ECS-516S-SF-HD 16-ch 1-SSD Intelligent Edge Computing Server

ECS-516S-SF-HD



Overview

ECS-516S-SF-HD is an industrial-grade intelligent analysis device that works with ordinary network cameras. The device is integrated with video decoding, data transmission, data storage, and intelligent algorithms. It receives videos from ordinary network cameras, analyzes objects in the videos, and outputs an alarm upon detection of an abnormal behavior. The device is easy to deploy, operate, and adapts to different environments.

The device utilizes deep learning algorithms to achieve fast and accurate and action analysis. It complies with industrial-grade standards, featuring a sophisticated and sturdy appearance, and is suitable for various indoor and outdoor application scenarios. The device offers abundant APIs to meet various application requirements and facilitate integration with third-party systems.

Features

- Supports 16-ch video stream based face snapshot and comparison, supports face-behavior linkage (identifying a person after detecting an abnormal behavior) .
- Supports 16-ch video stream based action analysis, offers algorithms for fire detection, smoke detection, illegal parking, evacuation route obstruction detection, item loss, perimeter protection (intrusion detection, enter area, leave area, cross line detection), sleep on duty detection, absence detection, area people counting, people exceed the limit, no hard hat detection, no work clothes detection, no reflective clothing detection, smoking detection, calling detection, tripwire people counting, fall detection, no mask detection, long stay detection, fight detection, and using mobile phone detection.
- Supports generating alarm videos/images and reporting alarm information.
- Supports H.264 and H.265 video streams.
- Supports connecting 16 third-party cameras via Onvif and RTSP.
- Dual Gigabit network interfaces enable dual-network IP settings to adapt to different networking environments.
- Supports browser-based access and control.
- Lightweight, fanless structure, flexible deployment, suitable for harsh conditions including dusty, oily, very hot or very cold

environments.

Ordering Info

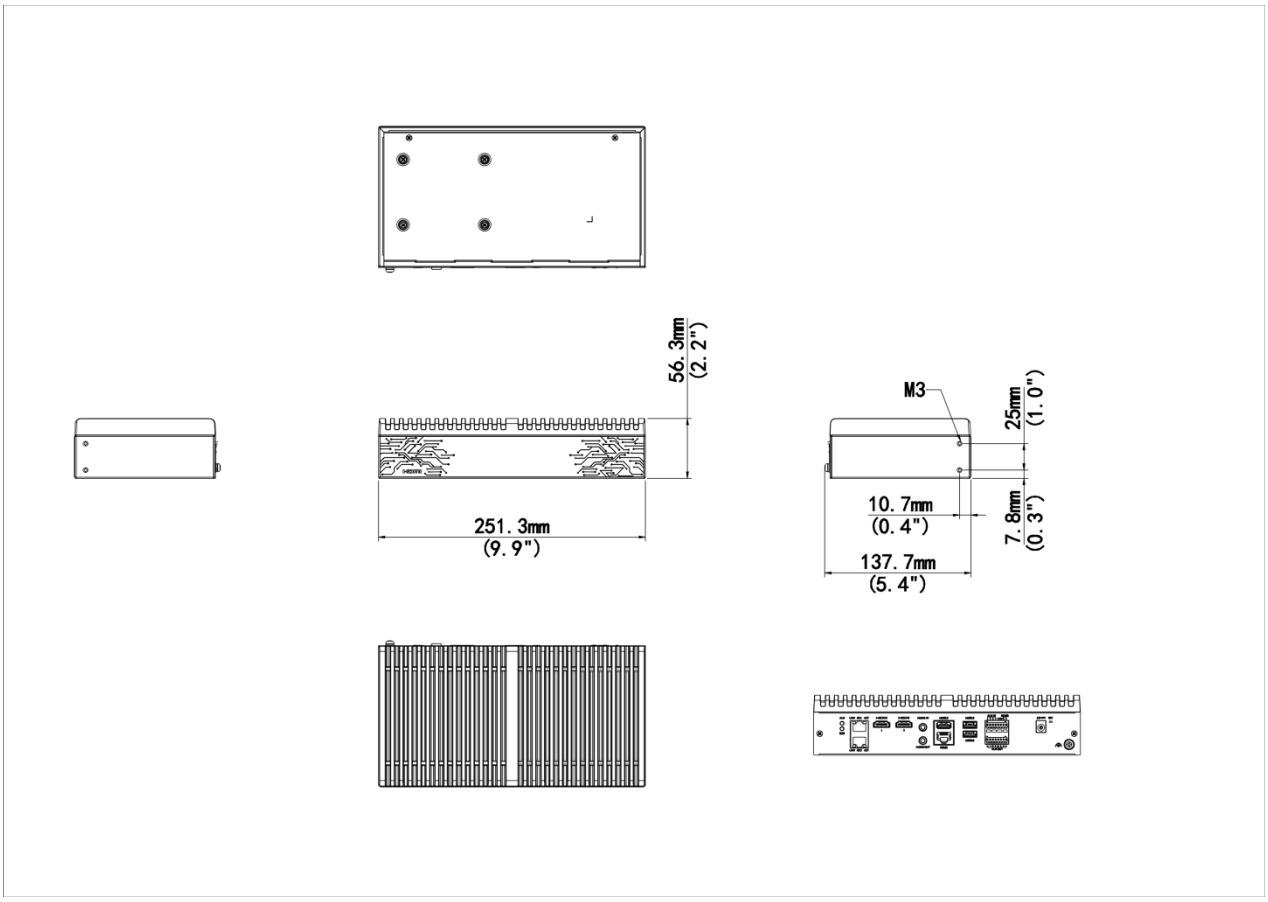
Product Model	Description
ECS-516S-SF-HD	16 Channels 1 Hard Disk Intelligent Edge small station

