

# RFUSION

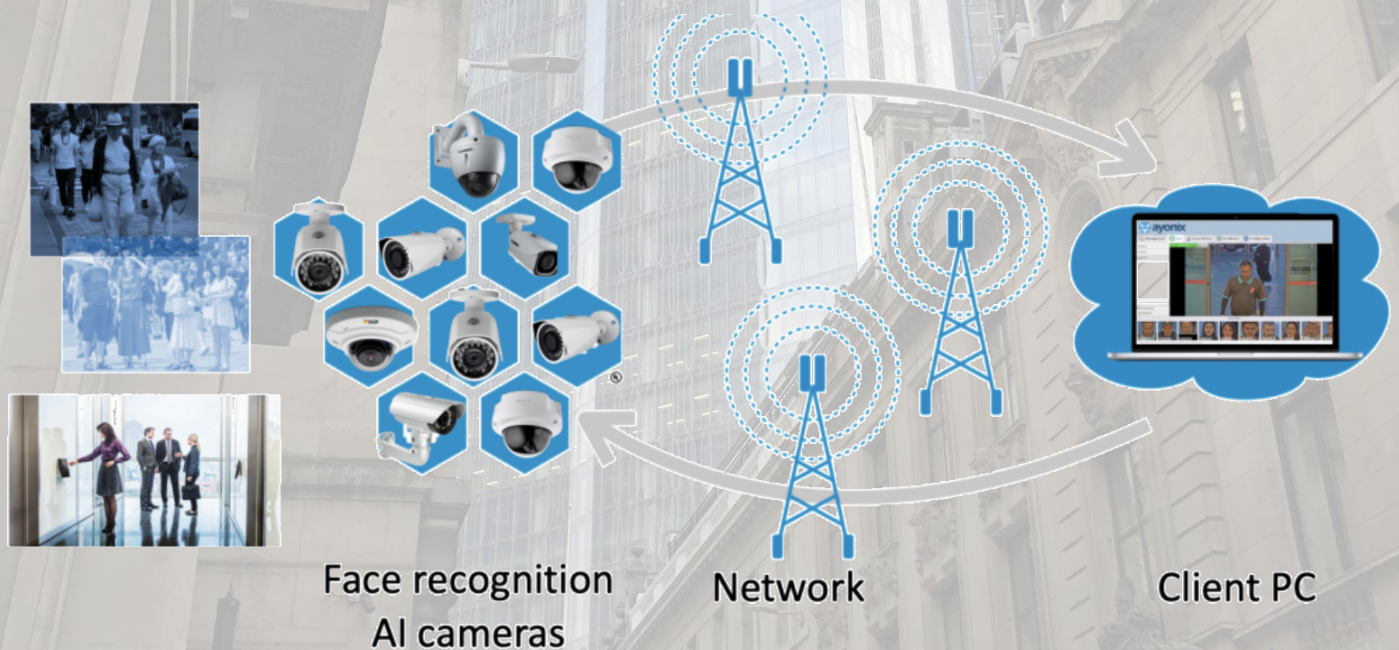
TOMORROWS TECHNOLOGY TODAY

**AiCAM**

Powered by



Turning your existing or new camera infrastructure into one of the most powerful AI Facial Recognition platforms available today.





With the AICam Platform, we can match a face and alert a client within 50 milliseconds with nearly flawless accuracy. The AICam is powered by Ayonix's industry-leading face recognition engine.

Our Solution The Ayonix AICam platform, which can handle up to 1,000 cameras (even in remote locations) with a single server, conducts all face recognition operations at the designated camera.

The platform is managed from an easy-to-use dashboard.



## AiCAM Methodology

The AICam runs the Ayonix face recognition engine.

All matching is conducted at the camera, which eliminates privacy risks.

Images are contained at the camera, which eliminates costs for servers and GPU.

Clients are notified immediately – by email, sound and system alerts – which target or unidentified user is identified against the designated customer face database.

An integrated dashboard allows clients to easily manage the AICam and results. The system captures and catalogues thumbnail images, allowing for thousands of records to be saved or erased for future matching.



