

IE9232-F VAST Face Facial Recognition Workstation



Key Features

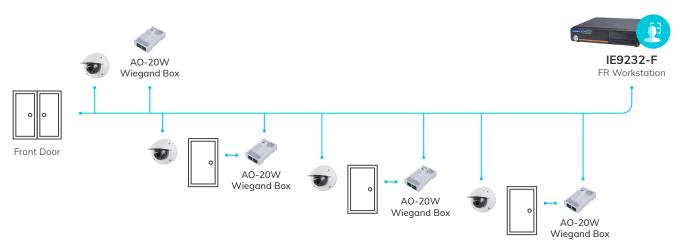
- Mask Detection and Recognition
- Enroll a Person's Profile with up to 5 Pictures
- Real-time Notifications and Alerts
- Persons of Interest (POI) Management
- Comprehensive Reports
- Support up 6 Cameras/Servers

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.

Live Notifications and Alerts

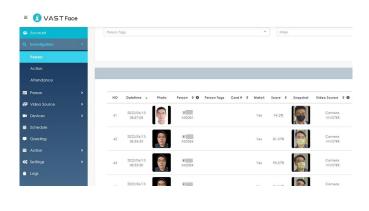
Real-time Notification on VIVOTEK VAST 2 whenever a POI has been identified.

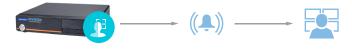
Persons of Interest (POI) Management

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.

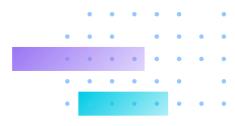






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| | * | | | | | | | | |
| Person | | NO | Person 0 | Person Tags | Entry Date 👻 | In Snapshot | In Video Source 0 | Departure Date | • • |
| Attendance | | 1 | 3t A00353 | | 2022/06/02 15:45:25 | | Camera VIVOTEK | 2022/06/02 16:49:28 | 1 |
| Person Video Source | > > | 2 | #E | | 2022/06/02 | | Camera VIVOTEK | 2022/06/02 | |
| Devices Schedule | • | 3 | E | | 2022/06/02 | | Camera | 2022/06/02 | 1 |
| Greeting | | | A01512 | | 14:54:10 | | VIVOTEK | 14:54:15 | |
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| 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 |

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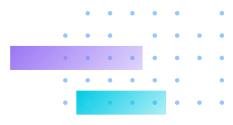
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|-----------------------|----------------------------------|
| | Three Tier Server-client system: |
| Architecture | · Web Server |
| Architecture | · Application Server |
| | · Database Server |
| Supported OS | Ubuntu Server 20.04 |
| Supported Protocols | HTTP & HTTPS |
| Supported Hypervisors | VMWare, Hyper-V, Virtual Box |
| Container Type | Docker |
| Database type | MongoDB |
| | · Single device login |
| System security | · Renewable session token |
| | · Hardened HTTPS |
| Management Interface | |
| Interface | Using Web client |
| Supported Browsers | · Google Chrome |
| Supported Browsers | · Mozilla Firefox |
| Languages | · English |
| Languages | · Traditional Chinese |
| | |



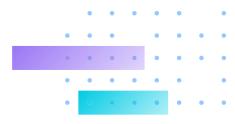
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| · VIVOTEK AO-20W I/O Device | I/O Relay | · Advantech ADAM 60XX |
| | | · VIVOTEK AO-20W I/O Device |



| 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 Managament | · Enroll person using Web client. |
| POI Management | · Manage face profiles database through Web Portal |
| POI Authentication | · Using Face as a credential |
| FOLAUITETIICAUOT | · Using Card Number |
| POI Groups | · Default groups: VIP, Blacklist, Staff |
| For 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 | \cdot Name, ID #, card #, job position, email, phone, POI group(s), and expiration date |
| POI Reports | |
| | Generate face recognition reports and filter events by: |
| | · Location |
| Investigation Paparta | · Time period |
| Investigation Reports | · Person's name |
| | · POI Group |
| | · POI type (enrolled or stranger) |
| | |

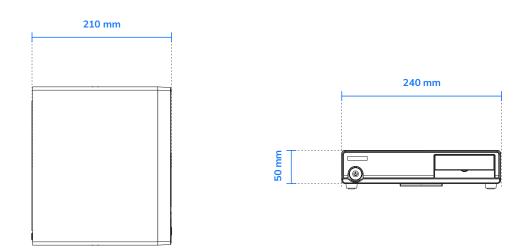


| | Generate staff clocking reports and filter events by: |
|----------------------------------|---|
| | · Clock-in time |
| Attendance Reports | · Clock-out time |
| Altendance Reports | · Stay length |
| | · Late Arrival |
| | · Early Leave |
| Actions Reports | Generate a report for which pre-defined 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 |
| Dula 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 Astions | 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 Administrator |
| System User Groups | · Super User |
| | · Person Manager |
| System Inter-compatibility | |
| Supported Draduate | · VIVOTEK VAST2 VMS/ CMS |
| Supported Products | · 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





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