BioKiosk – Biometric data collection

BioKiosk is a biometric data collection solution.

Data is collected and stored in accordance with the recommendations of ICAO document 9303.

The solution consists of a set of equipment and the BioData application.

The data collected are:

- Photography
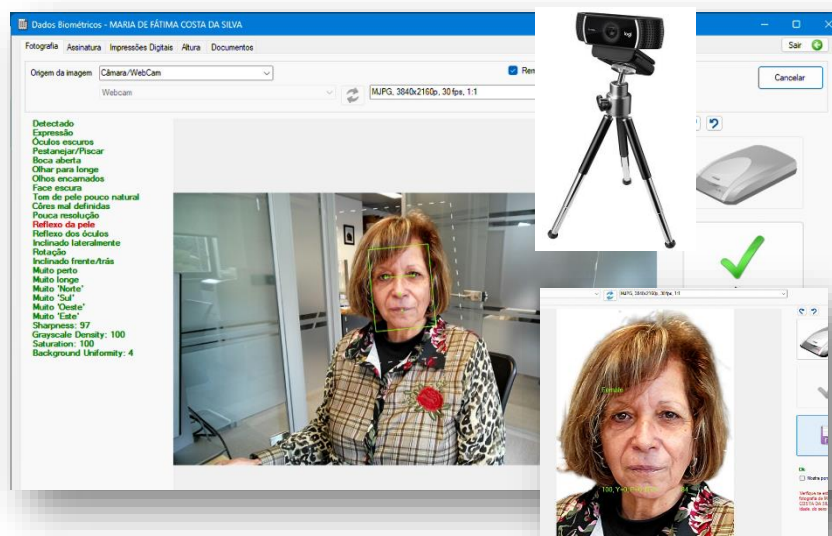- Fingerprints
- Signature

Photograph

The photo is captured by an HD or 4K Webcam.

Biodata recognizes the photograph in the image captured by the Webcam, and crops the photograph and resizes it according to ICAO recommendations. The background is withdrawn automatically.

Before recording the photograph, an analysis of possible non-conformities with the recommendations is carried out, such as:

- Head tilted
- Open mouth
- Face with expression
- Eyes closed or with glasses
- Etc.

The photograph can be stored in different formats, such as BMP; JPEG; JPEG2000.

Fingerprints

Fingerprints are collected by a 2-fingers scanner or by 2 single-finger fingerprint scanner.

The capture is done at 500DPI and in flat mode.

Optionally, rolled finger capture can be performed using the 2-fingers scanner or a 4-finger scanner (4 + 4 + 2).

Fingerprints can be saved in the following formats:

- BMP format;
- JPEG;
- JPEG2000
- WSQ(recommended)

Signature

The signature is captured by a backlit LCD-type signature pad.

Signature is made with an electronic pen.

The signature image can be replaced with a standard image with:
• "CAN'T SIGN"
• "DON'T KNOW HOW TO SIGN"

The signature image is saved grayscale in:

- JPEG;
- PNG
- BMP

Integration / Output

The captured data can be integrated with applications via SOAP or REST web services.

Images can also be exported to a NIST file or to individual files.

Optional components

Monopod

This monopod is fixed to the desk and allows the height of the camera/webcam to be adjusted

Lighting

Depending on environmental conditions, it may be necessary to reinforce the lighting.

LED-based photographic lighting is low-cost and allows you to significantly improve the photograph captured.

To avoid illuminate the face with a full frontal light, it is recommended to use 2 units.

Integrated solution

A model is also available in which the signature table and fingerprint scanner are in a single element. The number of visible cables is smaller than in the base solution.

Transport case

This transport case guarantees the safety of the equipment, if it is necessary to transport it to a collection point, outside the usual facilities.

Pre-cut pelly foam makes it possible to choose any other arrangement.

Minimum prerequisites

- **Workstation**
  - Windows 10 or later
  - 5 GB free disk space
  - 8GB RAM