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

Model			DS-IE6332-E/FA
Device performance	Face picture analysis	Analysis type	Supports analysis, comparison and classification of faces in pictures, real-time videos or recordings.
		Picture analysis and comparison	120 pieces/second; Format: jpeg, bmp, tif, png
		Video analysis and comparison	20 channels (1080 P)
		List Library	3 million pictures in total (≤ 128 list libraries)
		1 V 1 comparison	22 pairs/second
		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
	Video structured data analysis	Analysis Type	Supports analysis and modelling for human bodies or vehicles in pictures, real-time videos or recordings.
		Analysis of human body and vehicle pictures	30 pieces/second; Format: jpeg, bmp, tif, png
		Analysis of human body and vehicle videos	20 channels (1080 P)
		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
	* The analysis of face pictures, face videos, human body or vehicle pictures, and human body or vehicle videos are exclusive performance.		
	Data storage	Picture and structured data	30 million
		List library	10 million (including 3 million alarm library)
Web application		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.
Hardware	Mainboard	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
	Interface	Network interface	Gigabit Ethernet self-adaptive interface × 4
		USB interface	USB 2.0 × 2 + USB 3.0 × 2
		VGA interface	2
	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)