



IE8221-F

Facial Recognition Workstation



Technical Specifications

Product Information	
Hardware	Intel CPU: i7, Memory DDR4 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 Connected Devices	(Build-in 1CH) Up to: 2
Power Input	100-240V AC
Power Consumption	Max. 90W
Dimensions	190 x 165 x 43 mm (LWH)
Weight	1.3 kg
Safety 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
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System	
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System Security	Single device login Renewable session token Hardened HTTPS
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Management Interface	
Interface	Using Web client
Supported Browsers	Google Chrome Mozilla Firefox
Languages	English Traditional Chinese

Supported Image Sources	
Supported IP Cameras	Any H.264 ONVIF IP Camera Any H.264 RTSP IP Camera
Supported Still Image Formats	JPEG, PNG, BMP, Base64
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

Environment Adaptability	
Camera Installation Height	3.0 meters max. camera height Mounting position within 10 degrees incline
Supported Image Modes	Color & Monochrome
Robust Against	Large expressions Beards, moustaches and different hairstyles Eyeglasses Caps and scarfs Irregular lighting Partial face obstruction

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 (POI) Management	
POI Management	Enroll person using Web client. Manage face profiles database through Web Portal
POI Authentication	Using Face as a credential Using Card Number
POI Groups	Default groups: VIP, Blacklist, Staff 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 facial recognition reports and filter events by: Location Time period 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 Engine	Rule based engine to trigger single or multiple system actions based on: Event Location Schedule Detection time period Specific POI profile POI face group affiliation Person type (enrolled or stranger) POI is (not) a member of a group
Supported System Actions	Trigger I/O Relay 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 User Groups	System Administrator Administrator VAST Face CMS

System Inter-compatibility

Supported Products	VIVOTEK VAST2 VMS/ CMS VIVOTEK VAST Face CMS VIVOTEK VAST FaceVisitor
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Facial Recognition Verticals

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