



DHI-IVSS5108

64CH 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
- · Max 64-ch IP camera inputs
- · Max 384 Mbps incoming/recording/forwarding bandwidth
- · 8 bays, supports RAID 0/1/5/6/10/50/60
- · 2 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.

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	on	Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP	
System		Resolution	MP;1080p;720p	
Main Processor	64-bit high-performance multi-core processor	Decoding Capability	1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2-channel 16 MP@30 fps; 5-channel 8 MP@30 fps; 6-channel 6 MP @30 fps; 8-channel 5 MP@30 fps; 10-channel 4 MP@30 fps; 20-channel 1080p@30 fp 45-channel 720p@30 fps	
Operating System	Embedded Linux OS			
Operating Interface Al Applications	Web (PCAPP); local GUI	Video Output	1-channel VGA output, 2-channel HDMI output, VGHDMI 1 outputs the same video source.	
Al by Camera	Face detection; face recognition; video metadata (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	Multi-screen Display	Max. 16-channel local live view. Max. 16-channel Polive view	
		Third-party Camera Access	ONVIF, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung	
Face Detection		·	Compression Standard	
	Al by Camera: 64-channel 2 MP or 64-channel 4 MP resolution with face detection IP camera Supports 6 properties: Gender, age, glasses, expression, face mask, and beard	Video Compression	Smart H.265+;H.265;Smart H.264+;H.264	
Face Detection		Audio Compression	G.711a;G.711u;PCM;G.726	
		Network	Network	
Face Recognition	1. Al by Camera: 64-channel 2 MP or 64-channel 4 MP	Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;P2P; ;IPv6;UPnP;SNMP	
Face Recognition	face recognition with face recognition IPC 2. Supports entries frequency alarm	Mobile Phone Access	DMSS	
Vehicle License Plate	Comparison	Interoperability	ONVIF (Profile S, T and G); CGI; SDK	
License Plate Database	1. 50 plate databases with 500,000 plate numbers in	Browser	Chrome; PCAPP; IE9 or higher; Firefox	
Capacity Vehicle License Plate	total 2. Supports allowlist and blocklist Supports 64-channel 2 MP or 64-channel 4 MP	Network Mode	Multiple-address mode;Load balance;Fault-tolerance;Link aggregation	
Comparison	resolution with ITC	Recording Playback		
Video Metadata		Multi-channel Playback	Web: Max. 16-channel playback Local: Max. 9-char playback	
	1. Al by Camera: Supports 64-channel 2 MP or 64-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 Nonmotorized 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	Record Mode	Auto record; manual record; search video detectio alarm; thermal imaging; intelligent event; all record	
NG 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Storage Method	Internal HDD	
Video Metadata		Backup Method	HDD, peripheral USB storage device	
		Playback Function	1. Play; Pause; Stop; Fast forward; Fast backward; Reverse play; Frame by frame; 2. Full-screen; Backu (clip and file); Snapshot; Digital zoom; Audio on and	
IVS Analytics		Storage	Storage	
,	1. Al by Camera: Supports 64-channel 2 MP or 40-	Disk Group	Yes	
	channel 4 MP resolution 2. Rules: Al by Camera: tripwire, intrusion, abandoned object, missing object, fast moving, crowd gathering, loitering,	Network Disk	iSCSI	
IVS		RAID	RAID0;RAID1;RAID5;RAID6;RAID10;RAID50;RAID60	
Vidoo Diagnosis	parking and fence-crossing	Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based).	
Video Diagnosis	1 Compared about 11 and 12 and 13 and 15 and	Alarm		
Video Diagnosis	Supports 1-channel tour detection 2. Supports 12 detection items: Video tampering, scene changing, video jitter, noise detection, stripe interference, video loss, image freeze, overexposure, defocus detection, video color cast, abrupt image change and low contrast	General Alarm	Motion detection; tampering; local alarm; IPC exte alarm; fire alarm; temperature alarm; temperature difference alarm; hot spot alarm; cold spot alarm	
Audio and Video		Am a Iv . A I	IPC offline alarm; storage error; HDD full; IP conflic MAC conflict; login lock; AI module temperature al	
Access Channel	64-channel	Anomaly Alarm	Al module offline; fan malfunction; no HDD; power exception	
Network Bandwidth	Incoming bandwidth: 384 Mbps Recording bandwidth: 384 Mbps Outgoing bandwidth: 384 Mbps			

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, SATA. 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 at the rear panel.		
HDMI	2 ports, HDMI 1 supports 4K output.		
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	100-240 VAC, 50-60 Hz		
Power Consumption	Working (without HDD): ≤ 38 W (129.69 BTU/hr) Working (all HDDs connected): ≤ 105 W (358.36 BTU/hr) Rated: ≤ 200 W (682.59 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 D \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 D \times H)		
Packaging Dimensions	With packaging: $599 \text{ mm} \times 562 \text{ mm} \times 235 \text{ mm}$ (23.58" × 22.13" × 9.25") (W × D × H) Protection box: $584 \text{ mm} \times 491 \text{ mm} \times 631 \text{ mm}$ (22.99" × 19.33" × 24.84") (W × D × H)		
Operating Temperature	0 °C to +55 °C (+32 °F to +131 °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		

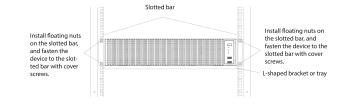
Ordering Information					
Туре	Model	Description			
Intelligent Video Surveillance Server	DHI-IVSS5108	64CH 2U Intelligent Video Surveillance Server			
Accessories (Optional)	DH-IVSS508-V2-9HDD	OCH Nonstandard HDD Bracket			

Accessories

Optional:

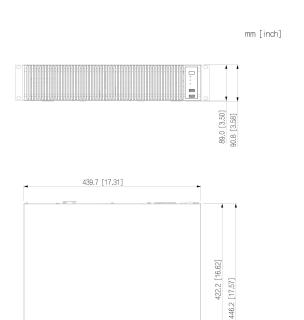


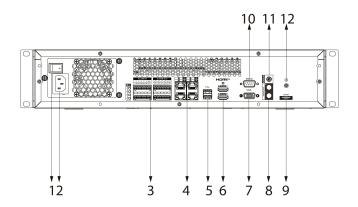
DH-IVSS508-V2-9HDD OCH Nonstandard HDD Bracket



Dimensions (mm[inch])

Panels





- 1 Power Switch
- 2 Power Input
- 3 Alarm In/Out
- 4 Network Port
- 5 USB Port
- 6 HDMI Port
- 7 VGA Port
- 8 AUDIO OUT
- 9 eSATA Port
- 10 RS-232 Port
- 11 AUDIO IN
- 12 Ground