

ATOM ACCESS II

Facial Recognition Access Control

Access II

FRS ACCESS is cutting-edge physical access control software which electronically controls several doors. FRS ACCESS™ constantly detects the physical presence of a user according to his facial signature and matches the findings to identify persons from a local or networked database.



DB capacity: virtually unlimited DB Sync: Replication (Differential), Interactive Interface, Changeable Skin, Supported Cameras: Integral 1.3MP, External USB, Analog through Grabber. IP cameras through MJPEG injection.

Matching Methods:

- 1:1 (One to One)
 - RFID
 - MAGNETIC Card
 - PIN CODE
- 1:N (One to N)

Facial Recognition Adjustable Attributes:

- Minimal Similarity Level
- Eye distance
- Matching attempts
- Video sample rate
- Ageing+

Template Size: 2.3 KB / Face
 Multi-Templates per person
 Embedded face image
 Search Time: 100,000 Templates/Sec



Hardware Specifications:

Atom CPU N270 533MHz FSB, 512KB L2 Cache
 N270 1.6G 945GSE+ICH7-M VGA:GSE 945
 Integrated. High Definition Audio. Upgradeable
 memory 1*SODIMM Slot, Double channel, DDR2
 667. Maximum Memory 2GB. Modular Battery Bay
 Re-chargeable Lithium Ion Battery Pack (Prismatic
 Cell) 2S2P--32.56W (at least 3 hr)
 Mass Fixed HDD "80GB 2.5" "9.5mm height 5400
 RPM SATA Ultra DMA" Video Display Controller
 945GSE (Simultaneous and multi-monitor. LCD
 Display 10.2" XGA TFT (1024 x 600)
 Camera 1.3M USB Camera Built in. Built in Stereo
 Speakers X 2, Internal Stereo Microphone
 Wireless 3945 B/G Network Connection. 10/100
 Fast-Ethernet. Touch screen. DC-IN Jack,
 Headphone Jack, Stereo MIC Jack, Card bus PC
 Card or new card. D-Sub 15 Monitor out. LAN
 RJ45. Dimension 252(L) x 192(W)x 28(H-min.)
 Weight 1.18kg



Software Specifications

Generic / DirectX video interface (Win 32 API)
 Real time facial recognition, User Management / Time Zones, Time Attendance feature (In / Out / Automatic / Manual), Fully customizable Time Attendance, MDB / CSV Log format, Remote door control, Silent alarm with suspect detection feature, Log Browser including visual history, User Privacy mode – no image saving, Automatic suspect capturing, RFID, Magnetic Card, Code Panel or Face only modes, Ageing+ feature allows dealing with face changes, External MJPEG injection, and Visual view of video input Visual view of face detection
 History / Enrolled / Suspects view, Voice alerts during system operation, Multi-language, Do-it-yourself localization available, Easy to use graphic interface, On-screen shortcuts.

FRS Software Statistics (1:N):

FAR	FRR	FRR with Generations
1.0000%	2.65%	0.84%
0.1000%	4.35%	1.96%
0.0100%	6.14%	3.81%
0.0010%	8.08%	4.68%
0.0001%	10.01%	5.16%

FAR	Threshold
1%	2.65%
0.10%	4.35%
0.010%	6.14%
0.001%	8.08%
0.0001%	10.01%

Detection < 1 sec (Up to required matching threshold)
Enrollment time < 1 s ec
Face Pattern size : 2.3 KB
Frame / Sec : 100,00 F/Sec
Minimal Distance from Camera: 40 pixels between two eyes

User Management Console:

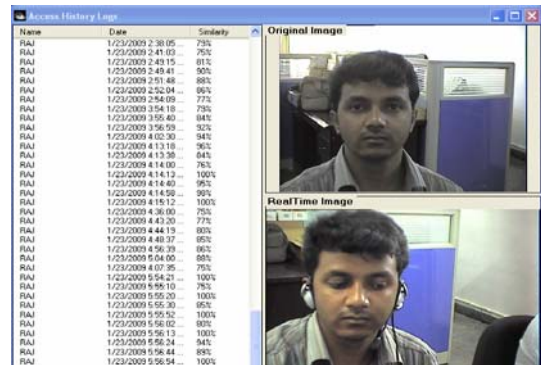
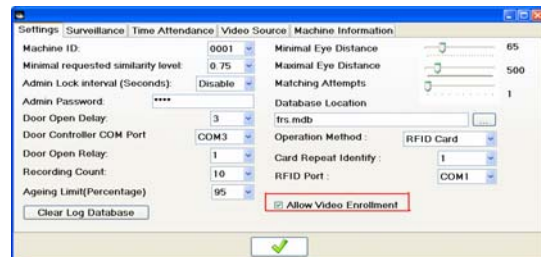


USB Door Controller



Low cost 4 channel card, 240VAC/10A power relay or 30VDC/1A, gold contact, signal relay options available. PCB tracking will handle 120/240VAC @ 10Amps, LED channel status indication with Opto-isolation options. Protective Perspex cover/base & DIN mount options available USB powered, no external power connections required. Corner mounting holes allow cards to be intermixed or stacked .

Access II Door Control: Flexible configuration of Door Open Delay and selectable Door Relay.



Software Settings

Machine Id - FRS Access Unique ID for networked communication/export

Minimal requested similarity level – 1% to 100% value the threshold that will decide if person x is x.

