

## **Intelligent Fusion Server**

#### Introduction

Intelligent fusion server, equipped with professional GPU card, integrates deep learning-based algorithms of facial analysis, picture structuralization and video structuralization. It combines analysis, storage and application as one. By recognizing, analyzing, modelling and comparing pictures of faces, human bodies or vehicles, the intelligent fusion server can perform functions as list alarm, creating personnel archives, personnel trace analysis, searching by human body picture, vehicle arming, and so forth.

The intelligent fusion server is widely applied for city, community, school, company, industrial area and other face recognition scenarios.



### **Key Features**

- Integrates analysis, storage and application as one, and applicable to various scenarios.
- Concurrent analysis of Max. 20 channels of 1080P network cameras for a single device.
- Face picture analysis and processing of Max. 120 pieces per second for a single device.
- Provides Max. 30 million pieces of pictures and data storage for a single device.
- Performs various functions, including list alarm, personnel archive, personnel trace analysis, search by human body
  picture, and vehicle arming, etc. via web application interface.
- Equipped with professional GPU accelerator and integrates deep learning-based intelligent algorithms.
- Supports cluster deployment to deal with balanced load, dynamic adding and failover.
- Supports adding Max. 5 devices under cluster mode.

### **Available Model**

DS-IE6332-E/FA

SF Version: DS-IE6332-E/FA (C)

