

Face Recognition STEP BY STEP GUIDE



Slide 1

Face Recognition standard operation:



- Track, Classify & the 5 closest matches are selected
- Background training is ON
- When a face is seen in the image, up to four faces are tracked independently



Slide 2

CAMERA POSITION: Typically looking down a corridor.



As people walk along
the camera finds
up to four faces
in the image.



Slide 3

IMAGE CAPTURE



Once
the
face
is
tracked
[the
square
around
the
face],
an
image
is
captured.



Slide 4

FACIAL REVIEW



All faces, once tracked, are captured.



Slide 5

FACE RECOGNITION



The face in the image is compared to the database and the top 5 matches are shown on the right.

If a match is found, the following might occur:

- door opens;
- Light turned on;
- Voice greets the person by name;
- Screen flashes;
- SMS sent to security;
- Picture is e-mailed to department head
- ETC...



Slide 6

FACIAL COMPARISON



If the person is linked to a proximity card, this will link the person to a single record in the database.

The face in the image is compared to the ONE RECORD in THE database and IF the person scores higher than the set pass mark, the person is VERIFIED.



Slide 7

ADDING PEOPLE TO THE DATABASE



People can be enrolled from still images or from video.

Place the person to be enrolled in front of the camera.

Type in the name (and a number if required).

The system will ask the person to move and change the face orientation, size and lighting on the face by moving and looking left and right.



Slide 8

ADDING images to the DATABASE

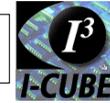


Be sure to remove poor images from enrolment by deleting bad images.



Slide 9

DATABASE MAINTENANCE



In order to ensure a high face recognition accuracy, database maintenance is crucial. This is done by removing (no tick) people who are not expected to be seen in the image stream.



Slide 10