

Ex-C-Face Module

Face Big Data Module



System Overview

The Face Big Data Module uses the analysis capabilities of intelligent face devices to compare face images analyzed from videos against the face database, matching the images to specified similarities, and releasing alarms. It supports recording and searching through all face images to quickly identify a person, releasing early warnings for detected fugitives and key persons for police officers to effectively combat criminals. At the same time, it uses face clustering technology to generate a face big data pool, which can produce one archive for each face, excavating the behaviors of key persons for early warning and effective control.

Functions

Search by Image

Performs quick searches for face images by face database, passerby database, and one face and one archive database. A single search returns results in just seconds.

Face Alarm

Supports subscribing to alarms according to device, face database, and alarm similarity, displaying alarm information on the map. You can also search for historical alarm data, display face alarm information according to person and location, and have alarms that are triggered by the same person filtered out.

One Face One Archive

Recognizes the identity of a person by comparing the passerby database against the person identity database (such as the permanent population database). It also supports searching for person archive records according to ID card No. and face image. In person archive records, the movement path and the activity frequency of a target can be displayed by date and location.

*DH-IVS-F7500 series products are required

- Search by image: Search for the face image in the face database, passerby database, passerby archives, and more, and have results returned in seconds.
- Redlist: People added to the redlist cannot be searched and found. This helps protect the privacy of special groups of people or designated people.
- Person arming and control: Add face images to the face database for arming and control. When the face recognition succeeds, an alarm record will be generated, and the record will be sent to the face big data module in seconds.
- One face one archive: Create an archive for each image of the same face, differentiate each image with time, space and identity information to analyze the movement path and the frequency with which a person produces certain activities.
- Abundant tactics: Uses one face one archive and big data analysis technologies to calculate and analyze massive amounts of face records, and to search for results that meet your requirements, such as companion search, frequency analysis, gathering analysis, analysis based on space and time, and analysis of first appearance, disappearance in N days, and on vehicles that only come out in the night.

Abundant Tactics

Leverages one face one archive and big data analysis technologies to calculate and analyze massive amounts of face records, and to search for results that meet your requirements. Tactics can be divided into search tactics and task tactics. Search tactics includes frequency analysis, companion search, analysis based on space and time, first appearance, and location analysis. Task tactics includes gathering together various analysis, disappearance in N days, unregistered person modeling, registered person modeling, stranger real-time alarm, and vehicles that only come out in the night.

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Vehicle and Related Person Search

Enter accurate or fuzzy plate numbers to search for related records of people and vehicles, and identify the driver and front-seat passenger. In the details, you can obtain vehicle owner information, including name, ID No., photo, and can also compare the photo against the captured image to check whether they are the same person.

*9 MP ANPR camera is required

Scene

The face big data module is suitable for large-sized, medium-sized and small-sized government projects that involve functions such as face recognition and arming, early warning, person movement path search, and tracking the frequency with which key persons carry out certain activities.

Technical Specification

Recommended System Requirements

Appearance	1U
Processor	2 × Intel Xeon 4208 2.1 GB 8C
Memory	32 GB
Hard Drive	Two 2 TB 3.5" HDD
	Two 480 GB 2.5" SSD
Embedded Network Adapter	Eight 1 Gbps network ports
Serial Port	1
VGA	2
USB	Three USB3.0 ports
Power Supply	550 W high efficiency platinum 110–240 VAC
Power Consumption	Less than 450 W in full load
Power Redundancy	1+1 redundant power
RAID Controller	H330

Ordering Information

Type	Model	Description
Basic Channel	Ex-C-Base Channel	[Included] The number of basic channels. These channels include video channel, alarm channel, and intercom channel
Basic Module	Ex-C-Base Module	[Included] Package of basic software functions. These functions include live view, video playback, event center, video on wall (basic channel required)
Face Big Data	Ex-C-Face Module	[Optional] Face big data module. It provides functions such as real-time face recognition, face image search, identity recognition, and face early warning
Face Big Data Channel	Ex-C-Face Channel	[Optional] Face recognition channel. Face big data module is required