



DHI-IVD3116-11

16CH 1U INTELLIGENT VIDEO DEVICE





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 IVD is an AI edge computing device that combines traditional video management with intelligent video analytics. It provides real-time AI monitoring and high-speed data processing on-site. With its built-in deep learning module, this series offers high-precision AI functions including human face recognition, video metadata, and industrial algorithms, making it widely applicable to various industries and the perfect solution for upgrading traditional CCTV systems in the most cost-effective way.

Functions

Face Detection

Empowered by deep-learning algorithms, the device supports face detection, tracking, and capture, and outputs the best face snapshots. It supports analysis of up to 6 face attributes.

Face Recognition

Supports recording faces with incredible accuracy through metadata and real-time cross-check to recognize faces with target features. With Regular and Stranger face modes, the device triggers a wide variety of alarm actions to suit different situations.

- · 64-bit High-performance multi-core processor
- · Max 16-ch IP camera inputs
- · Max 96 Mbps incoming/recording/outgoing bandwidth
- · Up to 8-channel AI IVS
- · Up to 8-channel face recognition with normal IPC
- · Up to 12-channel face recognition with face detection IPC
- · Up to 8-channel video metadata
- · Up to 8-channel AcuPick with normal IPC
- · Up to 100 face databases with 300,000 face pictures in total
- · 1 SATA bay, Max.20 TB
- · 1 HDMI/1 VGA video output











Video Metadata

Metadata is the information on the features and attributes that is extracted from target objects which can be used for data retrieval. Currently, there are 4 main kinds of metadata in the security industry: Human face, human body, and motor vehicle and non-motor vehicle metadata.

IVS

Within specified restricted areas, intelligent detections are carried out, such as tripwire, intrusion, parking, people loitering and gathering. Driven by deep learning algorithms, IVS can provide precise person and vehicle classification detection, and accurately trigger alarms based on object types (pedestrians and vehicles), to greatly reduce the generation of false alarms. In addition, some basic functions including tripwire and intrusion are also referred to as perimeter protection.

