

# IE8213-FM

## VAST Face Facial Recognition CMS

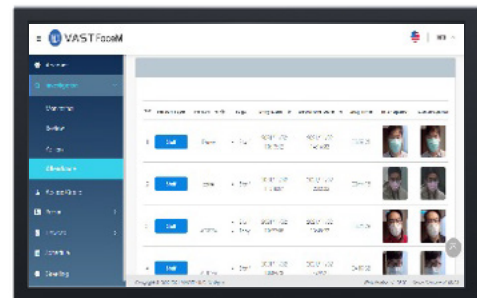


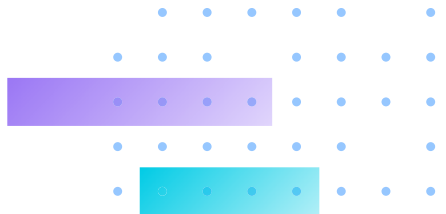
### Key Features

- Content Management System
- A Maximum of 128 Devices Support
- Highly Secure
- Rich Infographic Reports

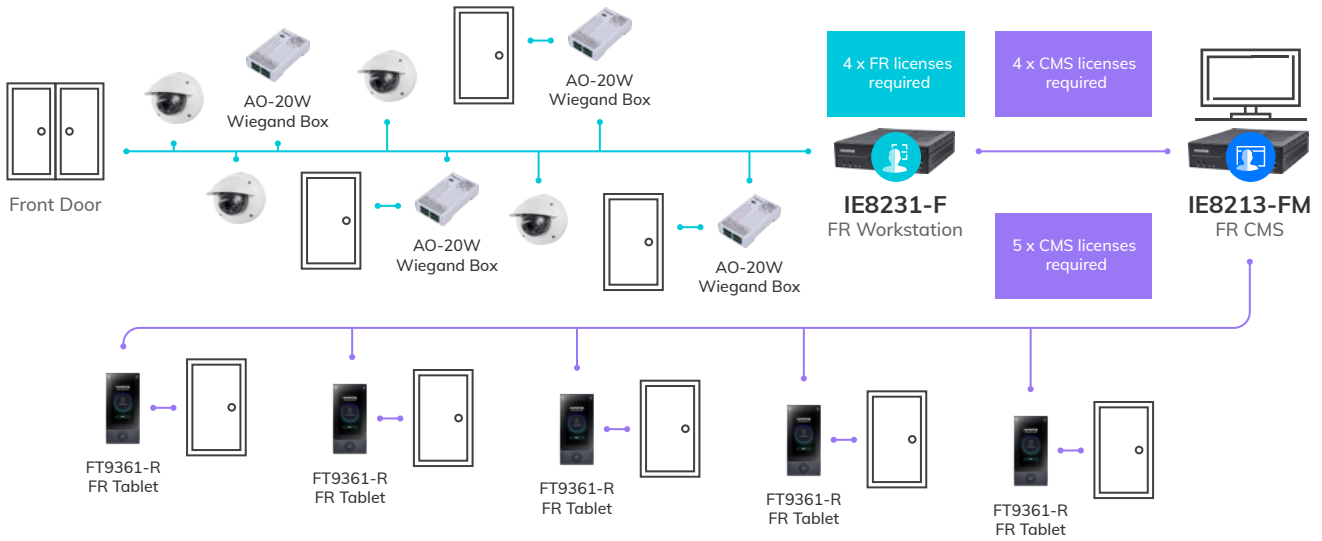
### Overview

VAST Face Facial Recognition CMS is a content management system designed to facilitate facial recognition data for access control and attendance management. It provides a secure and seamless authentication mechanism by utilizing an individual's face as a non-transferable biometric token, more secure than access cards that can be transferred or stolen. VAST Face Facial Recognition CMS can be applied to a wide range of applications including security checkpoints, staff attendance records, and automated identity verification. A single IE8213-FM built-in VAST Face CMS can support up to 128 devices.





