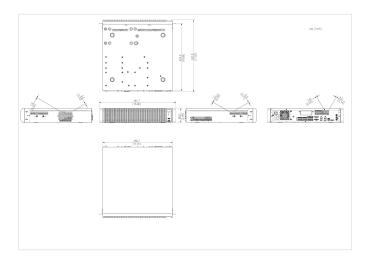
Accessories

Optional:

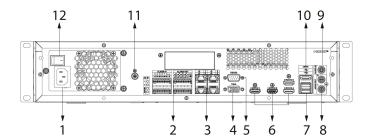


DHI-RailBracket60/L-Shaped Dahua Server Cabinet Rail Bracket

Dimensions (mm[inch])



Panels



- 1 Power Input
- 3 Network Ports
- 5 RS-232 Port
- 7 USB Port
- 9 Audio Input
- 11 Ground

- 2 Alarm In/Out
- 4 VGA Port
- 6 HDMI Port
- 8 Audio Output
- 10 eSATA Port
- 12 Power Switch