Specifications

Model	ECS-516S-SF-HD
BOM	
BOM	0235C9KL
VCA	
Smart	1, General functions: face detection, Intrusion Detection (support pedestrians, motor vehicles, and nonmotorized vehicles), Overcrowding Detection, Area People Counting, Tripwire People Counting, Preset Marker Detection, Enter Area, Leave Area, Cross Line Detection 2, Environmental safety: Fire Detection, Fume Detection, Evacuation Route Obstruction, Object Removed, Rat Detection, Dog Detection, Uncovered Soil Detection, Improper Stacking Of Materials, Trash Bin Open Detection, Trash Bin Overflow, Exposed Trash, Bagged Trash, Charging Gun Not In Place Detection, Gas Cylinder Detection, No Fire Extinguisher Detection, Dump Truck Without Tarp Detection, Oil Leak Detection, Water Leak Detection, Gas Leak Detection, Test Paper Color Change Detection, Unattended Fire Detection, Ground Water Accumulation Detection, Animal Intrusion Detection [wild boar, bear, tiger, other animals (cat, dog, cow, horse, sheep, pig, leopard, wolf, deer, kangaroo)], Elevator Entrance Detection, Light-On Detection, Long Queue Detection, Equipment Detection 3, Personal wearing safety clothing: No Hard Hat Detection, No Work Clothes Detection, No Reflective Clothing Detection, No Mask Detection, Shirtless Detection, No Chef Uniform Detection, No Chef Hat Detection, No Safety Harness Detection, No Safety Belt Detection, No Safety Goggles Detection, No Safety Gloves Detection, No Dust/Gas Mask Detection, Exposed Long Hair Detection 4, Personnel behavior safety: Sleep On Duty Detection, Absence Detection, Smoking Detection, Calling Detection, Using Mobile Phone Detection, Fall Detection, Climbing Detection, Long Stay Detection, Fight Detection, Crowd Detection, Quick Moving Detection, Inadequate Worker, Knife/Stick In Hand Detection, Hand Detection, Pedestrian Reverse Motion Detectoin, Reverse Motion On Escalator Detection 5, Vehicle safety: Illegally Parked Motor Vehicle, Illegally Parked Non-Motor Vehicle, Campus Vehicle Congestion Detection, Forklift Overspeed Detection, Vehicle Entering/Exiting Service/Charging Station, Campus Entrance/Exit Lpc, Illegal Fueling Detection, Construction Vehicle Detection, Vehicle Washing Detection (Vehicle Washing Detection, VehicleBypassingToAvoidWashing, InsufficientVehicleWashingWaterVolume), Campus Vehicle Overspeed Detection, Forklift Detection 6, Expressway Event: Litter Detection, Traffic Accident Detection, Vehicle Underspeed Detection, Vehicle Driving Away Detection, Fog Detection, Abnormal Parking Detection, Non-Motor Vehicle Intrusion Detection, Emergency Lane Occupation Detection, Pedestrian Intrusion Detection, Vehicle Wrong-Way Driving Detection, Road Snow Accumulation Detection, Vehicle Congestion Detection, Road Construction Detection, Traffic Parameters, Expressway Smoke and Fire 7.Water Resources/Urban Management: Restricted Area Fishing Detection, Water Outlet Discharge Detection, Ship Detection (Cargo ship, Sand carrier, Passenger ship)
Features	

Face detection	Supports up to 16 channels of 2MP video streams for real-time analysis, 12 channels of 4MP video streams for real-time analysis, 8 channels of 6MP and 8MP video streams for real-time analysis (Face detection, behavior analysis and Expressway Event cannot be enabled simultaneously on the same channel)
Face library capacity	128 face libraries, total 100,000 face images
Work clothes library capacity	8 work clothes libraries, a single storage capacity of 50 images
Algorithm self-learning	Support self optimization of some algorithms: Intrusion Detection Cross Line Detection Absence Detection Climbing Detection Long Stay Detection
Operating system	Linux
Operation entry	Web, HDMI, Recommend Web
Supported languages	English, Japanese
Video input	16-channel 2MP H.265 or H.264 cameras 12-channel 4MP H.265 or H.264 cameras 8-channel 6MP-8MP H.265 or H.264 cameras
Storage	
DDR RAM	8 GB DDR4
Hard disk	2.5-inch, 1TB SSD included
Alarm capacity	
Alarm image	Max 150,000 alarm images,
Alarm video	Max 150,000 alarm video clips,
Electrical property	
Operating temperature	-40~70℃
Operating humidity	5% to 90% (non-condensing)
Storage temperature	-40~70℃
Storage humidity	5% to 95% (non-condensing)
Power consumption	≤20W
Weight	≤1.5KG (with SSD)
Dimensions	56.3mm(H)×251.3mm(D)×137.7mm(W)
External interface	
Network interface	2 x 10M/100M/1000M adaptive Ethernet interfaces (RJ45)
USB interface	2 x USB2.0, 1 x USB3.0
Alarm input	4-ch
Alarm output	4-ch
Serial interface	1 x RS-485 (phoenix connector)
Power supply	12 V/2 A
Data Dock	
Websocket mode	√
HTTP/HTTPS mode	√
HTTP/HTTPS live	√
Compliance	
NDAA Compliant	Support

Dimensions



Unlimited New View

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*Product specifications and availability are subject to change without notice.

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