



IE8221-F / IE8231-F VAST Face Facial Recognition Workstation

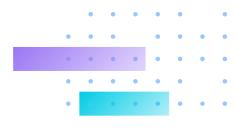
Key Features

- Live Notifications and Alerts
- Persons of Interest (POI) Management
- Comprehensive Reports
- Support up to 2 Cameras (IE8221-F) or 8 Cameras (IE8231-F)

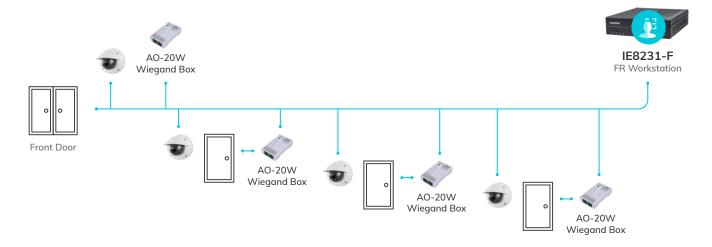
Overview

IE8221-F and IE8231-F are both advanced AI-based Facial Recognition (FR) workstations. Facial profiles captured from IP cameras are used for identification, even under complex environments with changing ambient lighting. Both models are applicable for use in access control and attendance management, supporting up to 2 cameras (IE8221-F) or 8 cameras (IE8231-F). A FR license is required for each camera, and an optional Wiegand box is needed for door access.





System Architecture



Key Features

Live Notifications and Alerts

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

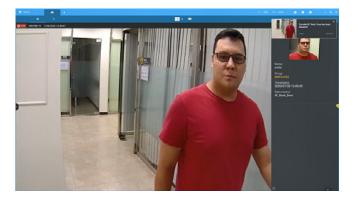
Persons of Interest (POI) Management

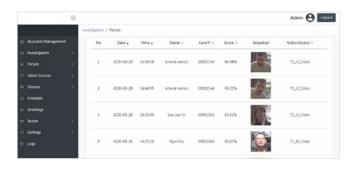
Users can assign each person into one or more groups for easier identification (i.e., VIP, blocklist, staff, visitor) and auto-delete POI profiles based on a pre-defined date.

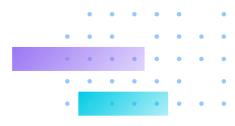
Comprehensive Reports

VAST Face Facial Recognition Workstation IE8221-F / IE8231-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. IE8221-F/IE8231-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.







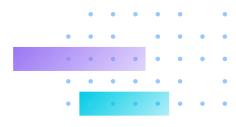


VAST Face Facial	Recognition	Workstation	- IE8221-F
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Model	IE8221-F
Hardware	Intel CPU: i5-10400, Memory: DDR4-2666 16GB RAM, HDD: 2.5" 500GB SSD
OS	Linux
Maximum Number of Faces in Database	20,000
Network	10/100Mb/1Gb Network
Maximum number of devices connecting	(Build-in 1CH) Up to: 2
Power Input	100-240V AC
Power Consumption	Max. 90W
Dimensions	190 x 165 x 43 mm (LWH)
Weight	Weight: 1.3 kg net and 2.1 kg gross
Saftity Certifications	CE, FCC

VAST Face Facial Recognition Workstation - IE8231-F	
Model	IE8231-F
Hardware	Intel CPU: i7-10700, Memory: DDR4-2666 32GB RAM, HDD: 2.5" 500GB SSD
OS	Linux
Maximum Number of Faces in Database	20,000
Network	10/100Mb/1Gb Network
Maximum number of devices connecting	(Build-in 1CH) Up to: 8
Power Input	100-240V AC
Power Consumption	Max. 90W
Dimensions	190 x 165 x 43 mm (LWH)
Weight	Weight: 1.3 kg net and 2.1 kg gross
Saftity Certifications	CE, FCC

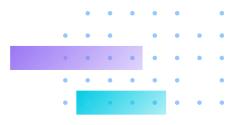
System	
Architecture	Three Tier Server-client system:
	· Web Server
	· Application Server
	· Database Server



Supported OS	Ubuntu Server 20.04
Supported Protocols	HTTP & HTTPS
Supported Hypervisors	VMWare, Hyper-V, Virtual Box
Container Type	Docker
Database type	MongoDB
	· Single device login
System security	· Renewable session token
	· Hardened HTTPS
Management Interface	
Interface	Using Web client
Supported Drawoon	· Google Chrome
Supported Browsers	· Mozilla Firefox
	· English
Languages	· Traditional Chinese
Supported Image Sources	
Supported IP cameras	· Any H.264 ONVIF IP Camera
	· Any H.264 RTSP IP Camera
	· Tigerwong
Supported face recognition tablets	· Smarfid 5"
	· Smarfid 8"
Supported still image formats	JPEG, PNG, BMP, Base64
Video Sources Configuration	
Region of Interest (ROI)	Setup ROI area for face capture
	Minimum capture face size
Face Capture Parameters	· Frame capture interval
	· Side face filter
	· Biggest face only filter
Face Verification Parameters	· Minimum face recognition threshold
	· Merge recognized faces interval
Environmental Adaptability	
Camera Installation Height	· 3.0 meters max. camera height
	Mounting position within 10 degrees inclination



Supported Image Modes	Color & Monochrome
Robust Against	· Large expressions
	· Beard and hairstyles
	· Eyeglasses
	· Caps and scarfs
	· Irregular lighting
	· Partial face occlusion
Supported Devices & Integrations	
	· Moxa E1214
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 Management	· Enroll person using Web client.
POI Management	Manage face profiles database through Web Portal
POI Authentication	· Using Face as a credential
FOLAutionication	· 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	
Investigation Reports	Generate face recognition reports and filter events by:
	· Location
	· Time period
	· Person's name
	· POI Group
	· POI type (enrolled or stranger)

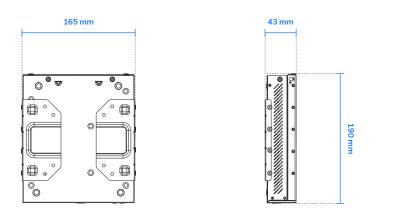


Attendance Reports	Generate staff clocking reports and filter events by:
	· Clock-in time
	· Clock-out time
	· Stay length
	· Late Arrival
	· Early Leave
Actions Reports	Generate a report for which pre-defined actions were triggered in response to an event.
Export Data	Export results to Excel file
Trigger Rules and System Actions	
	Rule based engine to trigger single or multiple system actions based on:
	· Event Location
	· Schedule
Rule Engine	· Detection time period
True Ligine	· 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
	· 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	· Administrator
	· VAST Face CMS
System Inter-compatibility	
Supported Products	· VIVOTEK VAST2 VMS/ CMS
	· VIVOTEK VAST Face CMS
	· VIVOTEK VAST FaceVisitor
Face Recognition Verticals	



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

Dimensions





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