# Fusion Big Data Server

## Introduction

As a professional product, the fusion big data server is designed for storing, searching, and analyzing massive structured data. The server can realize rapid search of human face, body, and vehicle data. It also can realize functions of searching by picture, trace analysis, area comparison, etc.

The fusion big data server is widely applicable to varied scenes, including traffic, public security, finance, education, health, enterprise, industrial park, etc.

## Feature

- **Application Function**

  Supports fuzzy search via setting searching conditions like time range, camera, and human face/vehicle/vehicle attribute.

  Supports similarity matched searching for single model or multiple models.

  Supports trace information statistics via model comparison.

  Supports data area comparison to find data that meet searching conditions.

- **High Performance**

  Supports storing and searching of 800 million pieces of human face data, 2 billion pieces of vehicle data, and 1 billion pieces of human body data.

  Supports accelerated searching by picture function for 30 million pieces of human face/vehicle/human body data.

  Supports multi-dimensional data integration and storage, and data association.

- **Reliability**

  Adopts cluster linear expansion to realize the flexible expansion of storage and performance.

  Adopts multi-duplicate data saving and fault tolerance mechanism to realize automatic recovery.

  Supports system disaster tolerance to keep the server running when any node in cluster has fault.

## Available Model

DS-VBD1HH-UF/H

# Specification

| Model | DS-VBD1HH-UF/H | | |
|---|---|---|---|
| Data type (mixed storage for multiple data types) | Human face data | Human body data | Vehicle data |
| Storage capacity (storage capacity for single data type) | 800 million pieces of human face data | 1 billion pieces of human body data | 2 billion pieces of vehicle data |
| Search by picture (storage capacity for single data type) | Accelerated searching for 30 million pieces of structured data | | |
| Application function | Attribute search, search by picture, area comparison, frequently appeared person analysis, destination analysis, companion analysis, statistics analysis, human arming, etc. | Attribute search, statistics analysis, search by picture, etc. | Vehicle search, trace search, facial masking in night, entering downtown for first time, frequent entrance & exit, area comparison, search by picture, vehicle with fake license plate analysis, model arming, etc. |
| Hardware | | | |
| Mainboard | CPU | Intel ® Xeon® 4114 CPU x 2 | |
| | Memory | 256 GB DDR4 | |
| | Hard disk drive | 240 GB M.2 x 2 + 480 GB SSD x 6 + 4 TB 7.2 K SATA × 2 (RAID_1) | |
| Interface | Network interface | 1GbE×4 | |
| | USB interface | USB 2.0 interface x 2, USB 3.0 interface x 2 | |
| | VGA interface | 1 | |
| General | Chassis specification | 19 inch 2 U standard chassis | |
| | Power module | Hot-plugged efficient 1+1 redundant power module | |
| | Power consumption | 750W | |
| | Storage temperature | -40°C to +70°C (-40°F to 158 °F) | |
| | Working temperature | +5°C to +35°C (41°F to 95 °F) | |

| | Working humidity | 8 % to 90 % (without condensation) |
|---|---|---|
| | Dimension | 715.5 × 482 × 86.8 mm (28.2 × 19.0 × 3.4 inch) |
| | Net Weight | 26.5 kg (58.4 lb) |

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