AcuPic

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

System Main Processor Get 4bit high performance multil core processor Operating System Embedded Linux OS Operating interface Web (PCAPP): local BUI Al Applications Face detection, but recognition, video metadata thursam, vehicle, non-recognition, video metadata thursam, video thursam, vehicle, non-recognition, video metadata thursam, video thursa	Color number of assempters, unifold in the color processor Color number of assempters, unifold of the color processor Color number of assempters, unifold of the color processor Color number of assempters, unifold of the color processor Color number of the color number of the color processor Color number of the color number of the color processor Color number of the	Technical Specification				color, logo, calling, seatbelt, ornament N
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Vehicle License Plate Comparison Decoding Capability SMP@15 fps; 2-channel 8 MP@30 SMP@15 fps; 3-channel 5 MP@305 SMP@30 fps; 3-channel 5 MP@205 SMP@30 fps; 3-channel 1 MP@205 AMP@30 fps; 3-channel 1 MP@205 AMP@30 fps; 3-channel 1 MP@205 AMP@30 fps; 3-channel 1 MP@305 AMP@30 fps; 3-channel 3 MP@205 AMP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP or 6-channel 4 MP resolution AMP@30 fps; 3-channel 5 MP@30 AMP@30 fps; 3-channel 5 MP@205 AMP@30 fps; 3-channel 4 MP@30 fps; 3-channel 4 MP Comparison Wideo Output Amax. 16-channel PCAPP live view Max. 16-channel PCAPP live view Amax. 16-channel PCAPP live view	3. Supports entries frequency alarm Vehicle License Plate Comparison License Plate Database Capacity 1. 50 plate databases with 300,000 plate numbers in total 2. Supports allowlist and blocklist Vehicle License Plate Capacity Video Output 1. 50 plate databases with 300,000 plate numbers in total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Video Output 1. Channel 12 MP @30 fps; 3-channel 5 MP@30 fps 4 MP@30 fps; 6-channel 3 MP@25 fps 1080p@30 fps; 9-channel 1080p@30 720p@30 fps Video Output 1. Channel VGA output, 1-channel HDM HDMI 1 outputs the same video source Max. 16-channel local live view Max. 16-channel PCAPP live view Max. 16-channel PCAPP live view Max. 16-channel PCAPP live view Video Metadata Video Metadata Video Metadata Compression Standard Video Compression Smart H.265+;H.265;Smart H.264+;H.265				Resolution	16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF
Decoding Capability 5 MP@30 fps; 3-channel 5 MP@25 4 MP@30 fps; 6-channel 3 MP@25 1080p@60 fps; 9-channel 1080p@3 720p@30 fps Vehicle License Plate Comparison Video Output 1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 1. Al by Recorder: Supports 12-channel 2 MP or 6-channel 2 MP or 6-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 2 MP or 6-channel 2 MP or 6-channel 4 MP resolution Video Metadata Decoding Capability 5 MP@30 fps; 3-channel 5 MP@25 4 MP@30 fps; 3-channel 5 MP@25 1080p@60 fps; 9-channel 1080p@3 720p@30 fps Video Output 1-channel VGA output, 1-channel HI HDMI 1 outputs the same video sout Max. 16-channel local live view Max. 16-channel PCAPP liv	License Plate Database Capacity 1. 50 plate databases with 300,000 plate numbers in total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Video Metadata 1. 60 plate databases with 300,000 plate numbers in total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Video Output 1. channel VGA output, 1. channel HDN HDMI 1 outputs the same video source HDMI 1 outputs the same video source Multi-screen Display Max. 16-channel local live view Max. 16-channel PCAPP live view Max. 16-channel PCAPP live view Video Metadata 1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, Decoding Capability 5 MP@30 fps; 3-channel 5 MP@25 fp: 4 MP@30 fps; 6-channel 5 MP@25 fp: 4 MP@30 fps; 6-channel 3 MP@25 fp: 1080p@60 fps; 9-channel 1080p@30 720p@30 fps 1-channel VGA output, 1-channel HDN HDMI 1 outputs the same video source Multi-screen Display Max. 16-channel PCAPP live view Max. 16-cha		channel 4 MP resolution		Decoding Capability	1-channel 16 MP; 1-channel 12 MP@20 fp 12 MP@15 fps; 2-channel 8 MP@30 fps; 2 8 MP@15 fps; 3-channel 6 MP@30 fps; 3-c 5 MP@30 fps; 3-channel 5 MP@25 fps; 4-c
total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Video Output 1-channel VGA output, 1-channel HI HDMI 1 outputs the same video sou Multi-screen Display 1. Al by Recorder: Supports 8-channel 2 MP or 4- channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6- channel 4 MP resolution Video Metadata 1080p@60 fps; 9-channel 1080p@3 720p@30 fps Video Output 1-channel VGA output, 1-channel HI HDMI 1 outputs the same video sou Multi-screen Display Max. 16-channel local live view Max. 16-channel PCAPP live view ONVIF, RTSP, Sony, Panasonic, Axis, A Canon, Samsung Video Metadata Compression Standard	License Plate Database Capacity total 2. Supports allowlist and blocklist Vehicle License Plate Comparison Video Output 1-channel VGA output, 1-channel HDN HDMI 1 outputs the same video source Multi-screen Display 1. Al by Recorder: Supports 8-channel 2 MP or 4- channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6- channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, 1080p@60 fps; 9-channel 1080p@30 720p@30 fps Video Output 1-channel VGA output, 1-channel HDN HDMI 1 outputs the same video source Max. 16-channel local live view Max. 16-channel PCAPP live view Max. 16-channel PCAPP live view Third-party Camera Access Compression Standard Video Compression Smart H.265+;H.265;Smart H.264+;H.265	Vehicle License Plate Comparison				
Comparison resolution with ITC Video Metadata Video Output HDMI 1 outputs the same video sou Multi-screen Display Max. 16-channel local live view Max. 16-channel PCAPP live view Max. 16-channel PCAPP live view 1. Al by Recorder: Supports 8-channel 2 MP or 4- channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6- channel 4 MP resolution Compression Standard	Video Metadata Video Metadata I. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, Video Output HDMI 1 outputs the same video source Max. 16-channel local live view Max. 16-channel PCAPP live view Third-party Camera Access ONVIF, RTSP, Sony, Panasonic, Axis, Are Canon, Samsung Compression Standard Video Compression Smart H.265+;H.265;Smart H.264+;H.265		total			4 MP@30 fps; 6-channel 3 MP@25 fps; 4 1080p@60 fps; 9-channel 1080p@30 fps;
1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution Channel 4 MP resolution Compression Standard Multi-screen Display Max. 16-channel PCAPP live view ONVIF, RTSP, Sony, Panasonic, Axis, A Canon, Samsung Compression Standard	1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, Multi-screen Display Max. 16-channel PCAPP live view ONVIF, RTSP, Sony, Panasonic, Axis, Are Canon, Samsung Compression Standard Video Compression Smart H.265+;H.265;Smart H.264+;H.265				Video Output	1-channel VGA output, 1-channel HDMI HDMI 1 outputs the same video source.
1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution Channel 4 MP resolution Compression Standard	1. Al by Recorder: Supports 8-channel 2 MP or 4-channel 4 MP resolution 2. Al by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, Third-party Camera Access ONVIF, RTSP, Sony, Panasonic, Axis, Are Canon, Samsung Compression Standard Video Compression Smart H.265+;H.265;Smart H.264+;H.265	Video Metadata			Multi-screen Display	
Video Metadata COMDITESSION STANDARD	3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby,	Video Metadata	channel 4 MP resolution 2. AI by Camera: Supports 12-channel 2 MP or 6-channel 4 MP resolution 3. Object type: Human body: Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby,		Third-party Camera Access	ONVIF, RTSP, Sony, Panasonic, Axis, Arec
	length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby,				Compression Standard	
Video Compression Sindre n. 2037, n. 2037, sindre n. 2047, n					Video Compression	Smart H.265+;H.265;Smart H.264+;H.26
					Audio Compression	G.711a;G.711u;PCM;G.726

