



IE9232-F

VAST Face Facial Recognition Workstation



Key Features

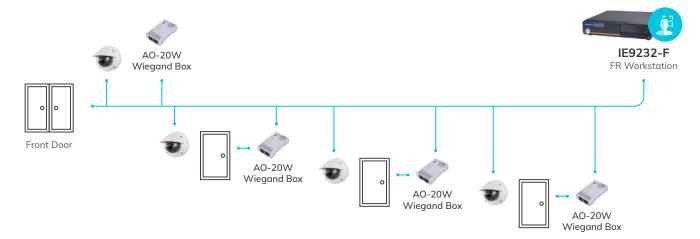
- Mask Detection and Recognition
- Enroll a Person's Profile with up to 5 Pictures
- Real-time Notifications and Alerts
- Persons of Interest (POI) Management
- Comprehensive Reports
- Support up 6 Cameras/Servers

Overview

IE9232-F is our next-gen AI-based Facial Recognition (FR) workstation, which collaborated with Advantech, the leading industrial PC manufacturer. For each visitor, facial profiles of up to 5 pictures captured from IP cameras are used for identification, leading to higher accuracy even under complex environments with changing ambient lighting. IE9232-F is applicable for use in access control and attendance management, supporting up to 6 cameras. An FR license is required for each camera, and an optional Wiegand box is needed for door access.



System Architecture



Key Features

Mask Detection and Recognition

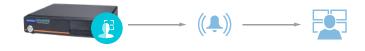
With the help of the hardware upgrade provided by Advantech, updated software, and facial profile enrollment of 5 nuanced pictures, mask detection and recognition of IE9232-F is faster and more accurate than the previous generation was.

nt of 5 nuanced pictures, mask detection and on of IE9232-F is faster and more accurate previous generation was. | Devices | Devices | Previous April | Devices | Dev

■ VASTFace

Live Notifications and Alerts

Real-time Notification on VIVOTEK VAST 2 whenever a POI has been identified.



Persons of Interest (POI) Management

Users can assign each person into one or more groups for easier identification (i.e., VIP, blocklist, staff, visitor) and auto-delete POI profiles based on a pre-defined date.



Comprehensive Reports

VAST Face Facial Recognition Workstation IE9232-F provides detailed reports for recognized and unrecognized faces. Employee clock-in reports can be automated with exception-based filters: No-Show, Late Arrival, and Early Leave. IE9232-F can also store system-triggered action logs. This enables users to use different search filters to sort through events seamlessly for quick investigations, then export the results to Excel as needed.





VAST Face Facial Recognition Workstation - IE9232-F	
Model	IE9232-F
Hardware	Intel CPU: i7, Memory: DDR4 32GB RAM, HDD: 2.5" 500GB SSD
os	Linux
Maximum Number of Faces in Database	50,000
Network	10/100Mb/1Gb Network
Maximum number of devices connecting	(Build-in 1CH) Up to: 6
Power Input	100-240V AC
Power Consumption	Max. 90W
Dimensions	240 x 210 x 57 mm (LWH)
Weight	Weight: 1.3 kg net and 2.1 kg gross
Saftity Certifications	CE, FCC,UL, CB, BSMI
System	
	Three Tier Server-client system:
Architecture	· Web Server
	· Application Server
	· Database Server
Supported OS	Ubuntu Server 20.04
Supported Protocols	HTTP & HTTPS
Supported Hypervisors	VMWare, Hyper-V, Virtual Box
Container Type	Docker
Database type	MongoDB
System security	· Single device login
	· Renewable session token
	· Hardened HTTPS
Management Interface	
Interface	Using Web client
Supported Browsers	· Google Chrome
	· Mozilla Firefox
Languages	· English
	· Traditional Chinese



Supported Image Sources	
	· Any H.264/H.265 RTSP IP Camera
Video Sources Configuration	
Region of Interest (ROI)	Setup ROI area for face capture
Face Capture Parameters	· Minimum capture face size
	· Frame capture interval
	· Side face filter
	· Biggest face only filter
Face Verification Parameters	· Minimum face recognition threshold
	· Merge recognized faces interval
Environmental Adaptability	
Comora Installation Height	· 3.0 meters max. camera height
Camera Installation Height	· Mounting position within 10 degrees inclination
Supported Image Modes	Color & Monochrome
	· Large expressions
	· Beard and hairstyles
Robust Against	· Eyeglasses
	· Caps and scarfs
	· Irregular lighting
	· Partial face occlusion
Supported Devices & Integrations	
I/O Relay	· Moxa E1214
	· Advantech ADAM 60XX
	· VIVOTEK AO-20W I/O Device



IP-to-Wiegand Converter	· Doorcard DCT-4TW26
	· VIVOTEK AO-20W Wiegand Box
HTTP Notifications	Send customized GET/POST HTTP messages
Others	· Use VAST Face RESTful API
Persons of Interest Management (POI)	
POI Management	· Enroll person using Web client.
	· Manage face profiles database through Web Portal
POI Authentication	· Using Face as a credential
	· Using Card Number
POL Groupe	· Default groups: VIP, Blacklist, Staff
POI Groups	· User defined person groups
POI Batch Enrollment	Supports bulk enrollment using Excel & .JPEG files
Enrollment Photo	· Min. face size = 200 x 200 pixel
Requirements	· 1MB Max. photo size (.JPG or .PNG)
POI Profile Information	· Name, ID #, card #, job position, email, phone, POI group(s), and expiration date
POI Reports	
Investigation Reports	Generate face recognition reports and filter events by:
	· Location
	· Time period
	· Person's name
	· POI Group
	· POI type (enrolled or stranger)

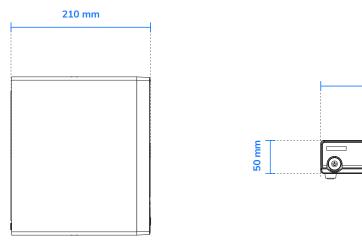


Attendance Reports	Generate staff clocking reports and filter events by:
	· Clock-in time
	· Clock-out time
	· Stay length
	· Late Arrival
	· Early Leave
Actions Reports	Generate a report for which pre-defined actions were triggered in response to an event.
Export Data	Export results to Excel file
Trigger Rules and System Actions	
	Rule based engine to trigger single or multiple system actions based on:
	· Event Location
	· Schedule
Pula Engine	· Detection time period
Rule Engine	· Specific POI profile
	· POI face group affiliation
	· Person type (enrolled or stranger)
	· POI is (not) a member of a group
	· Trigger I/O Relay
Supported System Actions	· Trigger IP-to-Wiegand converter
Supported System Actions	· Send HTTP GET/POST command
	· WebSocket notification
System Users Management	
System Users	Register user accounts using Name, E-Mail address & Phone number
System User Groups	· System Administrator
	- Super User
	· Person Manager
System Inter-compatibility	
Supported Products	· VIVOTEK VAST2 VMS/ CMS
	· VIVOTEK VAST Face Manager/CMS



Face Recognition Verticals	
	· Identify potential troublemakers (shoplifters, criminals or any other barred individuals)
	· Detect VIP members upon arrival to deliver a tailored experience
Possible Applications	· Provide physical entry to commercial buildings, residences, and other rooms
	· Contactless staff clock in system
	· Verify visitor's identity

Dimensions





240 mm