dahua TECHNOLOGY

DHI-IVS-T8100-S-GU2
Vehicle Analysis Intelligent Server

- Clustered deployment and dynamic performance extension capability based on video cloud distributed architecture.
- Filter and search by time, channel, number plate, vehicle type, main brand, sub-brand and color.
- Support big data loading with two 10,000 M Ethernet ports.
- Store 3 billion eigenvalues.
- Perform 30 million vehicle comparisons in seconds.
- With standard rack, the server has high compatibility.

Motor Vehicle Attribute   Cluster   Image Search

System Overview

With AI by server, this vehicle analysis intelligent server is a high-performance picture comparison device, which integrates server resources and intelligent algorithm, and compares the features of vehicle pictures transmitted through network. Main functions: Search by vehicle picture.

Scene

This server applies to scenes with a high requirement on vehicle recognition. For example, highway ANPR/e-police, border, customs, public security, traffic, smart city and safe city.

Functions

Filter by Multiple Attributes

Filter and search by time, channel, number plate, vehicle type, main brand, sub-brand and color.

Fast Comparison

A server can perform 30 million vehicle comparisons in seconds. The searching time is less than 2 seconds no matter single device or cluster mode.
Store 3 billion eigenvalues.

Advanced Architecture

Clustered deployment and dynamic performance extension capability based on video cloud distributed architecture.

Search by Picture

Search by pictures or eigenvalues, and sequence the results according to similarity.

Select Features with Box

Select maximum 4 partial features of a vehicle with boxes.

Technical Specification

System

Main Processor	Two Intel Xeon Silver 4114T
Operating System	CentOS Linux release 7.4.1708 (Core)
Memory	Eight 16GB DDR4 memory, maximum 24 slots.
HDD	Five 3.5" 4T disk which can be extended to maximum 32T (each disk is 4T), and maximum 8 slots. 7.2K RPM SATA 6Gbps 512n 3.5"

Performance

Vehicle Search	One server completes the comparison of 30 million vehicle eigenvalues within 2 seconds.
Storage	Store 3 billion eigenvalues.

Ports

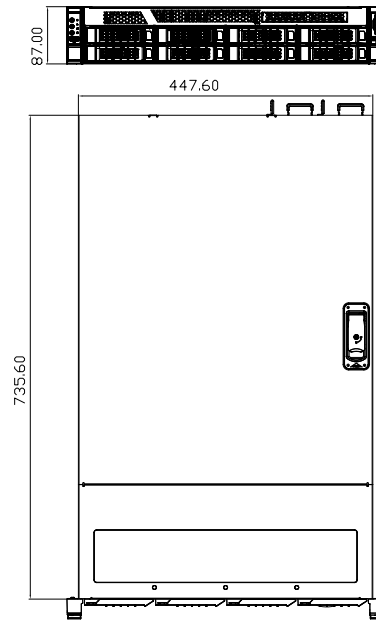|	
RJ45 Dedicated Management Port	One
VGA	Two
USB	Two front USB3.0 ports and three rear USB3.0 ports
Network	Two 10,000 M/1,000 M self-adaptive network ports

General

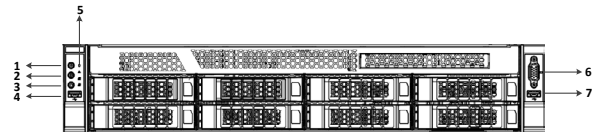|	
Power Redundancy	Dual power redundancy
Power Supply	100–127V/200–240V AC, 50/60Hz, 10A/5A
Power Consumption	≤ 800W
Dimensions	87 mm × 438 mm × 735 mm (3.4"× 17.2"× 28.9") (H × W × D)
Box Dimensions	273 mm × 754 mm × 1069 mm (10.7"× 29.7"× 42.1") (H × W × D)
Operating Temperature	10°C–35°C (50°F–95°F)
Operating Humidity	35%–80% RH, maximum relative humidity during operation is 90% RH (40°C)
Application Environment	Indoor
Net Weight	34 kg (74.9 lb.)
Gross Weight	26.5 kg (58.4 lb.)
Installation	Install with a rack.

Ordering Information

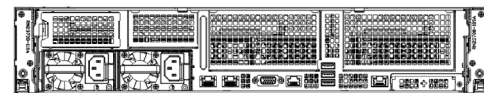| Type	Model	Description
Vehicle Analysis Intelligent Server	DHI-IVS-T8100-S-GU2	Vehicle Analysis Intelligent Server (Silver 4114T × 2, 16G × 8, 4T × 5, including dongle)

Dimensions (mm[inch])

Panels

1 Power Button	5 HDD/System Status/LAN1/LAN2 LED
2 ID Button	6 VGA Port
3 Reset Button	7 USB3.0 Port
4 USB3.0 Port	

1 Power Input1	5 VGA Port
2 Power Input2	6 Serial Port
3 LAN Port1	7 3*USB3.0 Port
4 LAN Port2	8 Management Port