## SPEED:

- The platform processes up to 20 faces simultaneously, and it matches those faces against the camera's built-in database. Each camera can process up to 30 faces each second, meaning that people don't need to stop or slow down in front of the camera to be identified.

## PERFORMANCE:

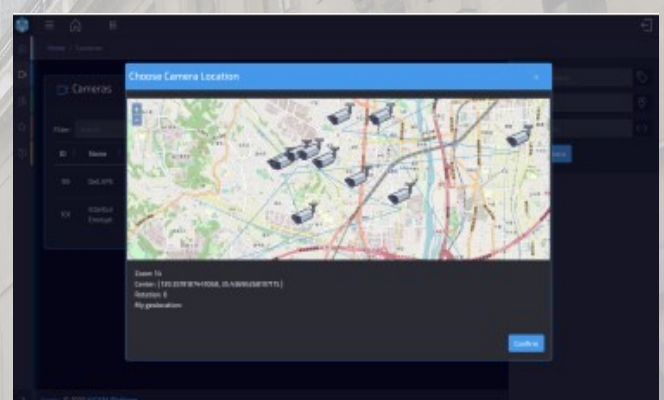
- All matches happen at the camera. The Ayonix face engine captures and processes images instantly, with a 95 percent accuracy rate. When matches are confirmed, the platform can automatically offer access to authorised individuals or send multi-prong alerts for unauthorised users.

## LOW COST:

- Up to 1,000 cameras can be connected and managed with a single server. AiCam eliminates the need for maintaining a fleet of servers and space requirements. The platform also can operate without the need of high-speed networks.

## AiCam Benefits

- Maintain privacy as matching occurs at the camera
- Maintain match speed as you scale the solution
- Support thousands of cameras with a single server
- Manage growing service at same initial investment cost





# Key **AiCAM** Features

## Engine Performance

- Greater than 95% accuracy
- 1Kb face template per person
- Face recognition at a speed of less than 50ms
- 16 pixels between eyes
- 20 faces simultaneously
- Matches up to 1 million records

## Engine

- Gender/age/smile estimation
- HD-intelligent face tracker
- Auto face optimizer
- Full 3D face model
- Auto face verifier
- Adjustable match distance
- Camera-based match threshold
- Adaptive smile detector

## Built-in 3D face matching

- Real-time face data synchronization Built-in Face Engine
- Maximum 65% CPU usage
- 100mb memory usage
- Low power consumption
- Plug-and-run face engine
- Raw data processing



## Market Applications

# AiCAM

is designed to deliver across all market requirements:

### SURVEILLANCE:

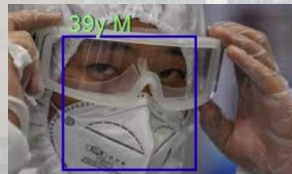
Monitor buildings, localities, malls, public locations, private zones and more

**ACCESS CONTROL:** Grant two-way access at designated and/or restricted areas, including corporate offices, factories, schools and hospitals

**MARKETING:** Analyse people by gender, age and smile experience, count number of unique people, and determine repeat visitors

Feature	Explanation
User Management	Access with user privileges for Admin, Supervisor, and User
Event Log	Record of all face recognition events (6 months)
Registration (Camera, Image)	Face registration with camera, video and images. All people can be registered even if there are multiple faces
ROI Region Face Recognition	Disable face recognition in unnecessary areas with the ROI setting on the camera screen
Watchlist Settings	Define the condition you want to look for, and if there is a match that meets that condition, watchlist event will be created
Image Search (1:1, 1:N)	Search for a face by the images entered from camera events or registrants
Map Display	Camera map display. Check on one screen who passed by which camera
Dashboard Display	Graph display of statistical information and collation results
Export(PDF, XLS, CSV)	Export of event records. (PDF,XLS, CSV)
Auto Backup	Automatic system and event backup (FTP, file system, etc.)
Image Settings	Image settings function. Settings of undetectable face by marking, changing image colors, etc.
Alert Output Management	Creating alerts such as Email, Browser Notifications
Route display of matched people	Map display of all routes taken by authenticated people

## Mask detection and recognition



For further information  
please contact:

[ian@rfusion.co.uk](mailto:ian@rfusion.co.uk)

[www.rfusion.co.uk](http://www.rfusion.co.uk)