HIKVISION

Full analysis series video cloud structured server is a professional video intelligent structured server. As an image fusion analysis system, it adopts the new intelligent analysis chip. The server can realize the running of multiple algorithms and flexible scheduling based on algorithm group, as well as conduct structured video analysis, facial analysis, and vehicle analysis. It is widely applicable to various industries, including public security, traffic, finance, judicature, energy, culture, education, health, etc.

- Adopts full analysis to execute multiple algorithms, like facial, vehicle and video structuration for pictures or videos
- High density GPU design with high computing capacity to manage large scale projects
- Supports cluster deployment to meet balanced load, dynamic adding, and failover
- Supports algorithm group to execute grouped management of multiple algorithms like facial, vehicle and video structuration
- Supports intelligent analysis and application according to demands
- Adopts dynamic switching among multiple algorithms to provide flexible scheduling

▪ **Specification**

Model		DS-IF1032-03U/X
Vehicle Analysis	Picture Format	JPG/JPEG, BMP, PNG, TIFF/TIF, Static GIF
	Vehicle Picture Requirement	Vehicle resolution: larger than 256 × 256 pixels (recommended) License plate width: 60 to 300 pixels (recommended) Angle deviation: less than 30° (horizontal) and 15° to 30° (vertical)
	Vehicle Attribute	License plate number, license plate type, license plate color, vehicle color, vehicle type, vehicle main brand, vehicle direction And the following behaviors: fasten safety belt or not, open the sunshield or not, use mobile phone or not, manned or unmanned (for tricycle), with or without an umbrella tent (for tricycle)
	Analysis Performance of Vehicle Picture	6 million per day (2 MP) 3 million per day (7 MP)
Product Description	System Version	CentOS 7.6
	Device Type	All-in-one
	Device Version	V3.3.0
Product Performance	Authorization Type	Device Encryption
Face Analysis	Facial Video Format	720P to 8 MP, standard H.264/H.265 Resolution: 1920 × 1080; head and shoulders width: 40 to 300 pixels Angle deviation: less than 60°(horizontal) and 30°(vertical) The ratio of covered to overall area should be less than 40%
	Video Frame Rate Requirement	25 fps
	Face Picture Format	JPG/JPEG, BMP, PNG, TIFF/TIF, Static GIF
	Face Picture Requirement	Resolution: 106 × 126 to 16 MP (Picture size: ≤ 8 MB) Pupil distance: 20 to 300 pixels recommended Face angle deviation: less than 45° (horizontal); 20° (vertical) Face picture angle of list library: ≤ 25° (vertical); ≤ 30° (horizontal) Clear and complete without colored-glasses and light reflection The ratio of covered to overall area should be less than 20% Pupil distance: ≥ 40 pixels
	Max. Number of Arming Lists	KT: 1 million
	Face Video Analysis and Comparison	32 channels (2 MP) 24 channels (2 MP to 5 MP) 12 channels (8 MP)
	Face Picture Analysis and Comparison	1V1 comparison: 200 pairs per second Face picture analysis: 360 pieces per second
	Face Attribute	Age group, gender, smile, as well as the following behaviors: wearing a mask, or glasses

Video Structuration	Video Format	H.265, H.264
	Video Frame Rate Requirement	25 frames per second
	Picture Format	JPG/JPEG, BMP, PNG, TIFF/TIF, Static GIF
	Human Body Picture Requirement	Human body width: 80 to 300 pixels recommended Picture resolution: 256 × 256 to 9 MP recommended Clear and complete
	Vehicle Picture Requirement	Picture resolution: 256 × 256 to 9 MP Vehicle resolution: lager than 256 × 256 recommended License plate width: 80 to 180 pixels The included angle between the driving and vertical direction should be less than 45° Vertical angle deviation: 20° to 45°
	Analysis of Human Body and Vehicle Videos	32 channels (2 MP) 24 channels (5 MP) 12 channels (8 MP)
	Analysis of Human Body and Vehicle Pictures	3 million per day (2 MP) 2 million per day (8 MP)
	Human Body Attribute	Top type, top color, bottom type, bottom color, age group, gender, hair style, as well as the following behaviors: wearing glasses, a hat, or a mask, carrying a bag, a suitcase, or other stuffs, riding, vehicle type of riding, people number of riding, electric motorbike carrying a suitcase, tricycle with a tent
	Vehicle Attribute	Vehicle type, vehicle color, vehicle main brand, license plate number, license plate color, license plate type
Hardware Specification	Memory Parameters	8 GB
	Hard Disk	240 GB
	CPU	1 × E3-1225 v3
	GPU Card	6 × KT
	Max. Power Consumption	145 W
	Device Dimensions	439 mm (W) × 591 mm (D) × 44 mm (H) (17.28'' × 23.27'' × 1.73'')
	Package Dimensions	570 mm (W) × 780 mm (D) × 180 mm (H) (22.44'' × 30.71'' × 7.09")
	PSU	CRPS 550 W × 2
Physical and Environmental Parameter	Storage and Transportation Temperature	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉)

▪ **Available Model**

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