

4-8-16 Channel Edge Computing Server ECS-5XS Series Smart Box



Overview

ECS-5XS Series 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 face comparison 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 4/8/16-ch video stream based face snapshot and comparison, supports face-behavior linkage (identifying a person after detecting an abnormal behavior).
- Supports 4/8/16-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 4/8/16-ch third-party cameras via 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

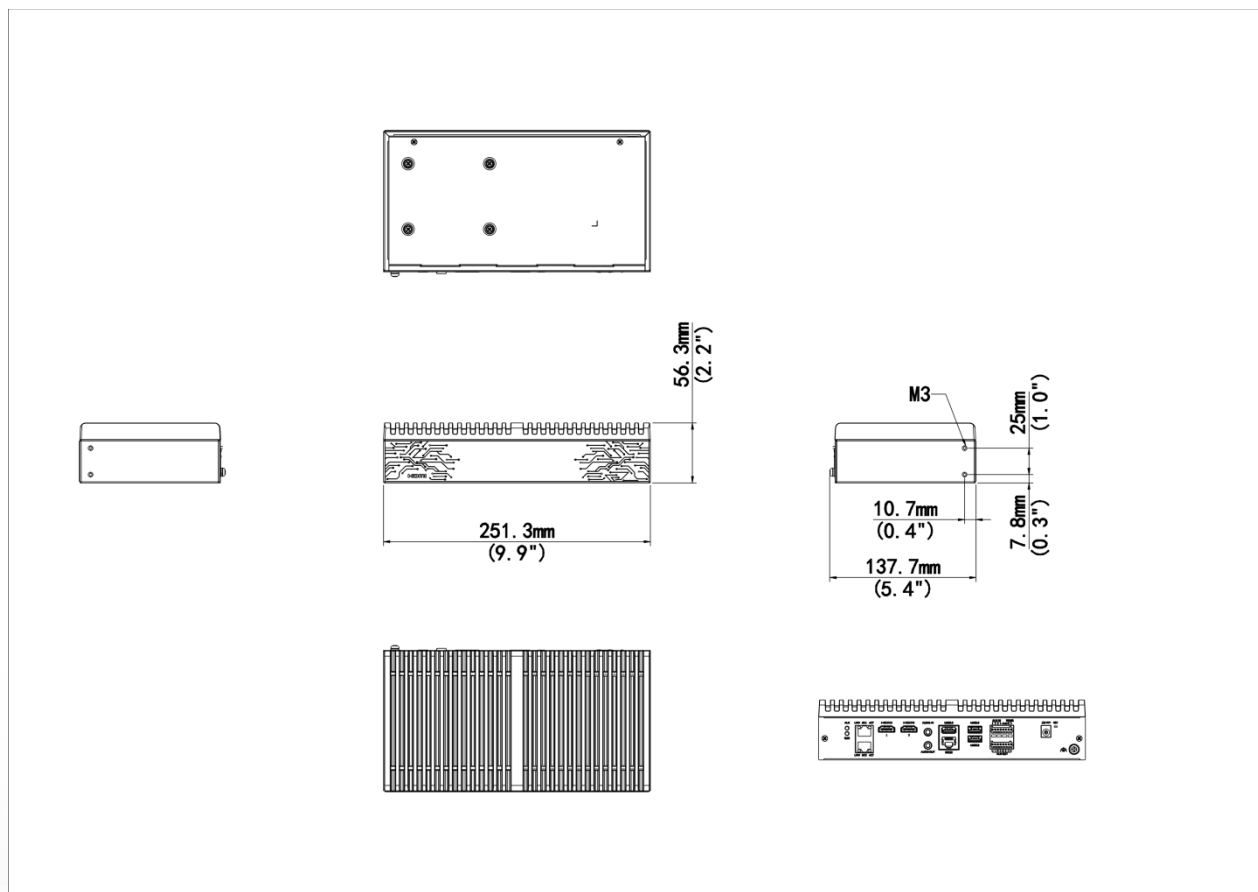
environments.

Specifications

Model	ECS-508S-SF-HA	ECS-504S-SF-HA	ECS-516S-SF-HD
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 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 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 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		
Features			
Face detection	8-channel (Face detection and behavior analysis cannot be enabled simultaneously on the same channel)	4-channel (Face detection and behavior analysis cannot be enabled simultaneously on the same channel)	16-channel (Face detection and behavior analysis cannot be enabled simultaneously on the same channel)
Face library capacity	128 face libraries, total 20,000 face images	128 face libraries, total 20,000 face images	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	4GB DDR4	8GB DDR4
Hard disk	2.5-inch, 128GB SSD included	2.5-inch, 128GB SSD included	2.5-inch, 1TB SSD included
Alarm capacity			
Alarm image	Max 20,000 alarm images,	Max 20,000 alarm images,	Max 150,000 alarm images,
Alarm video	Max 20,000 alarm video clips	Max 20,000 alarm video clips	Max 150,000 alarm video clips,
Electrical property			

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)
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	12V/3A
Channel management	
Protocol	Rtsp
Data Dock	
Websocket mode	√
HTTP/HTTPS mode	√
HTTP/HTTPS live	√
Compliance	
NDAA Compliant	Support

Dimensions



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