

### ***Open sesame***

CleverAccess utilises our market leading facial recognition algorithm to actively, or passively, identify specific individuals and provide access solutions where appropriate.

CleverAccess;

- links seamlessly with existing access control hardware, taking inputs either directly into the access control system or from an existing client database
- provides access control, remote alerts to mobile devices and management information to an intuitive, live, on-line dashboard.
- is cloud based, allowing the database to be managed centrally and deployed, in real-time, to multiple sites
- allows touch-free access control in line with anti-contamination rules

CleverAccess can be tailored to your specific requirements and is highly useful for a variety of industry sectors including offices, data-centres, leisure facilities, production facilities and manufacturing.

### **Example Application of CleverAccess**

*We worked with a major UK bank, with 30,000 employees to keep safe and secure, who were looking for a reliable access control system.*

*Like most other companies, they had used proximity cards for access control in both the Head Office and the branches, with the usual issues around lost and transferred cards!!*

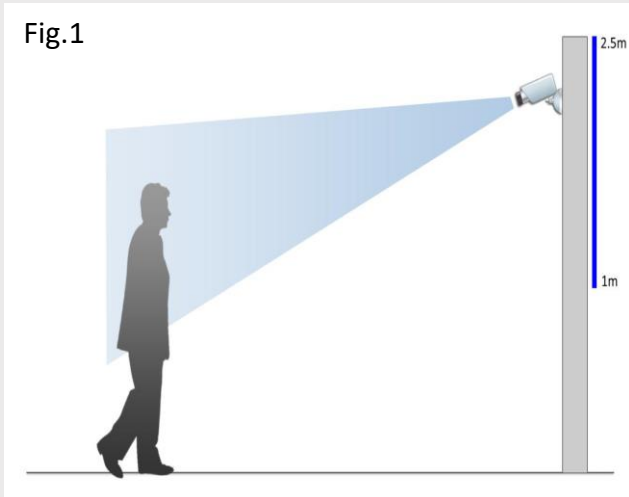
*The Customer Clever CleverAccess product gave them everything they needed – simple to use, highly accurate passive identification, with a simple to use intuitive dashboard, and it worked seamlessly with the turnstiles they had installed 5 years ago, and their existing database of employees.*

*Now, as employees approach the barriers or doors in any of their Head Office sites, they open automatically, recording the location and time of entry and exit on the live on-line dashboard.*

*No more passing of cards from employee to employee and no more paying for replacement cards!*

## Technical Specification

Fig.1




- Normal lighting conditions, not extreme ones
  - Uniform illumination desirable (300 lux+ is a 'good level')
- Users walking at normal speed (see Fig.1)
  - Faces near frontal position (+/-35 degrees left/right deviation, +/-20 degrees up/down deviation)
    - Camera preferably placed at 1.6-1.8m
    - Max 2.5 meters height (see Fig.1) – can be higher but no more than 10 degree tilt angle (to ensure face is captured and not top of head) – camera located further away from target and telephoto lens used
- Sunglasses can reduce the recognition rate if oversized

### Network Video Camera / Lens Minimum Requirements

- Good quality images, at least 1080p. (3Mp or greater preferable)
- Permanent network connection: minimum 256 KB down / 128 KB up
- Optimal face size for recognition and match 833px x 833px per metre
- Expected face size for recognition and match 400px x 400px per metre
  - Minimum face size for enrolment: 150px x 150px\*
  - Preferred Manufacturer: Axis
- Also works with : Avigilon, Bosch, Canon, Panasonic, Sony, Uniview
  - Glass optic Megapixel Lens with edge correction
  - Preferred Manufacturers: Canon, Fujinon, Pentax

### PC Specification

	1 Camera	2 Cameras	4 Cameras	6 Cameras
	Intel Core i7 CPU: 4xCores 4xThreads 2.5Ghz Ram: 4GB GPU NVidia GTX1050	Intel Core i7 CPU: 4xCores 8xThreads 3.2Ghz Ram: 8GB GPU NVidia GTX1050	Intel Core i7 CPU: 6xCores 12xThreads 3.2Ghz Ram: 16GB GPU NVidia GTX1060	Intel Core i7 CPU: 8xCores 16xThreads 3.2Ghz Ram: 16GB GPU NVidia GTX1060

