

# 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 adapt to different environments.

The device utilizes deep learning algorithms to achieve fast and accurate object 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

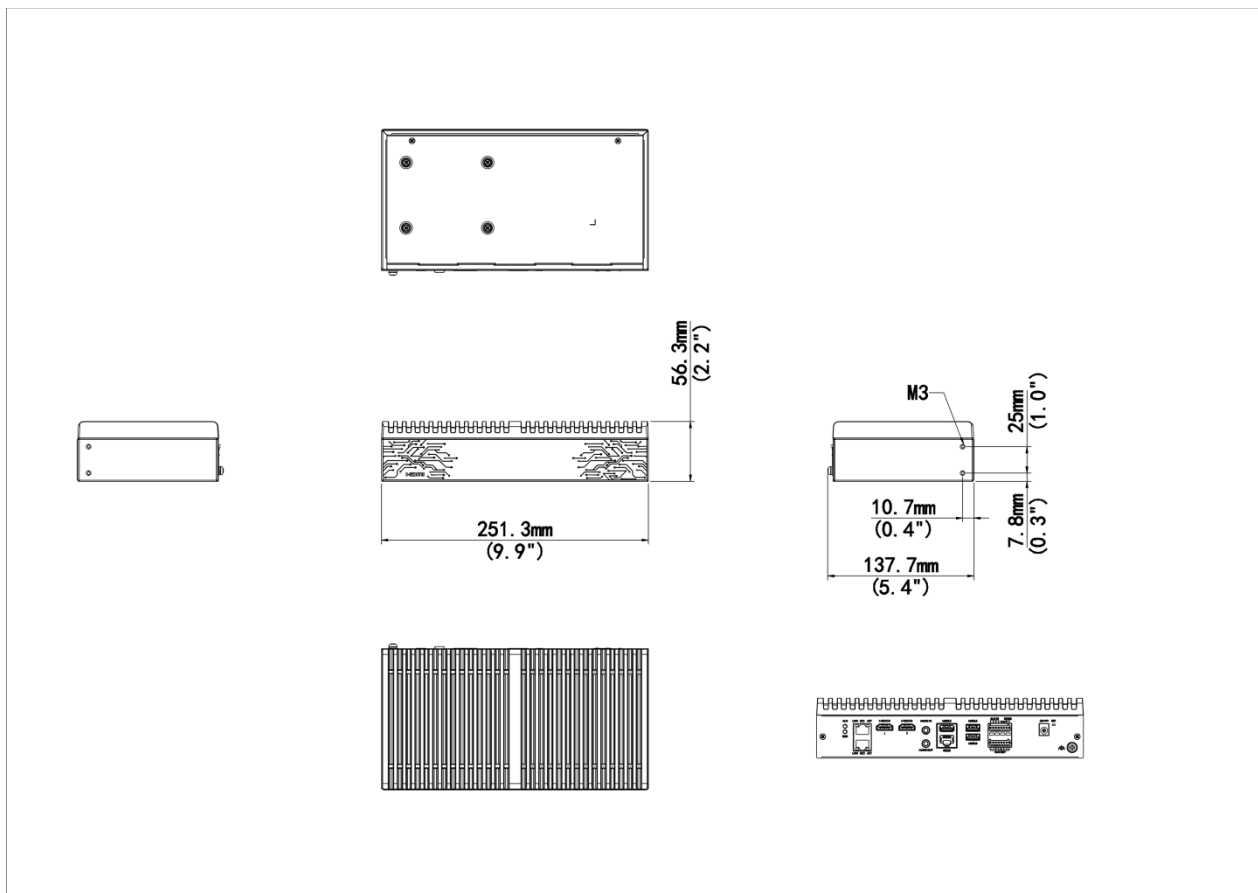
Product Model	Description
ECS-516S-SF-HD	16 Channels 1 Hard Disk Intelligent Edge small station

## Specifications

Model	ECS-516S-SF-HD
VCA	
Smart	<p>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</p> <p>2, Environmental safety: Fire Detection, Fume Detection, Evacuation Route Obstruction, Object Left Behind, 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</p> <p>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</p> <p>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</p> <p>5, Vehicle safety: Illegally Parked Motor Vehicle, Illegally Parked Non-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</p>
Features	
Face detection	16-channel (Face detection and behavior analysis 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
Storage	
DDR RAM	8GB DDR4

Hard disk	2.5-inch, 1TB SSD included
<b>Alarm capacity</b>	
Alarm image	Max 150,000 alarm images,
Alarm video	Max 150,000 alarm video clips,
<b>Electrical property</b>	
Operating temperature	-40~70°C
Operating humidity	5% to 90% (non-condensing)
Power consumption	≤20W
Weight	≤1.5KG (with SSD)
Dimensions	56.3mm(H)×251.3mm(D)×137.7mm(W)
<b>External interface</b>	
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	12V/3A
<b>Channel management</b>	
Protocol	rtsp,onvif
<b>Data Dock</b>	
Websocket mode	√
HTTP/HTTPS mode	√
HTTP/HTTPS live	√
<b>Compliance</b>	
NDAA Compliant	Support

## Dimensions



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