

DHI-IVSS7108

2U 8HDDs Intelligent Video Surveillance Server



- · Industry embedded micro-controller
- · Max 512Mbps incoming bandwidth
- 128-channel IP video access
- Supports RAID 0/1/5/6/10/50/60
- 4 HDMI/1 VGA video output

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.

Al IVS(with Al camera)

With deep learning algorithm, AI IVS technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, parking detection, loitering detection and crowd gathering estimation) are largely reduced.

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 blocklist/allowlist, 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 sub device instantly takes over the main device to ensure no data loss.

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	on		1-channel VGA output, 4-channel HDMI output , VGA	
System	UII TOTAL TO	Video Output	1/HDMI 1 outputs the same video source. Supports 4K output	
Main Processor	Industry embedded micro-controller		1st Screen: Max.64-channel 2nd Screen: Max.16-channel	
Operating System	Embedded Linux OS	Multi-screen Display	3rd Screen: Max.1-channel 4th Screen: Max.1-channel	
Operation Interface	WEB (PCAPP), local GUI	Third-party Support	Onvif, RTSP, Sony, Panasonic, Axis, Arecont,	
Al Applications		Compression	Pelco,Canon, Samsung	
Al by Camera	Face detection, face recognition, entries frequency, video metadata, IVS (tripwire, intrusion, abandoned object, missing object, fast moving, parking detection) crowd gathering, loitering, parking, and fence-crossing), people counting, smoking detection, call detection	Video Compression	Smart H.265+/Smart H.264+/H.265/H.264	
		Audio Compression	G.711a; G.711u; PCM; G.726	
		Network		
IVS		Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; ISCSI; UPnP; SNMP; IPv6	
Perimeter Function (AI by Camera)	64-channel	Mobile Phone	DMSS	
Human Face Detection	on	Interoperability	ONVIF(Profile S, T and G), CGI, SDK	
Human Face Properties	Supports 6 properties: Gender, age range (6-level), glasses, expression (8 types), mouth mask, and beard	Browser	Chrome, PCAPP, IE9 or higher, Firefox	
Face Detection Performance (AI by	64-channel	Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, etc	
Camera) (Channel Number)		Record Playback		
ANPR		Multiple-channel Playback	Max. 16-channel playback	
Plate Database Capacity	50 plate databases with 500,000 plate numbers in totalSupports allowlist and blocklist	Record Search	Search video detection/manual record/IO alarm/intelligent event/all record file	
Plate Detection	32-channel	Storage Medium	Internal HDD	
Performance		Backup Method	HDD, peripheral USB storage device	
Video Metadata Human Body Properties	Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle,	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	
	direction, hold a baby, mouth mask	Storage	Storage	
Vehicle Properties	Vehicle type, vehicle color, plate color, logo, calling, seatbelt, ornament, region	HDD Group	8	
Non-motorized Vehicle Properties	Non-motor vehicle type, non-motor vehicle color, number of passengers, umbrella, rain coat, bag , sleeve	RAID	RAIDO/1/5/6/10/50/60	
Metadata Performance	length, top color, hat, hair style, mouth mask	Storage Pool	N/A	
(Al by Device) (1080P) (Channel Number)	N/A	Alarm		
Metadata Performance	22 shared	General Alarm	Motion detect, tampering, local alarm	
(AI by Camera) (Channel Number)	32-channel	Anomaly Alarm	IPC offline alarm, storage error, HDD full, IP conflict, MAC conflict, login lock, fan malfunction	
Video Parameters		Intelligent Alarm	Human face detection, human face recognition, video metadata (person/vehicle/non-motor vehicle), IVS,	
Remote Connection	128	intelligent Aldi III	plate recognition, people counting, smoking, call	
Network Bandwidth	Incoming bandwidth: 512Mbps Recording bandwidth: 400Mbps Outgoing bandwidth: 512Mbps	Alarm Linkage	Record, picture storage (full image), local external alarm output, IPC external alarm output, access & control, audio prompt, buzzer, log, preset, email	
Resolution	32MP/24MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/10 80P/960P/720P/D1/CIF/QCIF	Peripheral Interface		
Decoding Capability	1-channel 32MP/1-channel 24MP/2-channel 16MP/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)/30-channel 720P (30fps)	Audio Input	1-channel, RCA port (reserved)	
		Audio Output	2-channel, RCA port , speaker output, audio linkage output	
		Alarm Input	16-channel	
		Alarm Output	8-channel	

Internal HDD	8 slots, SATA3.0. Max.16T/HDD
eSATA	1 port
SAS	N/A
RS-232	1 port, for debug or transparent COM data
RS-485	1 port, control peripheral PTZ and so on. Supports various protocols
USB	2 USB2.0 ports at the front panel and 2 USB3.0 ports at the rear panel
HDMI	4 ports; support 4K output
VGA	1 ports
Network	4 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports
Power	1 port
PoE	N/A

General Parameters

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Power Supply	100V AC-240V AC 50-60%Hz		
Power Consumption	35 W (without HDD, idling) 100 W (all HDDs connected)		
Net Weight	7.66 kg (16.89 lb)		
Gross Weight	10.24 kg (22.58 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	−20 °C to +70 °C (−4 °F to +158 °F)		
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])