# System Architecture



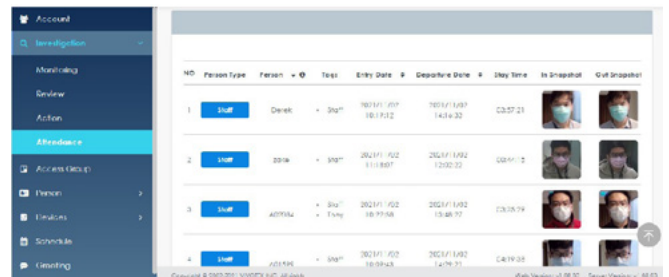
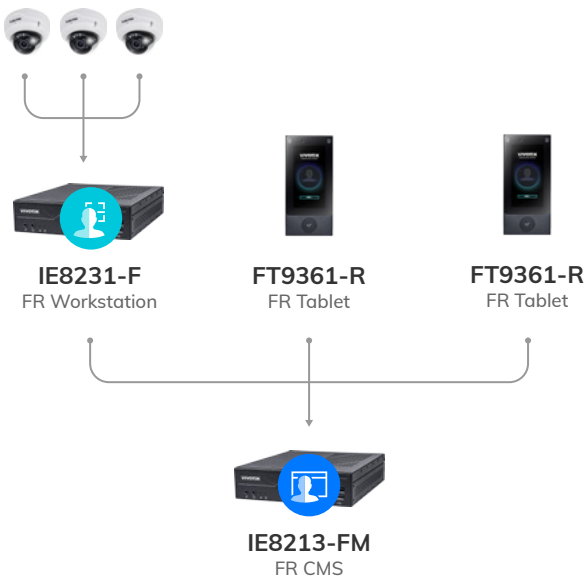
## Key Features

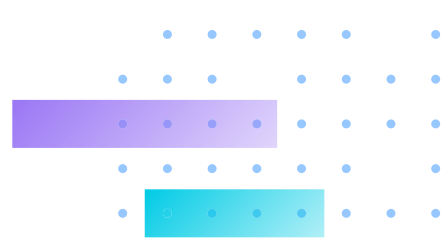
### Content Management System

VAST Face CMS is a content management system, capable of managing a maximum of 128 connected facial recognition devices (camera, tablet, or other hardware). Through VIVOTEK's proprietary industrial computer IE8213-FM built-in VAST Face CMS, people lists and 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.

### Rich Infographic Reports

VAST Face CMS's rich infographic reports help decision-makers have a bigger picture and deeper understanding of people entering and leaving. For example, live monitoring reports and alerts can provide real-time information of suspicious visitors. Time management & staff attendance reports summarize the footprints of a person of interest in a specific time frame. Feature-oriented dashboard with statistics, insights, and trends about access control events improve field operations. Also, versatile search conditions (name, event time, event type, location, etc.) and exporting to Excel make post hoc reviews more streamlined.





# Technical Specifications

## VAST Face Facial Recognition IPC built-in CMS - IE8213-FM

Model	IE8213-FM
Hardware	Intel CPU: i7-10700, Memory: DDR4-2666 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	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

## System

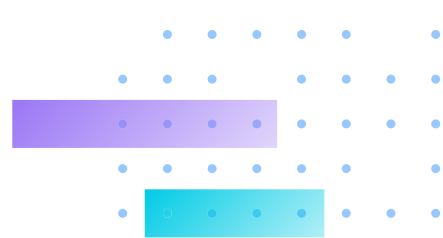
Architecture	Three Tier Server-client system: <ul style="list-style-type: none"><li>· Web Server</li><li>· Application Server</li><li>· Database Server</li></ul>
Supported OS	Ubuntu Server 20.04
Supported Protocols	HTTP & HTTPS
Supported Hypervisors	VMWare, Hyper-V, Virtual Box
Container Type	Docker
Database Type	MongoDB
System Security	<ul style="list-style-type: none"><li>· Single device login</li><li>· Renewable session token</li><li>· Hardened HTTPS</li></ul>

## Management Interface

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

## Environment Adaptability

Camera Installation Height	<ul style="list-style-type: none"><li>· 3.0 meters max. camera height</li><li>· Mounting position within 10 degrees incline</li></ul>
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## Technical Specifications

Supported Image Modes	Color & Monochrome
Robust Against	<ul style="list-style-type: none"><li>· Large expressions</li><li>· Beards, moustaches and different hairstyles</li><li>· Eyeglasses</li><li>· Caps and scarfs</li><li>· Irregular lighting</li><li>· Partial face obstruction</li></ul>

