








## SmartAfis

Mini AFIS for  
forensic and civil applications

User Form					
ID number:	006				
Surname:	Smith				
Name:	John				
Father:					
Mother:					
Marital status:					
Gender:	M	Birth Date:	22/05/2008		
Birth Place:		Nation:			
Address: via dei fori imperiali, 1					
City:	RM (Roma)	Nation:	Italia		
Citizenship: Italia					
Somatic features: Nord Europeo					
Physical imperfection:					
Annotation:					
Anomaly:					
	Thumb	Index	Middle	Ring	Little
Left					
Right					

SmartAfis is a fingerprint based identification system designed for medium-scale application (forensic or civil).

SmartAfis core technology includes an indexer developed by Biometrika that enables the rapid and effective search of a person in a database of hundreds of thousands of fingerprints.

SmartAfis is the ideal solution for applications which aim is to control the people within a limited area (city, region), or application for local police or organizations that need to identify non-collaborative people.

## Features

### Fingerprint Scanner

- HiScan

### Enrollment

- SmartAfis enables the enrollment of up to 10 fingerprints for each person
- Other data such as somatic characters, age, can be stored in order to speed up the search
- A photo of the person can also be stored

### Identification

- A fingerprint can be found in an archive containing up to 100.000 fingerprints
- The archive can be pre-filtered using somatic characters and age range

### Performance

- In a few second (average time), the system grants a reliable identification of a fingerprint.

### Systems

- Windows XP, Vista, 7, 8



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## HiScan

The wide sensing area and the high quality of the images acquired by HiScan grant the optimal performance of SmartAfis system. The sensing area of HiScan is 1"x1" with 500 dpi resolution: HiScan has been certified by the FBI according to the PIV image quality specifications.

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## Enrollment

The enrollment process enables the acquisition of up to 10 fingerprints. The acquired fingerprints are stored and indexed in an archive: the indexing operation speeds-up the identification process. SmartAfis also allows the storage of other data such as age, somatic characters and a photo for each person.

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## Identification

When a fingerprint has to be identified, SmartAfis performs a search operation. Thanks to the indexing system it is possible to reach an identification result in just few seconds. The search criteria can be further restricted by setting filters based on somatic characters, age range etc.

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## Applications

SmartAfis is the ideal solution for any application aimed at controlling people in a limited area (city or region). SmartAfis has been specifically designed for applications that require the identification of non-collaborative people.

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## Performance

The indexing system designed by Biometrika enables a smart search in the archive. The system grants a 90% probability that the person will be found in the first 3% of the searched archive. It means that if the searched person is present in the archive, the person will be found in a few seconds (even in case of a 100.000 fingerprint archive). When the search reaches the 33% of the archive without finding a match, this means that the user is not present. This search takes just a few minutes.

**Biometrika**

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