



A game changer in the industry



Ayonix Access is Al-based Face recognition access control and time attendance application. A Camera located at the entrance of the gate authenticates registered people and allow them to access to facility seamlessly.



Ayonix Access recognizes people and open gate while approaching to gates





New era in Access control



CAPTURE



Obtains facial images from video streams (CCTV surveillance cameras)

ASSESS



Assesses frames of video, detects faces and analyses.

Creates a small template for each unique face

MATCH



Compares face template image against an enrolled image database until a match is found.

Maintains a history of matches

REACT



Open a door or send a message by email or by other means

ONE SECOND PROCESS

Why Face recognition





Speedy and easy verification under a second



High work efficiency by other information like gender, age, smile, IN/OUT people counting



Temperature measurement to prevent COVID-19 or similar virus-infected people



Smart verification, prevents tailgating, keep an history of people



No touch and the most hygenic Access control system in the world



Human friendly. Fully compatible with disabled people

Why Ayonix Access





Deep Learning

Ayonix smart learning algorithm learns people faces simultaneously



On-edge Recognition

Product prices are almost half compared to competitors



Mask face verification

High accuracy, high speed for Masked people



History management

List events, number of incoming/outgoing people, VIP recognition

Key advantages





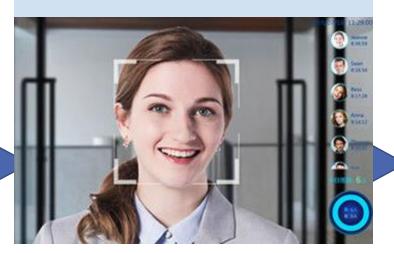
Ayonix Access authenticates multiple people simultaneously





Performance

It allows customers to be matched in a Built-in IP camera. Performance is 2 times higher than others



99% ACCURACY



Low cost NO server NO complexity NO waiting time



What we offer



Option 1 Ayonix AlCAM Ayonix Face recognition camera



Ayonix-branded FR camera

Option 2 Ayonix AIBOX Ayonix FR-box for existing cameras



Option 3 Android tablet Android-based Access control



Android matches faces and open door

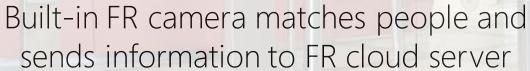
Comparison	AICAM	AIBOX	Android tablet
USB camera support	No	Yes	No
Budget solution	No	No	Yes
Easy use	Yes	Yes	Yes
Lead time	3 weeks	1 week	1 week

