

VAST Face Manager

Facial Recognition System

New Features

- Network Audio Solution - Group broadcast and schedule broadcast
- Simplified License Key Activation
- Live View Virtual Trigger

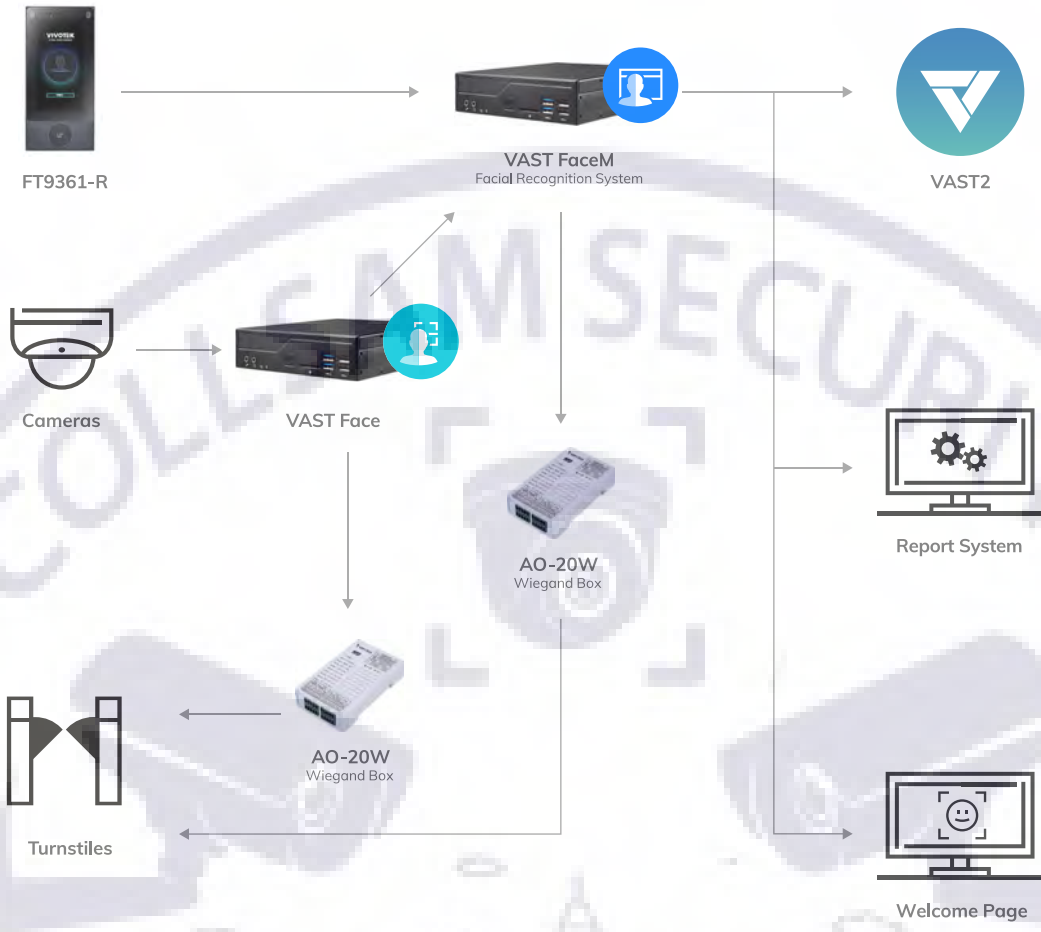
Key Features

- Password Protected Video Clips
- Smart Search II – People/Vehicle Search
- Multi Factor Authentication for Access Control
- Data Magnet Integration
- Video Content Analysis Integration
- System Overview Dashboard
- Matrix for Video Wall Solution
- Evidence Lock: Automatically Bookmark Related Recordings
- Evidence Export: Manually Export Video Recordings or Alarm Clips
- Multiple Fisheye Dewarp Modes
- Multi-Sensor Display Modes

Solutions

- License Plate Recognition Solution
- Cybersecurity Management Solution
- Transportation Solutions (License Required)
- CMS/Substations Failover Solutions (License Required)
- Transaction Solutions (License Required)
- Network Audio Solution (License Required)

System Architecture



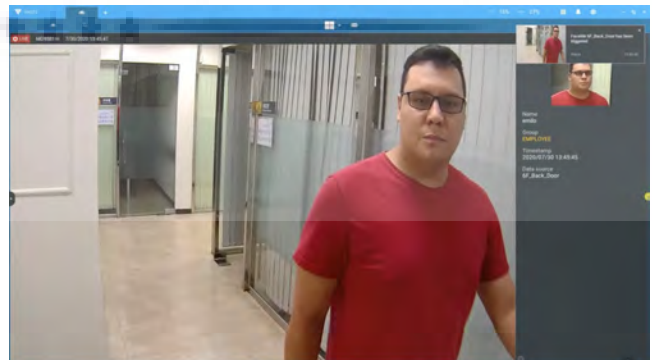
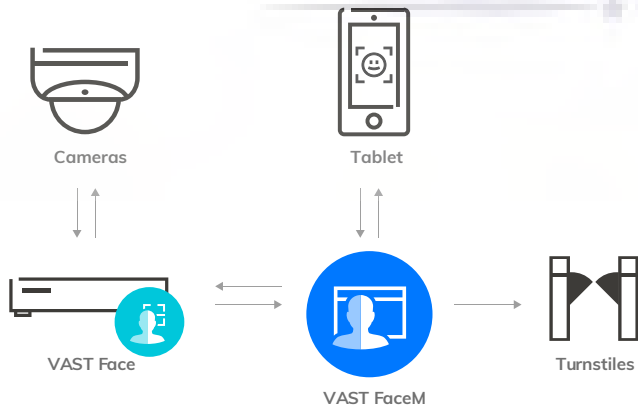
Key Features

Centralized Management System

VAST Face Manager is a centralized system, capable of managing a maximum of 128 connected facial recognition devices (camera, tablet, or other hardware). Through VAST Face Manager's single interface and person lists, entry conditions can be established, action definitions can be used for post searches, attendance investigations can be conducted, and facial profiles can be easily managed.

