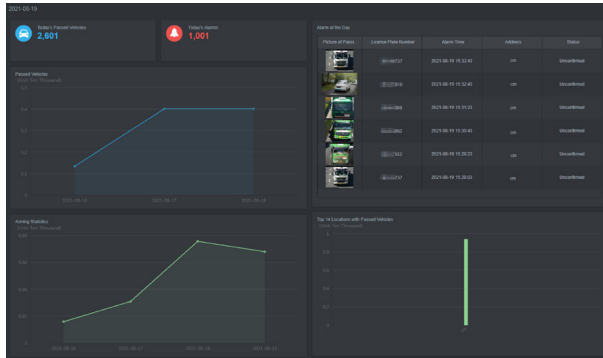# Ex-C-Vehicle Module
Vehicle Big Data Module

- Mass vehicle data and multi-dimensional search.
- Intelligent analysis of vehicles from multiple dimensions, such as type, color, and brand.
- Rich and flexible models for vehicle big data tactics.

System Overview

Powered by video cloud architecture, the Vehicle Big Data Module adopts technologies such as intelligent analysis, cloud search engine, big data analysis, and massive data mining to support the fast retrieval of data on passing vehicles, multi-dimensional feature retrieval, search for images by image, arming and control in seconds, and real-time warning. These functions make it convenient for you to quickly locate suspects, high-risk vehicles, target vehicles, important persons and geographic locations to effectively crack down on and control crimes.

Functions

Intelligent Vehicle Search

By using industry-specific big data search technology and intelligent vehicle analysis technology, the vehicle big data module manages massive vehicle data, and at the same time, supports searching for vehicle data based on a wide range of conditions, ensuring you quickly find target vehicles, and accurately track the movement path of target vehicles.

Arming and Alarm

Supports arming vehicles according to the precise plate number, fuzzy plate number, vehicle feature and vehicle database. You can make full use of the collected target vehicle information for rapid arming and response in seconds.

Tactics

To build big data analysis models, it carries out in-depth mining of massive vehicle data, police cases and of records kept on the experiences of officers who handled cases. These models are related to the first appearance of the target in the city, the frequency of their appearance, and their day and night appearances. This information is analyzed based on time and space. With this feature, target vehicles can be quickly searched for by setting flexible analysis conditions, or providing the necessary support for finding the target vehicle.

Penalty Point Analysis based on Big Data

Analyzes vehicle data in real time by using big data analysis technology. It recognizes and controls potential public security risks based on factors such as person, vehicle attributes and behaviors, and according to predefined penalty point rules.

Statistical Analysis

Uses big data analysis technology to produce statistical analysis on data such as passing vehicle records, arming and alarms, and penalty point analysis. It also generates visualized data on passing vehicle trends in an area, and the distribution of vehicle types, brands and key vehicles.

Scene

The vehicle big data module is suitable for large, medium and small government projects that involve storage and fast retrieval of massive vehicle data, vehicle movement path search, high-risk vehicle management and control, and more.

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] Several 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, and video on wall (basic channel required)
Vehicle Big Data Channel	Ex-C-Vehicle Channel	[Optional] ANPR channel. Vehicle big data module is required
Vehicle Big Data Module	Ex-C-Vehicle Module	[Included] Vehicle big data module. It provides functions such as real-time license plate recognition, passing vehicle search, and vehicle early warning
Vehicle Tactics Module	Ex-C-Vehicle Tactics Module	[Optional] Supports first appearance analysis, frequent pass analysis, and night activity analysis. It also supports analysis based on time and space, and on vehicles that only come out in the night.