System Architecture



FR Cloud server







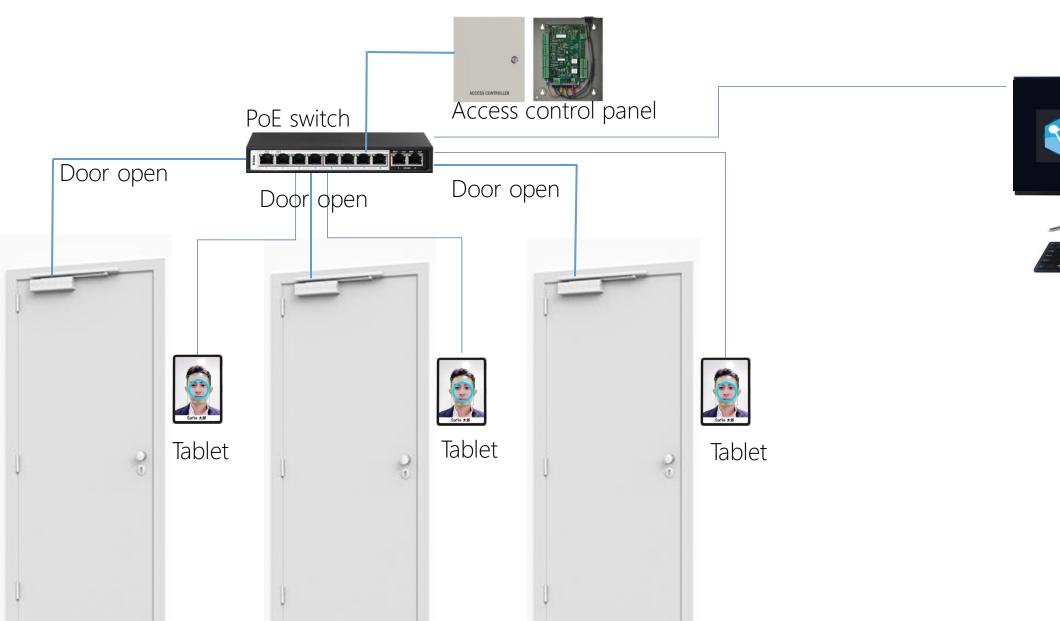




Cloud servers makes management of accessing people

System diagram



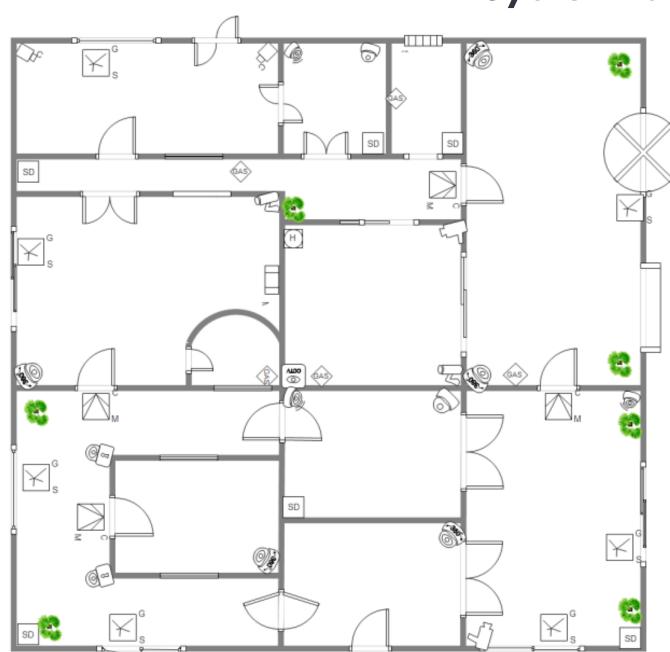




AICAM app
Events
History
User manage
dashboard

System diagram





Combination of AICAM, Android tablet can make the facility fully guarded



HOME:

Backyard Front garden Surroundings of the house



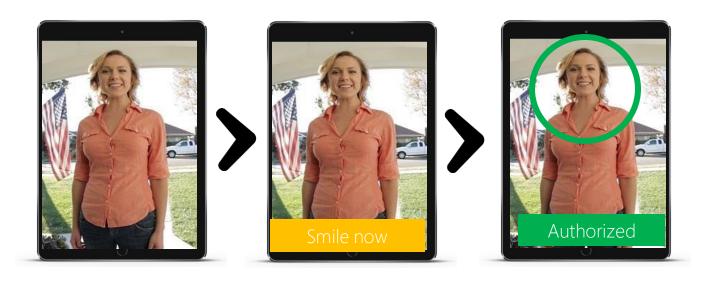
Door entrances or Office turnstiles

OFFICE:

Corridors
Elevators
Loby, meeting rooms
Waiting rooms

How does it recognize





For pre-enrolled person:

