

DS-IX2002-A3U/X Intelligent Fusion Server



Intelligent fusion server, equipped with professional GPU card, integrates deep learning-based algorithms of facial analysis, picture structuralization and video structuralization. It is a collection of analysis, storage and application. 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 in city, community, school, company, industrial area and other face recognition scenarios.

- Integrates analysis, storage and application as one, and applicable to various scenarios
- Concurrent analysis of Max. 60 channels of 1080P network cameras for a single device
- Face picture analysis and processing of Max. 340 pieces per second for a single device
- Provides Max. 50 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.





Specification

Model		DS-IX2002-A3U/X		
Product	Algorithm Type	Faces, human bodies or vehicles		
Performance	Cluster Capacity	≤5		
	Data Type	Picture, video		
	Analysis Type	Supports analysis, comparison and classification of faces in		
	Analysis Type	pictures, real-time videos or recordings.		
	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	12 to 20 frames per second /25 frames per second recommende		
	Requirement	12 to 30 frames per second (25 frames per second recommended		
	Face Picture Format	JPEG, BMP, TIF, PNG		
		Face analysis target:		
		Resolution: 48 × 48 to 4096 × 4096 (16 MP)		
		Size: ≤ 8 MB		
	Face Picture Requirement	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)		
	Face Attribute	Gender, age, expression, smile, as well as behaviors of wearing a		
Face Analysis	race Attribute	mask, or glasses		
	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		
	Face Video Analysis and	60 channels (2 MP)		
	Comparison	24 channels (2 MP to 5 MP)		
		12 channels (5 MP to 8 MP)		
	Face Picture Analysis and	340 pieces/second		
	Comparison	Format: JPEG, BMP, TIF, PNG		
	Max. Number of Arming Lists	3 million		
	Max. Number of List	128		
	Libraries			
	Max. Number of Static Lists	10 million		
	Concurrent Performance	30 pairs per second		
	-1 V 1 Comparison	So pano per second		
	Blocklist Alarm-Response	1 s		
	Time			
	Data Type	Picture, video		
Video	Analysis Type	Supports analysis and modelling for human bodies or vehicles in		
Structuralization		pictures, real-time videos or recordings.		
Structuralization	Video Format	Resolution: 720 P to 8 MP		
	Video i oriniac	Real-time video stream: H.264, Hikvision H.265		



		50 L (0.10)	
	Analysis of Human Body and	50 channels (2 MP)	
	Vehicle Videos	32 channels (2 MP to 5 MP)	
	V:1 5 5 1	16 channels (5 MP to 8 MP)	
	Video Frame Rate Requirement	12 to 30 frames per second (25 frames per second recommended)	
	Analysis of Human Body and Vehicle Pictures	120 pieces per second	
	Picture Format	JPEG, BMP, TIF, PNG	
	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	
		Resolution: 256 × 256 to 4096 × 2160 (8 MP)	
		Human body width: 70 to 300 pixels recommended	
	Human Body Picture Requirement	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	
		Gender, age, hair style, clothes type, clothes color, as well as the	
	Human Body Attribute	following behaviors: wearing a hat, a mask, or glasses; carrying a	
		bag or luggage; driving a non-motor vehicle (the number of	
		passengers, vehicle type, vehicle size, driving direction, driving	
		speed)	
	V. I. I. Aug d.	Vehicle color, vehicle type, vehicle main brand, license plate	
	Vehicle Attribute	number	
	Picture and Structured Data	50 million	
Data Storage	Search by Face Picture- Response Time	2 s	
	Search by Human Body Picture-Response Time	2 s	
	Search by Vehicle Picture- Response Time	2 s	
	Alarm	Blocklist, allowlist, high frequency, and license plate	
Web Application	1V1 Comparison	Supports rapid and accurate comparison of 2 face pictures	
	Smart Search	List library search, capture library search, alarming search	
	Number of License Plate	≤ 1000	
	Arming Lists	2 1000	
	Personnel Archive	Support	
	Device Operation and Maintenance	Support	
	CPU	Intel Xeon Gold 6230 × 2	



	Memory	256 GB	
	GPU Card	Tesla T4 × 2	
	Rated Power Consumption	1600 W	
	Max. Power Consumption	750 W	
	Network Interface	Gigabit Ethernet self-adaptive interface × 4	
Hardware	External Interfaces	USB 2.0 × 2 + USB 3.0 × 2 + VGA × 2	
Specification	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)	
	Chassis Height	87 mm (3.4 inch)	
	HDD Specification	240 GB M.2 × 1 + 480 GB SSD × 3 + 8 TB SATA × 4	
	PSU	Hot-plugged efficient 1 + 1 redundant power module	
	Storage and Transportation Temperature	- 40 °C to 70 °C (- 40 °F to 158 °F)	
Physical and	Working Temperature	5 °C to 35 °C (41 °F to 95 °F)	
Environmental	Working Humidity	8 % to 90 % (without condensation)	
Parameter	Net Weight (without package)	23.40 kg (51.59 lb.)	
	Gross Weight (with package)	35.52 kg (78.31 lb.)	

^{*}The analysis of face pictures, face videos, human body and vehicle pictures, and human body and vehicle videos are exclusive performance.



Available Model

DS-IX2002-A3U/X

Di	str	ibu	ited	by

HIKVISION°

Headquarters

No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 overseasbusiness@hikvision.com

Hikvision USA T+1-909-895-0400 sales.usa@hikvision.com

Hikvision Australia T +61-2-8599-4233 salesau@hikvision.com

Hikvision India T +91-22-28469900 sales@pramahikvision.com

Hikvision Canada T+1-866-200-6690 sales.canada@hikvision.com

Hikvision Thailand T +662-275-9949 sales.thailand@hikvision.com Hikvision Europe T +31-23-5542770 sales.eu@hikvision.com

Hikvision Italy T+39-0438-6902 info.it@hikvision.com

Hikvision Brazil T +55 11 3318-0050 Latam.support@hikvision.com

Hikvision Turkey T +90 (216)521 7070- 7074 sales.tr@hikvision.com

Hikvision Malaysia T+601-7652-2413 sales.my@hikvision.com Hikvision UK & Ireland T +01628-902140 sales.uk@hikvision.com

Hikvision South Africa Tel: +27 (10) 0351172 sale.africa@hikvision.com

Hikvision France T +33[0]1-85-330-450 info.fr@hikvision.com

Hikvision Kazakhstan T +7-727-9730667 nikia.panfilov@hikvision.ru

Hikvision Vietnam T +84-974270888 sales.vt@hikvision.com Hikvision UAE T +971-4-4432090 salesme@hikvision.com

Hikvision Singapore T +65-6684-4718 sg@hikvision.com

Hikvision Spain T +34-91-737-16-55 info.es@hikvision.com

Hikvision Tashkent T +99-87-1238-9438 uzb@hikvision.ru

Hikvision Hong Kong T +852-2151-1761 info.hk@hikvision.com Hikvision Russia T +7-495-669-67-99 saleru@hikvision.com

Hikvision Korea T +82-{0}31-731-8817 sales.korea@hikvision.com

Hikvision Poland T +48-22-460-01-50 info.pl@hikvision.com

Hikvision Indonesia T+62-21-2933759 Sales.Indonesia@hikvision.com

Hikvision Colombia sales.colombia@hikvision.com