



DHI-IVSS7112

128CH 2U 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
- · 128-channel IP video access
- · Max 768 Mbps/768 Mbps incoming/recording bandwidth
- · 12 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.

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 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	n		
System			Resolution
Main Processor Operating System Operating Interface Al Applications	64-bit multi-core processor Embedded Linux OS Web (PCAPP), local GUI Face detection; face recognition; video metadata (human; vehicle; non-motor vehicle); IVS; license		Decoding Capability
Al by Camera	plate comparison; tripwire people counting; regional people counting; abnormal number of people in queue; smoking detection; call detection; face & body	Video Output	
Face Detection	1. Al by Camera: 80-channel 2 MP or 60-channel 4 MP		Multi-screen Display
Face Detection	resolutionl with face detection IP camera; 2. Supports 6 properties: Gender, age, glasses, expression, face mask, and beard		Third-party Camera Access
Face Recognition		Compression Standar	
Face Recognition	1. Al by Camera: 80-channel 2 MP or 60-channel 4 MP face recognition with face recognition IPC;		Video Compression
	2. Supports entries frequency alarm		Audio Compression
Vehicle License Plate Comparison			Network
Vehicle License Plate Comparison	Supports 80-channel 2 MP or 60-channel 4 MP resolution with ITC		Network Protocol
Video Metadata			Mobile Phone Access
	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: 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		Interoperability
			Browser
Video Metadata			Network Mode
Nace Metadata			Recording Playback
			Multi-channel Playback
			Record Mode
IVS Analytics			Storage Method
	1. Al by camera: Supports 80-channel 2 MP or 60-channel 4 MP		Backup Method
IVS	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,		Playback Function
Vil Di	parking, and fence-crossing		Storage
Video Diagnosis			Disk Group
	Supports 1-channel tour detection 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		Network Disk
Video Diagnosis			RAID
			Record Management
Audio and Video			Alarm
Access Channel Network Bandwidth	128-channel Incoming bandwidth: 768 Mbps;		General Alarm
	Recording bandwidth: 768 Mbps;		

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	12 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 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	12	
Form Factor	2U	
Power Supply	100-127/200-240VAC, 50/60Hz, 7/3.5A	
Power Consumption	Working(all HDDs connected): \leq 250W(853 BTU) Working(without HDD): \leq 120W(410 BTU) Rated: \leq 550W(1877 BTU)	
Fan	Intelligent speed regulation fan	
Net Weight	12.50 kg (27.56 lb)	
Gross Weight	18.84 kg (41.54 lb)	
Product Dimensions	Chassis: 447.6 mm× 604.3 mm× 87 mm (17.62" × 23.79" × 3.43") (W × L × H) Max. size: 482.59 mm (with hanger) × 604.3 mm × 97 mm (with feet mat) (19.00" × 23.79" × 3.43") (W × L× H)	
Packaging Dimensions	With packaging: 654 mm × 834 mm × 201 mm (22.13" × 23.58" × 9.25")(W × L × H) Protection box: 625 mm × 895 mm × 271 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%–80% (RH), non-condensing	
Operating Altitude	F000 m /16404 20 ft)	

5000 m (16404.20 ft)

Operating Altitude

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-IVSS7112	128CH 2U Intelligent Video Surveillance Server			

Accessories

Optional:

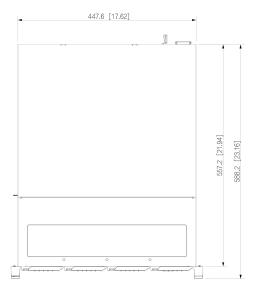


DHI-RB60 Server Cabinet Rail Bracket For 12-bay IVSS

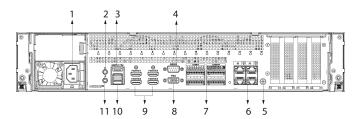
Dimensions (mm[inch])

mm [inch]





Panels



- 1
 Power Input
 2
 AUDIO OUT

 3
 eSATA Port
 4
 RS-232 Port

 5
 Ground
 6
 Networt Ports

 7
 Alarm In/Alarm Out
 8
 VGA Ports

 9
 HDMI Ports
 10
 USB Ports
- 11 AUDIO IN