

DHI-IVSS7008

2U 8HDD Intelligent Video Surveillance Server



- · Industry embedded micro-controller
- Max 512Mbps incoming bandwidth
- 128-channel IP video access
- Supports RAID 0/1/5/6/10
- 3 HDMI/2 VGA video output

Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Dahua IVSS goes beyond the ordinary NVR products. It is an Intelligent Video Surveillance Server that combines video management features with traditional video storage functions in one device. Besides the basic functions as a network video recorder, IVSS is integrated with features such as face detection and face recognition for different business and industrial applications.

An all new UI design supports device operation and maintenance management, improving the value and experience of surveillance view, and serving the era of security big data.

Functions

Face Recognition (with AI camera)

Supports real-time Face Detection & Recognition (with Al camera). Shows real-time face detection and recognition results from Al camera. Records faces with video metadata. Facial features are filtered during real-time display, so as to show only faces with target features. Facial features include gender, age, expression, and more. The linkage actions for face detection and recognition events are configurable, including alarm, buzzer, snapshot, video recording, and more.

Perimeter Protection(with AI camera)

Automatically filters out false alarms caused by animals, rustling leaves and bright lights, so as to improve alarm accuracy. Enables system to act secondary recognition for the targets.

Video Metadata (with AI camera)

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Currently, there are four main kinds of metadata in the security industry: Human face, human body, and motor vehicle, non-motor vehicle metadata.

ANPR

Automatic Number Plate Recognition available for convenient entrance/ exit management. This feature provides number plate recognition (working with Dahua ITC camera), number plate comparison with black/ white list, vehicle database management, and vehicle record search.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure failover technique to ensure immediate backup. In the event of a system failure, the slave device instantly takes over the master device to ensure no data loss.

Fisheye Dewarp

Supports multiple fisheye dewarp modes to make viewing video easy whether it is live or during playback.

Smart Tracking

The automatic tracking PTZ feature automatically tracks a moving target throughout the camera's field of view. This function is ideal for following an object as it moves through airports, parking lots, city centers, or other scenes.

Technical Specification		Multi-screen Display	Customized display. Max. 36-channel local live view. Max.16-channel PCAPP live view
System			Onvif, RTSP, Sony, Panasonic, Axis, Arecont,
Main Processor	Industry embedded micro-controller	Third-party Support	Pelco,Canon, Samsung
Operating System	Embedded Linux OS	Compression	
Operation Interface	WEB (PCAPP), local GUI	Video Compression	Smart H.265+/Smart H.264+/H.265/H.264
Al Applications		Audio Compression	G.711A/G.711U/PCM/G726
Supports Al by camera function: Human face detection,		Network	
AI by Camera	human face recognition, video metadata (person/ vehicle/non-motor vehicle), perimeter protection	Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
Perimeter Protection		Mobile Phone	DMSS
Perimeter Function (AI by Camera)	64-channel	Interoperability	ONVIF(Profile S, T and G), CGI, SDK
Human Face Detection		Browser	Chrome, PCAPP, IE9 or higher, Firefox
Human Face Properties	Supports 6 properties: Gender, age range (6-level), glasses, expression (8 types), mouth mask, and beard	Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, etc
Face Detection	64-channel	Record Playback	
Performance (AI by Camera) (Channel		Multiple-channel Playback	Max. 16-channel playback
Number) ANPR		Record Search	Search video detection/manual record/IO alarm/intelligent event/all record file
	Max. 50 plate databases with 3 hundred thousand plate numbers in total Supports black list/white list	Storage Medium	Internal HDD
Plate Database Capacity		Backup Method	HDD, peripheral USB storage device
Plate Detection Performance	32-channel	Playback Function	Play/pause/stop/fast forward/fast backward/reverse play/frame by frame play. Full-screen, backup (clip/file), snapshot, digital zoom, audio on/off
Video Metadata		Storage	
Human Body Properties	Top color, top type, bottom color, bottom type, cap, bag, age, gender, and umbrella	HDD Group	8
	Supports 9 properties: Plate, plate color, vehicle body, vehicle brand, driver calling, seatbelt status, decoration object in the vehicle, and vehicle registration place	RAID	RAIDO/1/5/6/10
Vehicle Properties		Storage Pool	N/A
Non-motor Vehicle Properties	Supports 4 properties: Vehicle type, vehicle color, people amount, and helmet	Alarm	
Metadata Performance		General Alarm	Motion detect, tampering, local alarm
(AI by Device) (1080P) (Channel Number)	N/A	Anomaly Alarm	IPC offline alarm, storage error, HDD full, IP conflict, MAC conflict, login lock, fan malfunction
Metadata Performance (Al by Camera) (Channel Number)	32-channel	Intelligent Alarm	Human face detection, human face recognition, video metadata (person/vehicle/non-motor vehicle), perimeter protection (intrusion, tripwire), plate recognition
Video Parameters		Alarm Linkage	Record, picture storage (full image), local external alarm output, IPC external alarm output, access & control,
Remote Connection	128	·	audio prompt, buzzer, log, preset, email
Network Bandwidth	Incoming bandwidth: 512Mbps Recording bandwidth: 400Mbps Outgoing bandwidth: 512Mbps	Peripheral Interface Audio Input	1-channel, RCA port (reserved)
Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/ D1/CIF/QCIF	Audio Output	2-channel, RCA port (reserved), speaker output, audio linkage output
Decoding Capability	5-channel 12MP (20fps)/6-channel 12MP (15fps)/5-channel 8MP (30fps)/10-channel 8MP (15fps)/6-channel 6MP(30fps)/8-channel 5MP(30fps)/9-channel 5MP (25fps)/10-channel 4MP (30fps)/15-channel 4MP (20fps)/16-channel 3MP (25fps)/10-channel 1080P (60fps)/20-channel 1080P (30fps)	Alarm Input	16-channel
		Alarm Output	8-channel
		Internal HDD	8 slots, SATA3.0. Max.10T/HDD
Video Output	2-channel VGA output, 3-channel HDMI output, VGA 1/ HDMI 1 outputs the same video source. VGA2/HDMI2 outputs the same video source. Supports 4K output	eSATA	1 port
		SAS	N/A

Al series | DHI-IVSS7008

RS-232	1 port, for debug or transparent COM data
RS-485	1 port, control peripheral PTZ and so on. Supports various protocols
USB	4 ports. 2 USB2.0 port at the front panel and 2 USB3.0 port a the rear panel
HDMI	3 ports; support 4K output
VGA	2 ports
Network	4 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports
Power	1 port
PoE	N/A

General Parameters

Power Supply	100V AC-240V AC 50±2%Hz	
Power Consumption	40W (Without HDD, idling)	
Net Weight	8.55 Kg (18.85 lb)	
Gross Weight	10.9 Kg (24.03 lb)	
Dimensions	Chassis: 439.7 mm × 446.2 mm × 89 mm (17.31 " × 17.57 " × 3.50 ") Max. size: 481.7 mm (with hanger) × 446.2 mm × 90.8 mm (with feet mat) (18.96 " × 17.57 " × 3.57 ")	
Packaging Dimensions	With Packaging: 562 mm × 599 mm × 235 mm (22.13 " × 23.58 " × 9.25 ") Protection box: 491 mm × 584 mm × 631 mm (19.33 " × 22.99 " × 24.84 ")	
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °F)/10%RH–90% RH	
Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)/30%RH–85% RH	
Operating Humidity	10%-90%	
Storage Humidity	30%-85%	
Operating Altitude	5000 m (16404.20 ft)	
Installation Mode	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 FCC: Part 15 Subpart B UL 60950-1	

Dimensions(mm[inch])