Admin lock interval -No. of seconds for which the administrator panel stays enabled before locking. It also can be disabled.

Admin password - Administrator unlocking password.

Door open delay - Time period to leave door relay open

Door controller COM port - Communication port of door controller

Door open relay - Selecting relay to control door access

Recording count - Counts enrolling face 5 to 35 frames for best enrolment

Ageing limit (percentage) - All the variations in the lighting and user image will be taken as an enrolment during all time accessing.

Clear log database - All logs will be cleared.

Minimal/Maximal Eye distance - 40 pixels to 3000 pixels, recommended values: 65-200 pixels. This value will define the minimum and maximum distance between eyes for facial recognition.

Matching attempts - Number of detection attempts before decision on user identity

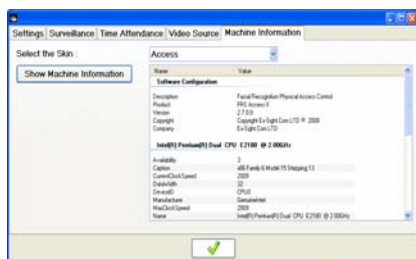
Database Location - Position of system database, default: local folder. Failure in location will load default location.

Operation method - Access can be configured with 1: N (facial), RFID cards and magnetic cards.

Card repeat identify- Repeated entry of card user will be monitored.

RFID Port - Communication (COM) port for connecting RFID / Magnetic reader device.

Allow video Enrolment - Allow multi-shots scanning of a user



Surveillance Tab

1. Save Enrolled User Images - Save image of every enrolled user. If this option is not checked, user image will not be Stored on detection. The captured images will be stored in "C:\ex-sight\access\images".

2. Save Real time Images for History - Save image for every authorized access event. If this option is not checked, system history will not be updated. The captured images will be stored in c:\ex-sight\access\History\real time images

3. When user is not recognized, record image as suspect - Will record a suspect after X frames. Frame time will be defined by sample rate. The captured images will be stored in "C:\EX-sight\access\suspects".

4. Silent Alarm - Opens a relay after suspect detection. This feature won't work if option 2 is not checked.

Time Attendance Tab

Allow Event Log Export - Will create "C:\ex-sight\access\Export" folder with a text file that will contain a log of all "In" and "Out" according to presence reporting. This file is an output file for accounting purposes. Leaving this option checked will cause the file to grow during system operation. Due to this fact this file must be deleted from time to time.

Presence reporting - Access control for **IN** and **OUT** reporting and also can be configured **automatic** and **manual**. If it's automatic then **IN** and **OUT** will be reported alternatively

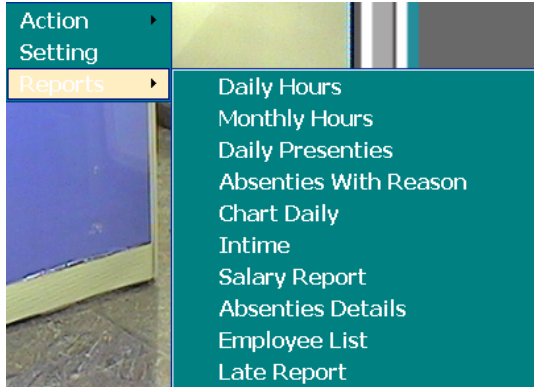
Video Source

1. Sample rate - Face detection camera sample rate

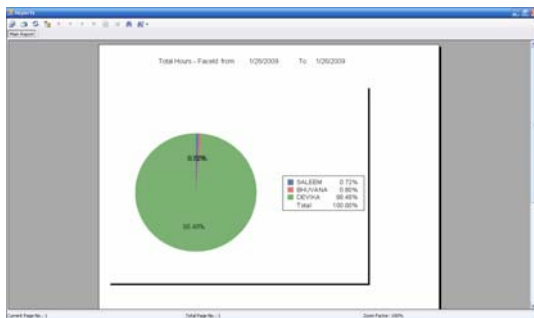
2. Video type - For using analogue and digital video sources we can use this option. This will automatically detect the connected video device and also can be configured manually.



Reports



Name	In Time	Out Time	Worked Hours
SEEMA	18:26:24	18:26:34	0:00:10
20/01/2009	18:26:44	18:26:55	0:00:11
20/01/2009	18:26:05	18:26:15	0:00:10
20/01/2009	18:26:25	18:26:35	0:00:10
20/01/2009	18:26:45	18:26:56	0:00:11
20/01/2009	18:27:06	18:27:16	0:00:10
20/01/2009	18:27:26	18:27:37	0:00:11
20/01/2009	18:27:47	18:27:57	0:00:10
20/01/2009	18:28:07	18:28:17	0:00:10
20/01/2009	18:28:27	18:28:37	0:00:10
20/01/2009	18:28:36	18:28:46	0:00:10
20/01/2009	18:32:17	18:32:27	0:00:10
20/01/2009	18:32:38	18:32:48	0:00:10
20/01/2009	18:32:59	18:33:09	0:00:10
20/01/2009	18:33:19	18:33:29	0:00:10
Total Hours			00:00:10



From	To	Reason	Salary	HourlyRate
01/01/2009	01/01/2009		0.00	0.00
01/01/2009	01/01/2009	Software Engineer	100.00	0.00
01/01/2009	01/01/2009	Software Engineer	100.00	0.00

Accessories

RFID Reader



Anti Vandal Shell



Shoulder Stripe