Person approaches → Smiles → Authorized



Passcode screen

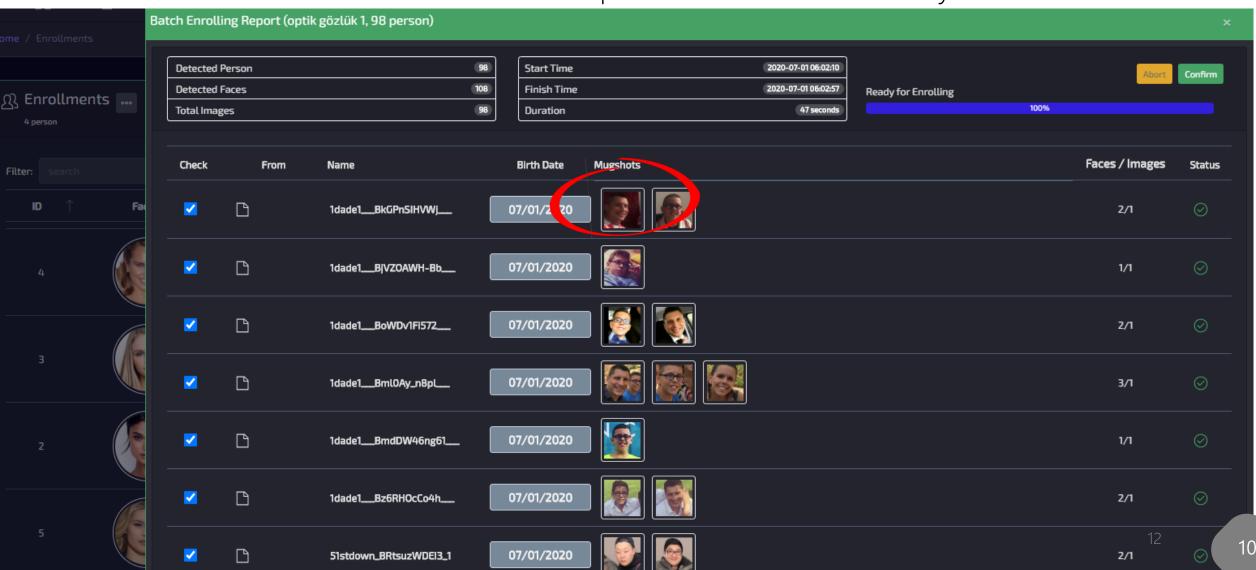
For an unknown person:

Person approaches → Smiles → Not authorized (Person can put passcode as an option)

Enrollment gallery



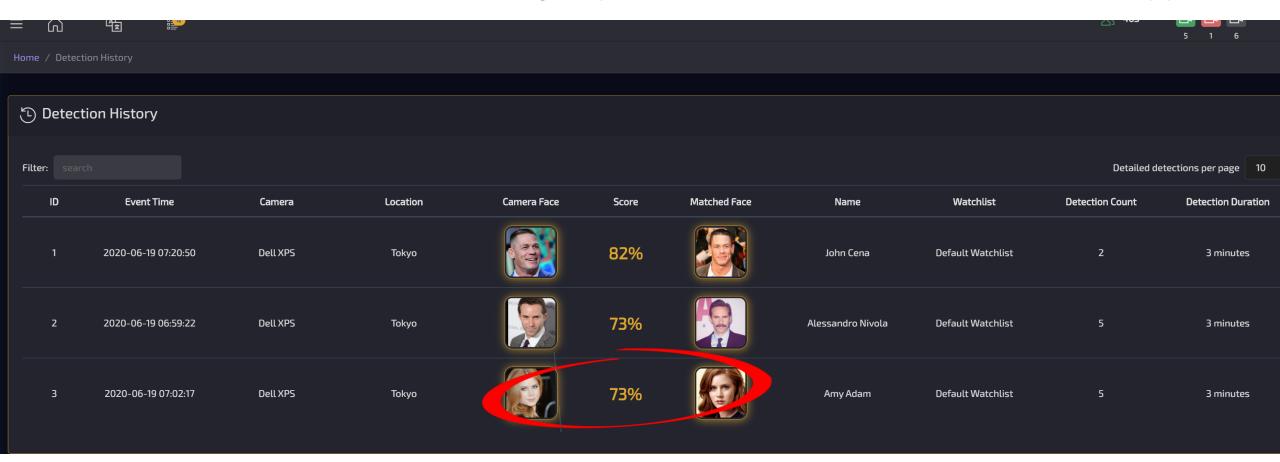
Enrollment is done instantly in the AICAM Cloud application. You can remove or add a person to Database at any time