# **Specification**

Processing Part   Processing Pr	Model			DS-IE6332-E/FA		
Face picture analysis and comparison   Format: jpeg, bmp, tif, png		•	Analysis type			
Face picture analysis   List Library   3 million pictures in total (≤ 128 list libraries)			•	· ·		
Device performance   Video structured data analysis   Analysis of human body and vehicle pictures   Analysis of human body and vehicle videos   Analysis of human body or vehicle size ≤ 10 GB, and total video size ≤ 100 GB; Max. 40 times accelerated analysis speed; Format: ts, swa, mbf, ps, mp4, avi, asf   Format: ts, swa, mbf, ps, mp4, avi, asf   Format: ts, swa, mbf, ps, mp4, avi, asf   Supports sist alarm, stranger alarm, frequently appeared person alarm, and license plate alarm.   1∨ 1 comparison   Supports rapid and accurate comparison of 2 face pictures.   Smart search   Supports classifying captured personnel and creating archives for them.   Supports monitoring device operation status.   Personnel archive   Supports monitoring device operation status.   Mainboard   Mainboard   Memory   128 GB   Hard disk   240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB 7.2K × 3   FQU   NVIDIA Tesla T4 × 1   Network interface   USB 2.0 × 2 + USB 3.0 × 2   USB 3.0			•	20 channels (1080 P)		
Device performance    Device performance   Imported video analysis   Single video size \$ 10 GB, and total video size \$ 100 GB   Max. 40 times accelerated analysis speed   Format: ts, svac, mbf, ps, mp4, avi, asf   Supports analysis and modelling for human bodies or vehicles in pictures, real-time videos or recordings.   30 pieces/second; and vehicle pictures   Analysis of human body and vehicle pictures   Analysis of human body and vehicle videos   20 channels (1080 P)   Single video size \$ 10 GB, and total video size \$ 100 GB;   Max. 40 times accelerated analysis speed;   Format: ts, svac, mbf, ps, mp4, avi, asf   *The analysis of face pictures, face videos, human body or vehicle pictures, and human body or vehicle videos are exclusive performance.   Picture and structured data   30 million   30 million   20 channels (1080 P)   20 channe			List Library	3 million pictures in total (≤ 128 list libraries)		
Device performance			1 V 1 comparison	22 pairs/second		
Video structured data analysis   Analysis Type   Analysis and modelling for human bodies or vehicles in pictures, real-time videos or recordings.			Imported video analysis	Max. 40 times accelerated analysis speed		
Video structured data analysis   Analysis of human body and vehicle videos   20 channels (1080 P)			Analysis Type	Supports analysis and modelling for human bodies or		
Viceo structured data analysis   Analysis of human body and vehicle videos				· ·		
Mainboard   Analysis   And vehicle videos   Single videos (1980 P)		Video structured	-	Format: jpeg, bmp, tif, png		
Imported video analysis   Max. 40 times accelerated analysis speed; Format: ts, svac, mbf, ps, mp4, avi, asf		data analysis	•			
* The analysis of face pictures, face videos, human body or vehicle pictures, and human body or vehicle videos are exclusive performance.    Data storage			Imported video analysis	Max. 40 times accelerated analysis speed;		
Data storage   Picture and structured data   30 million		* The analysis of face	e pictures, face videos, human b			
List library 10 million (including 3 million alarm library)  Alarm Supports list alarm, stranger alarm, frequently appeared person alarm, and license plate alarm.  1 V 1 comparison Supports rapid and accurate comparison of 2 face pictures.  Smart search Supports searching faces, human bodies or vehicles by attributes or pictures.  Personnel archive Supports classifying captured personnel and creating archives for them.  Device operation and maintenance Supports monitoring device operation status.  CPU Intel * Xeon* CPU x 1  Memory 128 GB  Hard disk 240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB 7.2K × 3  GPU NVIDIA Tesla T4 × 1  Network interface Gigabit Ethernet self-adaptive interface × 4  USB interface USB 2.0 × 2 + USB 3.0 × 2  VGA interface 2						
Hardware  Alarm  Alarm  Supports list alarm, stranger alarm, frequently appeared person alarm, and license plate alarm.  1 V 1 comparison  Supports rapid and accurate comparison of 2 face pictures.  Supports searching faces, human bodies or vehicles by attributes or pictures.  Personnel archive  Device operation and maintenance  CPU  Intel * Xeon* CPU x 1  Memory  128 GB  Hard disk  240 GB M.2 x 1 + 480 GB SSD x 3 + 8 TB 7.2K x 3  GPU  NVIDIA Tesla T4 x 1  Network interface  USB 2.0 x 2 + USB 3.0 x 2  VGA interface  2  VGA interface  2  VGA interface  2		Data storage	Picture and structured data	30 million		
Web application  I V 1 comparison Supports rapid and accurate comparison of 2 face pictures.  Smart search Supports searching faces, human bodies or vehicles by attributes or pictures.  Supports classifying captured personnel and creating archives for them.  Device operation and maintenance  CPU Intel **Xeon** CPU x 1  Memory 128 GB  Hard disk 240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB 7.2K × 3  GPU NVIDIA Tesla T4 × 1  Network interface USB 1.0 × 2 + USB 3.0 × 2  VGA interface VGA interface 2			List library			
Web application    Smart search   Supports searching faces, human bodies or vehicles by attributes or pictures.	Web application		Alarm	person alarm, and license plate alarm.		
Web application attributes or pictures.  Personnel archive Supports classifying captured personnel and creating archives for them.  Device operation and maintenance Supports monitoring device operation status.  CPU Intel ® Xeon® CPU x 1  Memory 128 GB  Hard disk 240 GB M.2 x 1 + 480 GB SSD x 3 + 8 TB 7.2K x 3  GPU NVIDIA Tesla T4 x 1  Network interface Gigabit Ethernet self-adaptive interface x 4  USB interface USB 2.0 x 2 + USB 3.0 x 2  VGA interface 2			1 V 1 comparison	pictures.		
Hardware    Device operation and maintenance   Supports monitoring device operation status.			Smart search	attributes or pictures.		
Hardware    Mainboard   CPU   Intel * Xeon* CPU x 1			Personnel archive			
$\begin{tabular}{ll} \begin{tabular}{ll} \beg$				Supports monitoring device operation status.		
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Hard disk 240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB 7.2K × 3  GPU NVIDIA Tesla T4 × 1  Network interface Gigabit Ethernet self-adaptive interface × 4  USB interface USB 2.0 × 2 + USB 3.0 × 2  VGA interface 2			Memory	128 GB		
Hardware  Network interface  Gigabit Ethernet self-adaptive interface × 4  USB interface  USB 2.0 × 2 + USB 3.0 × 2  VGA interface  2			Hard disk	240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB 7.2K × 3		
Network interface Gigabit Ethernet self-adaptive interface × 4  USB interface USB 2.0 × 2 + USB 3.0 × 2  VGA interface 2			GPU	NVIDIA Tesla T4 × 1		
Interface  USB interface  USB 2.0 × 2 + USB 3.0 × 2  VGA interface  2		Interface	Network interface	Gigabit Ethernet self-adaptive interface × 4		
VGA interface 2			USB interface	-		
		General	Chassis specification	19 inch 2 U standard chassis		



	Power module	Hot-plugged efficient 1+1 redundant power module
	Power consumption	750 W
	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 (L × W × H)	715.5 mm × 482 mm × 86.8 mm (28.2 inch × 19.0 inch × 3.4 inch)
	Package size (L × W × H)	965 mm × 670 mm × 320 mm (38.0 inch × 29.4 inch × 12.6 inch)
	Net Weight	25.14 kg (55.42 lb)
	Total Weight	34.32 kg (75.66 lb)

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