dahua
TECHNOLOGY

DHI-IVS-F7200-P

Face Recognition Server

· Intel Xeon E3-1245V5 3.5G, 4C/8T
· NVIDIA TESLA P4 GPU, using GPU P4 for intelligent deep learning and computing
· 64GB DDR4 ECC memory
· 16T, 4 × 4T SATA HDD
· Up to 30 channels face recognition
· Dynamic Database 300,000
· A total of 999 dynamic databases can be built
· Blacklist real-time alarm
· Support 1:1; 1:N; n:N for comparison

Deep · Sense

| Face Recognition | Metadata | Image Search | Blacklist Alarm |

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

The complete lineup of Dahua DeepSense 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.

Functions

Face Recognition
Up to 30 channel real time face recognition, front-end face detection but back-end recognition. Model building face picture 30 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.

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.

Onvif

Technical Specification

System

Main Processor	Intel Xeon E3-1245V5
GPU	NVIDIA Tesla P4
Memory	64GB
Operating System	Linux

Artificial Intelligence

Channel	Up to 30 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
Response	A thousand comparisons per second
Capture Success Rate	More than 98%
Modeling Success Rate	More than 99.9%
Recognition Success Rate	More than 97%
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 Ethernet port

Storage

HDD	16T, 4T SATA HDD x 4. Up to 40T.

Auxiliary Interface

USB 3.0	4
RS232	2

Display

VGA	1

Electrical

Power Supply	AC 220V
Power Consumption	160W

Environmental

Operating Temperature	0℃~40℃
Operating Humidity	35%~40% RH

Construction

Size	550mm(D) x 438.5mm(W) x 43.2mm(H) (1U)
Installation	Standard 19-inch Rack-mounted

Certifications

CE	Yes
FCC	Yes

Ordering Information

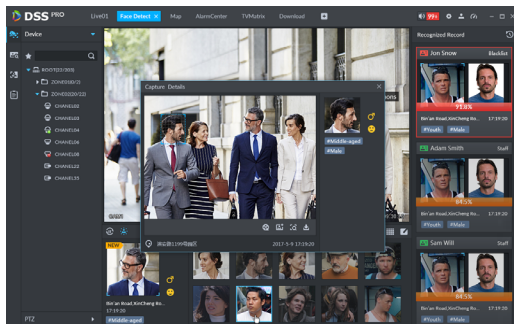| Type	Part Number	Description
IVS	DHI-IVS-F7200-P	Face Recognition Server
Client	IFC	Face Recognition Client for free
IPC	DH-IPC-HF8242F-FD	Face Detection Network Camera
	PLZ21C0-D	Lens
Platform	DSS PRO	DSS PRO

Client
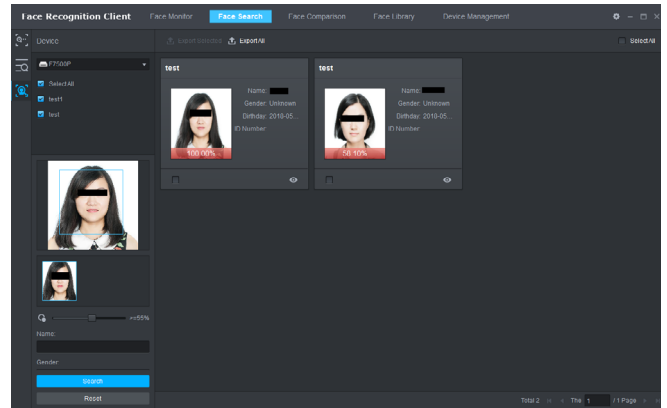
Relevant Products

DH-HF8242F-FD

DSS Pro

Client Functions

· Server Add, Camera Add

· Face search

· Face matching, matching pattern 1:1; 1:N; n:N

· Support for custom face database, support for adding, modifying and deleting

· Supports camera control to ensure that a channel can be compared in real time

· Supports uploading videos and compares faces with video analysis

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