Accurate Authentication

Facial images are captured and verified in real-time with biometric authentication. Furthermore, deep learning analytics can accurately verify a person's identity even through makeup, beards, hats, glasses, or surgical masks, providing accurate authentication for a safe and secure environment.



Key Features

Highly Secure

Unlike with access control cards, facial recognition uses biometric credentials that cannot be transferred to others, thus greatly reducing the risk of fraudulent access or "buddy punching" for employees clocking in. Going a step further, VAST Face Manager allows users to define customized access authentication rules and schedules by area or by user group, providing more flexibility than traditional card-based access systems. Additional security checks such as body temperature levels and face mask detection are also available on VAST Face Manager.



Rich Infographic Reports

Facial images are captured and verified in real-time with biometric authentication. Furthermore, deep learning analytics can accurately verify a person's identity even through makeup, beards, hats, glasses, or surgical masks, providing accurate authentication for a safe and secure environment.

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- Account
- Investigation
- Monitoring
- Review
- Action
- Attendance
- Access Group
- Person
- Devices
- Schedule
- Greeting

NO	Person Type	Person	Tags	Entry Date	Departure Date	Stay Time	In Snapshot	Out Snapshot
1	Staff	Derek	• Staff	2021/11/02 10:19:12	2021/11/02 14:16:33	03:57:21		
2	Staff	za	• Staff	2021/11/02 11:18:07	2021/11/02 12:02:22	00:44:15		
3	Staff	劉宗輝 A02084	• Staff • Tony	2021/11/02 10:22:58	2021/11/02 13:48:27	03:25:29		
4	Staff	劉宗輝 A01599	• Staff	2021/11/02 10:09:43	2021/11/02 14:29:21	04:19:38		

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VAST Face Bundle Kit

VAST Face Manager Workstation- IE8213-FM

Model	IE8213-FM
Hardware	Intel CPU: i7-10700Memory: DDR4-2666 32GB RAM, HDD: 2.5" 500GB SSD
OS	Linux
Maximum Number of Faces in Database	50,000
Maximum Number of Connected Devices	Up to: 128
Power Input	100-240V AC
Power Consumption	Max. 90W
Dimensions	190 x 165 x 43 mm (LWH)
Weight	1.3 kg net and 2.1 kg gross
Safety Certifications	CE, FCC

Technical Specifications

Minimum Hardware Requirements*

CPU	Intel Core i7 (8th Generation) or higher CPU
RAM	32 GB or abpve
HDD	500GB or above
Network	10/100 Mb Network

* The above configuration can support up to 128 facial recognition cameras/tablets

System

Architecture	<p>Three Tier Server-client system:</p> <ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · Single device login · Renewable session token · Hardened HTTPS



Technical Specifications

Management Interface

Interface	Using Web client
Supported Browsers	<ul style="list-style-type: none">· Google Chrome· Mozilla Firefox
Languages	<ul style="list-style-type: none">· English· Traditional Chinese

Environment Adaptability

Camera Installation Height	<ul style="list-style-type: none">· 3.0 meters max. camera height· Mounting position within 10 degrees incline
Supported Image Modes	Color & Monochrome
Robust Against	<ul style="list-style-type: none">· Large expressions· Beards, moustaches and different hairstyles· Eyeglasses· Caps and scarfs· Irregular lighting· Partial face obstruction

Supported Devices & Integrations

I/O Relay	<ul style="list-style-type: none">· Large expressions· Beards, moustaches and different hairstyles· Eyeglasses
IP-to-Wiegand Converter	<ul style="list-style-type: none">· 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	<ul style="list-style-type: none">· Enroll person using Web client.· Manage face profiles database through Web Portal
POI Authentication	<ul style="list-style-type: none">· Using Face as a credential· Using Card Number
POI Groups	<ul style="list-style-type: none">· Default groups: VIP, Blacklist, Staff· User defined person groups
POI Batch Enrollment	Supports bulk enrollment using Excel & JPEG files



Technical Specifications

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

Generate facial recognition reports and filter events by:

- Location
- Time period
- Name
- POI Group
- POI type (enrolled or stranger)

Investigation Reports

Generate staff clocking reports and filter events by:

- Clock-in time
- Clock-out time
- Stay length
- Late Arrival
- Early Leave

Attendance Reports

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
- Detection time period
- Specific POI profile
- POI face group affiliation
- Person type (enrolled or stranger)
- POI is (not) a member of a group

Rule Engine

Supported System Actions

- Trigger I/O Relay
- Trigger IP-to-Wiegand converter
- Send HTTP GET/POST command
- WebSocket notification



Technical Specifications

System Users Management

System Users

Register user accounts using Name, E-Mail address & Phone number

System User Groups

- System Administrator
- Administrator
- VAST Face Manager

System Inter-compatibility

Supported Products

- VIVOTEK VAST2 VMS/ CMS
- VIVOTEK VAST FaceManager
- VIVOTEK VAST FaceVisitor

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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