

DHI-IVS-F7500-P

Face Recognition Server



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

As a mass data platform of face management, Dahua IVS analyzes image as structural data and picture, and stores them in distributed database and distributed memory respectively. Boast excellent image comparison search engine technology, support fuzzy search of mass data and provide search results within seconds.

IVS belongs to the cloud center and platform. It can be clustered using cloud architecture and virtualize all IVS devices into a smart cloud. Clusters can be superimposed on faces and the common database can be compared, analyzed, and managed. For the addition and expansion of the system, it has very good compatibility and can be virtualized into the original intelligent cloud system.

- Up to 2 Intel Xeon processors, up to 20 cores per processor
- NVIDIA TESLA P4 GPU, Integer arithmetic capability up to 22TOPS
- 2 x M.2 SSD 240 GB, raid1. Boot optimized storage subsystem
- 128GB DDR4 ECC memory
- 20T, 5 × 4T SATA HDD
- · Up to 100 channels face recognition
- Dynamic Database 300,000; Static Database 20,000,000
- · Search by image
- Blacklist alarm









Functions

Face Recognition

Up to 100 channel real time face recognition, front-end face detection but back-end recognition. Model building face picture 100 times per second, and compare with 300,000 dynamic database for a second.

Comparison Mode

- 1:1, two face picture are compared to determine whether it is the same person.
- 1 : N, A face picture and face database are compared to check if it is in the comparison database.
- n: N, two face database are compared to check the same person.

Real-time Alarm

Support to detect the human face in the picture automatically and to compare it with the human face pictures in the enrolled database and captured database, popping up the results immediately. Dynamic database can be divided into multiple database and managed separately, including blacklist. Different database, set different alarm thresholds.

Database Management

Support to add, delete, modify and query the person information in the enrolled database, support batching import/export the pictures and compressed file.

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Technical Specific	ation			
System				
Main Processor	Intel Xeon Gold 5120 × 2			
GPU	NVIDIA Tesla P4			
Memory	128GB, up to 512GB			
Operating System	CentOS Linux release 7.2.1511 (core)			
Artificial Intelligence				
Channel	Up to 100 channels face recognition			
Performance	8,500,000 pictures of daily processing			
Detection Pixel	1080P more than 60 x 60 Pixel			
Recogntion Pixel	1080P more than 120 x 120 Pixel			
Retrieve	Detects faces within images and compare them with the face library. Engage in multi-person search and order by similarity. Supports single or batch export.			
Deflection Angle	Up and down deflection maximum 15 degrees; Left and right deflection maximum 30 degrees.			
Dynamic Database	300,000			
Static Database	20,000,000			
Response	A thousand comparisons per second			
Modeling Success Rate	More than 99%			
Detection	Search the captured images according to time or location Supports single or batch export.			
Recogntion	Search comparison results according to time or location. Supports single or batch export			
Facial Attributes	Analysis features including gender, age, expression, glasses, moustache, mouth mask.			
Library	Supports register library add, delete, edit, search, and batch import and export.			
Blacklist	Blacklist can be divided into multiple database.			
Duplication Check	Support single - library self - checking and multi - library cross - check.			
Network				
Interface	Dual gigabit port network card			
Storage				
SDD	M.2 SSD 240G × 2 (Raid1)			
HDD	20T, 4T SATA HDD x 5. Up to 120T.			
Auxiliary Interface				
USB 3.0	4			
RS232	1			
Display				
VGA	1			
Electrical				
Power Supply	AC 100-240V			
Redundant Power	Hot-plug Redundant Power			
Redundant Fan	Hot-plug Redundant Fan			

Power Consumption	Platinum 750W	
Environmental		
Operating Conditions	10°C~35°C 10%~80% RH (29°C)	
Storage Conditions	-40°C~65°C 5%~95% RH (33°C)	
Construction		
Size	681.7mm(L) x 482mm(W) x 86.8mm(H) (2U)	
Weight	30kg	
Installation	Standard 19-inch Rack-mounted	
Certifications		
CE	Yes	
FCC	Yes	

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Ordering Information					
Туре	Part Number	Description			
IVS	DHI-IVS-F7500-P	Face Recognition Server			
IPC	DH-IPC-HF8242F-FD	Face Detection Network Camera			
	PLZ21C0-D	Lens			
Platform	DSS PRO	DSS PRO			

Dimensions(mm) Za-Zc Zb Xa Xb **TOP VIEW** Bezel or outer most <u>feature</u>

Relevant Products



Xa	482.0mm	Xb	434.0mm
Υ	86.8mm	Za	35.84mm
Zb	647.07mm	Zc	681.755mm

SIDE VIEW