Network			
Network Protocol	HTTP;HTTPS;TCP/ IP;IPv4;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;P2P;IPv6; UPnP;SNMP		
Mobile Phone Access	DMSS		
Interoperability	ONVIF (Profile S, T and G); CGI; SDK		
Browser	Chrome; PCAPP; IE9 or higher; Firefox		
Network Mode	Multiple-address mode;Load balance;Fault-tolerance;Link aggregation		
Recording Playback			
Multi-channel Playback	Max. 16-channel playback		
Record Mode	Search auto; manual; video detection; IO alarm; thermal imaging; intelligent event; all record file		
Storage Method	Internal HDD		
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			
Record Management	Supports record control (continuous, event-based, scheduled, scheduled & event-based)		
Alarm			
General Alarm	Motion detection; tampering; IPC external alarm; heat 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	1 channel		
Alarm Input	4 channels		
Alarm Output	2 channels		
Disk Interface	1 slot, SATA3.0. Max.20 TB/HDD		
RS-232	1 port		
RS-485	1 port		
USB	4 ports. 2 USB2.0 ports at the front panel and 2 USB3.0 ports at the rear panel.		
HDMI	1 port.		
VGA	1 port		
Network Port	2 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports		
Power	Single supply		

General			
Disk Bay	1		
Form Factor	1U		
Power Supply	12 VDC,5 A		
Power Consumption	12 W (without HDD, idling) 19 W(all HDDs connected)		
Fan	Intelligent speed regulation fan		
Net Weight	1.75 kg (3.86 lb)		
Gross Weight	2.78 kg (6.13 lb)		
Product Dimensions	Chassis: 304 mm \times 223.8 mm \times 43.5 mm (11.97" \times 8.11" \times 1.71") (W \times D \times H)		
Packaging Dimensions	With packaging: 399 mm × 304 mm × 133 mm (15.71" × 11.97" × 23.58") (W × D × H)		
Operating Temperature	-10 °C to +55 °C (+14 °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 DEVICE	DHI-IVD3116-1I	16CH 1U INTELLIGENT VIDEO DEVICE				

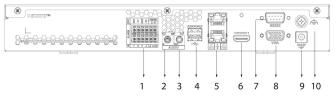
Dimensions (mm[inch])







Panels



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