Match events



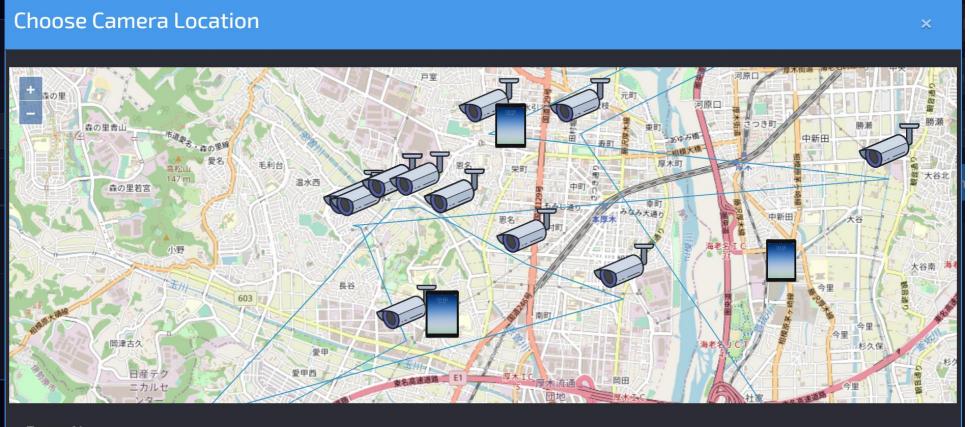
Matches from all available cameras are grouped and listed in Match event list in the application



All matches are displayed with scores and images for visual comparison

Camera management in google map





Each camera can be accessed in google map.

You can do

- Change camera
- change location
- live-view camera
- get statistics and many more......

Zoom: 14

Center: [139.3519187441068, 35.43696268197175]

Rotation: 0 My geolocation:



AICAM models

AIBOX models

Android 10



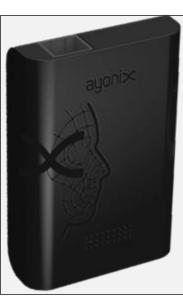




T2SM-G 4K, 22X zoom



T2SM-F 4K, 20X zoom



AIBOX runs with

- USB/Webcameras
- Analog cameras
- IP cameras(onvif)



Android tablet authorizes a person for access by Face recognition



Model: Galaxy tab A 8.0 Android 10 2GB RAM

Built-in Face engine

99% accuracy 1Kb face template Recognition at 50ms 48 pixels minimum face 20 faces real-time

Face recognition features

- ✓ Gender/Age/Smile estimation
- ✓ Full-HD face tracker
- ✓ Auto face optimizer
- ✓ Full-3D face model
- ✓ Adjustable match distance
- ✓ Camera-based threshold
- ✓ Adaptive smile detector
- ✓ Built-in 3D Face matching

Ayonix engine has been selected as the fastest Face recognition engine in the world in NIST-FRVT 2014 and NIST 2018 tests

Door access controller



Both Onvif and OSDP door open formats are supported

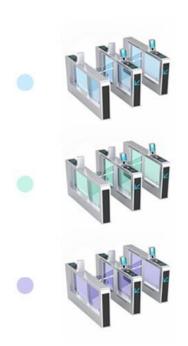


Onvif Profile C is for Physical door control protocol



OSDP is the most common protocop for access ctrl





Access control device

ayoniTHE NEW AGE OF FACE RECOGNITION

Below access control devices are supported:



CEM eDCM 330 (2-door ctrl with PoE)



CEM DCM 400 (4-door ctrl with PoE)



Axis A1001 (4-door ctrl with PoE)

Many more features...



Edge-based Access control

Centralized management

Cloud management



Live camera view



Event management



Tracing on map



Smart face enroll



Door open control



User management



Match search



Category setting



Log management



Event face search



Group face match



Mask identification

