

DS-IX2001-A3U/X **Intelligent Fusion Server**



Intelligent fusion server, equipped with professional GPU card, integrates deep learning-based algorithms of picture and video structuralization. It is a collection of analysis, storage and application. By recognizing, analyzing, modelling and comparing pictures of vehicles, the intelligent fusion server can perform functions as list alarm, creating personnel archives, vehicle arming, and so forth.

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

▪ Specification

Model		DS-IX2001-A3U/X
Product Description	System Version	CentOS 7.8
	Device Version	V1.2.0
	Platform Version	HCP 2.0 HCE 1.1.1 HCM Lite 1.1.1
	Device Type	All-in-one
	Analysis Type	Supports analysis, comparison and classification of faces in pictures, real-time videos or recordings.
	Recognition Accuracy	99%
	Face Picture Analysis and Comparison	170 pieces/second Format: JPEG, BMP, TIF, PNG
	Face Video Analysis and Comparison	30 channels (2 MP) 12 channels (2 MP to 5 MP) 6 channels (5 MP to 8 MP)
	Concurrent Performance-1 V 1 Comparison	30 pairs per second
	Blocklist Alarm-Response Time	1 s
	Max. Number of List Libraries	128
	Max. Number of Arming Lists	3 million
	Max. Number of Static Lists	10 million
	Data Type	Picture, video
	Imported Video Analysis	Single video size ≤ 10 GB, and total video size ≤ 100 GB Max. 40 times accelerated analysis speed Format: MP4, AVI, TS, PS, MBF, ASF, SVAC
	Facial Video Format	Resolution: 720 P to 8 MP Real-time video stream: H.264, Hikvision H.265 Local recording: H.264, Hikvision H.265
	Video Frame Rate Requirement	12 to 30 frames per second (25 frames per second recommended)

	Face Picture Format	JPEG, BMP, TIF, PNG
	Face Picture Requirement	Face analysis target: Resolution: 48 × 48 to 4096 × 4096 (16 MP) Size: ≤ 8 MB Pupil distance: 20 to 300 pixels recommended Face angle deviation: Face analysis: ≤ 35° (vertical); ≤ 55° (horizontal) Face picture of list library: ≤ 25° (vertical); ≤ 30° (horizontal)
Video Structuralization	Analysis Type	Supports analysis and modelling for human bodies or vehicles in pictures, real-time videos or recordings.
	Vehicle Attribute	Vehicle color, vehicle type, vehicle main brand, license plate number
	Analysis of Vehicle Videos	25 channels (2 MP) 16 channels (2 MP to 5 MP) 8 channels (5 MP to 8 MP)
	Analysis of Vehicle Pictures	60 pieces per second
	Recognition Accuracy	99%
	Data Type	Picture, video
	Imported Video Analysis	Single video size ≤ 10 GB, and total video size ≤ 100 GB Max. 40 times accelerated analysis speed Format: MP4, AVI, TS, PS, MBF, ASF, SVAC
	Video Format	Resolution: 720 P to 8 MP Real-time video stream: H.264, Hikvision H.265
	Video Frame Rate Requirement	12 to 30 frames per second (25 frames per second recommended)
	Picture Format	JPEG, BMP, TIF, PNG
	Human Body Picture Requirement	Resolution: 256 × 256 to 4096 × 2160 (8 MP) Human body width: 70 to 300 pixels recommended Completeness: the blocking area should be less than 30 percent of the target Angle deviation: the depression angle should be no greater than 45°
	Vehicle Picture Requirement	Resolution: 256 × 256 to 4096 × 2160 (8 MP) Vehicle width: 100 to 300 pixels recommended License plate width: 80 to 120 pixels recommended Angle deviation: less than 30°(horizontal) and 25°(vertical), modelling for both the front and rear
Data Storage	Picture and Structured Data	30 million
	Search by	2 s

	Vehicle Picture-Response Time	
Web Application	Alarm	Blocklist, allowlist, and license plate
	1V1 Comparison	Supports rapid and accurate comparison of 2 face pictures
	Personnel Archive	Support
	Smart Search	List library search, capture library search, alarming search
	Number of License Plate Arming Lists	≤ 1000
	Device Operation and Maintenance	Support
Product Performance	Algorithm Type	Vehicles
	Algorithm Version	DFR V5.0.310; FD V5.0.310; HMS V4.4.0
	Authorization Type	Soft Encryption
	Protocol Type	ISAPI
	Cluster Capacity	≤ 5
	Video Accelerating Capacity	40
Hardware Specifications	CPU	Intel Xeon Gold 6230 × 1
	Memory	128 GB
	Network Interface	Gigabit Ethernet self-adaptive interface × 4
	Max. Power Consumption	445 W
	Rated Power Consumption	750 W
	Chassis Height	87 mm (3.4 inch)
	HDD Specification	240 GB M.2 × 1 + 480 GB SSD × 2 + 8 TB SATA × 3
	GPU Card	Tesla T4 × 1
	PSU	Hot-plugged efficient 1+1 redundant power module
	External Interfaces	USB 2.0 × 2 + USB 3.0 × 2 + VGA × 2
	Device Dimensions	715.5 mm × 482 mm × 86.8 mm (28.2 inch × 19.0 inch × 3.4 inch)

	Package Dimensions	965 mm × 670 mm × 320 mm (38.0 inch × 29.4 inch × 12.6 inch)
Physical and Environmental Parameters	Storage and Transportation 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)
	Net Weight (without package)	18.25 kg (40.23 lb.)
	Gross Weight (with package)	35.13 kg (77.44 lb.)

▪ Available Model

DS-IX2001-A3U/X

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