DS-IF1064-03U/X(海外标配)(A7)(V2)
DS-IF1064-03U/X(A7)

Full analysis series video cloud structured server is a professional video intelligent structured server. The server can realize the running of multiple algorithms and flexible scheduling based on algorithm group, as well as conduct structured video analysis, 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 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 vehicle, video structuralization

- Supports intelligent analysis and application according to demands

- Adopts dynamic switching among multiple algorithms to provide flexible scheduling

▪ Specification

Vehicle Analysis	
Data Type	Picture
Picture Format	JPG/JPEG, BMP, PNG, TIFF/TIF, Static GIF
Vehicle Picture Requirement	Vehicle resolution: larger than 256 × 256 pixels (recommended)
	License plate width: 80 to 240 pixels (recommended)
	Angle deviation: less than 30°(horizontal) and 15° to 30°(vertical)
Vehicle Attribute	Vehicle detection, vehicle modeling, vehicle attribute analysis, vehicle recognition; and the following behaviors: fasten safety belt or not, open the sunshield or not, use mobile phone or not
Analysis Performance of Vehicle Picture	116 pieces/second (2 MP)
	94 pieces/second (5 MP)
	70 pieces/second (9 MP)
Recognition Accuracy	Vehicle attribute: ≥85% (testing result)
Product Description	
System Version	CentOS 7.X
Device Type	All-in-one
Device Version	V3.3.12
Big Data Version	Fusion Big Data V1.6.2
Cloud Storage Version	Micro Video Cloud V3.1.1
Platform Version	HCM 1.0
Face Analysis	
Data Type	Picture, video
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 200 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	1 million
Face Video Analysis and Comparison	64 channels (2 MP)
	48 channels (2 MP to 5 MP)
	32 channels (5 MP to 8 MP)
Face Picture Analysis and Comparison	320 pieces per second

Recognition Accuracy	Detection, recognition and modelling for faces according to the second-generation ID card: ≥ 99% Detection and modelling for thumbnails of captured face pictures: ≥ 95% Proper alarm for face picture comparison: ≥ 85% (the similarity should be no less than 82%) Recognition for face attribute: ≥ 85%
Video Structuralization	
Data Type	Video
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: 70 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 240 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	64 channels (2 MP) 48 channels (2 MP to 5 MP) 32 channels (5 MP to 8 MP)
Analysis of Human Body and Vehicle Pictures	160 pieces/second (2 MP) 64 pieces/second (5 MP) 48 pieces/second (8 MP)
Vehicle Attribute	Vehicle model, Vehicle color, license plate number, Vehicle main brand.
Recognition Accuracy	Attribute recognition: ≥ 85%
Product Performance	
Authorization Type	Device Encryption
Algorithm Type	Vehicle picture analysis algorithm Facial picture/video analysis algorithm Video structuralization algorithm Security monitoring algorithm
Protocol Type	ISAPI
Cluster Capacity	Main and standby clusters available Mixed cluster with P4 and T4 available Concurrent performance: up to 3,000 channels of videos or 3,000 pictures
Algorithm Version	Face picture: V5.0.3 Vehicle: V3.5.1 Human body: V1.6.0
Hardware Specifications	
Memory Parameters	16 GB×2
CPU	Hygon3250*1
Hard Disk	240 GB
GPU Card	2 × KT2card
Chassis Height	1U

External Interfaces	USB 3.0 × 4 + USB 2.0 × 2 + VGA × 1
Max. Power Consumption	550W
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 Parameters	
Storage and Transportation Temperature	-40 ℃ to 70 ℃ (-40 ℉ to 158 ℉)
Net Weight (without package)	12 kg (26.46 lb.)
Gross Weight (with package)	16 kg (35.27 lb.)

▪ Available Model

DS-IF1064-03U/X(A7)(V2)

▪ Accessory

▪ **Included**

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(A7)

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