### Supported Devices & Integrations

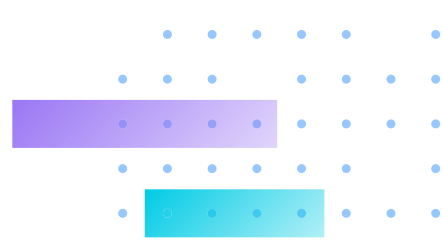
I/O Relay	<ul style="list-style-type: none"><li>· Moxa E1214</li><li>· Advantech ADAM 60XX</li><li>· VIVOTEK AO-20W I/O Device</li></ul>
IP-to-Wiegand Converter	<ul style="list-style-type: none"><li>· Doorcard DCT-4TW26</li><li>· VIVOTEK AO-20W Wiegand Box</li></ul>
HTTP Notifications	Send customized GET/POST HTTP messages
Others	<ul style="list-style-type: none"><li>· Use VAST Face RESTful API</li></ul>

### Persons of Interest (POI) Management

POI Management	<ul style="list-style-type: none"><li>· Enroll person using Web client.</li><li>· Manage face profiles database through Web Portal</li></ul>
POI Authentication	<ul style="list-style-type: none"><li>· Using Face as a credential</li><li>· Using Card Number</li></ul>
POI Groups	<ul style="list-style-type: none"><li>· Default groups: VIP, Blacklist, Staff</li><li>· User defined person groups</li></ul>
POI Batch Enrollment	Supports bulk enrollment using Excel & JPEG files
Enrollment Photo	<ul style="list-style-type: none"><li>· Min. face size = 200 x 200 pixel</li></ul>
Requirements	<ul style="list-style-type: none"><li>· 1MB Max. photo size (.JPG or .PNG)</li></ul>
POI Profile Information	<ul style="list-style-type: none"><li>· Name, ID #, card #, job position, email, phone, POI group(s), and expiration date</li></ul>

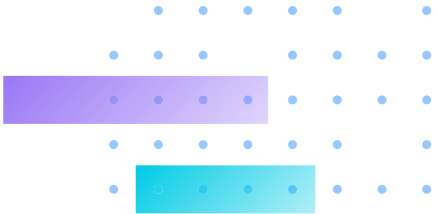
### POI Reports

Investigation Reports	<p>Generate facial recognition reports and filter events by:</p> <ul style="list-style-type: none"><li>· Location</li><li>· Time period</li><li>· Name</li><li>· POI Group</li><li>· POI type (enrolled or stranger)</li></ul>
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# Technical Specifications

Attendance Reports	Generate staff clocking reports and filter events by: <ul style="list-style-type: none"><li>· Clock-in time</li><li>· Clock-out time</li><li>· Stay length</li><li>· Late Arrival</li><li>· Early Leave</li></ul>
Actions Reports	Generate a report for which pre-defined actions were triggered in response to an event.
Export Data	Export results to Excel file
<b>Trigger Rules and System Actions</b>	
Rule Engine	Rule based engine to trigger single or multiple system actions based on: <ul style="list-style-type: none"><li>· Event Location</li><li>· Schedule</li><li>· Detection time period</li><li>· Specific POI profile</li><li>· POI face group affiliation</li><li>· Person type (enrolled or stranger)</li><li>· POI is (not) a member of a group</li></ul>
Supported System Actions	<ul style="list-style-type: none"><li>· Trigger I/O Relay</li><li>· Trigger IP-to-Wiegand converter</li><li>· Send HTTP GET/POST command</li><li>· WebSocket notification</li></ul>
<b>System Users Management</b>	
System Users	Register user accounts using Name, E-Mail address & Phone number <ul style="list-style-type: none"><li>· System Administrator</li></ul>
System User Groups	<ul style="list-style-type: none"><li>· Administrator</li><li>· VAST Face CMS</li></ul>
<b>System Inter-compatibility</b>	
Supported Products	<ul style="list-style-type: none"><li>· VIVOTEK VAST2 VMS/ CMS</li><li>· VIVOTEK VAST Face CMS</li><li>· VIVOTEK VAST FaceVisitor</li></ul>
<b>Facial Recognition Verticals</b>	
Possible Applications	<ul style="list-style-type: none"><li>· Identify potential troublemakers (shoplifters, criminals or any other barred individuals)</li><li>· Detect VIP members upon arrival to deliver a tailored experience</li><li>· Provide physical entry to commercial buildings, residences, and other rooms</li><li>· Contactless staff clock in system</li><li>· Verify visitor's identity</li></ul>



# Dimensions

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