We are the experts in **biometrics**, constantly **innovating** in the field of **Digital Identity.**

20+
Countries of presence

3
Core technologies

R&D
In the USA, Asia and Europe

Importance of ICAO-compliant MRTD

- ICAO Doc 9303 provides functional requirements for MRTD

- Face portrait printed on ICAO-compliant MRTD

- Verification of live face to MRTD face portrait in Automated Border Control (ABC) systems

- ISO 39794-5 provides specifications for MRTF Full Frontal Facial Image

Challenges in Achieving Compliance

- **Users normally have to go to a studio or biometrics collection centre**

- **Remote capture is the way forward**

- **Has issues – lighting, pose, expression, etc.**

TECH5
Technologies for Inclusion
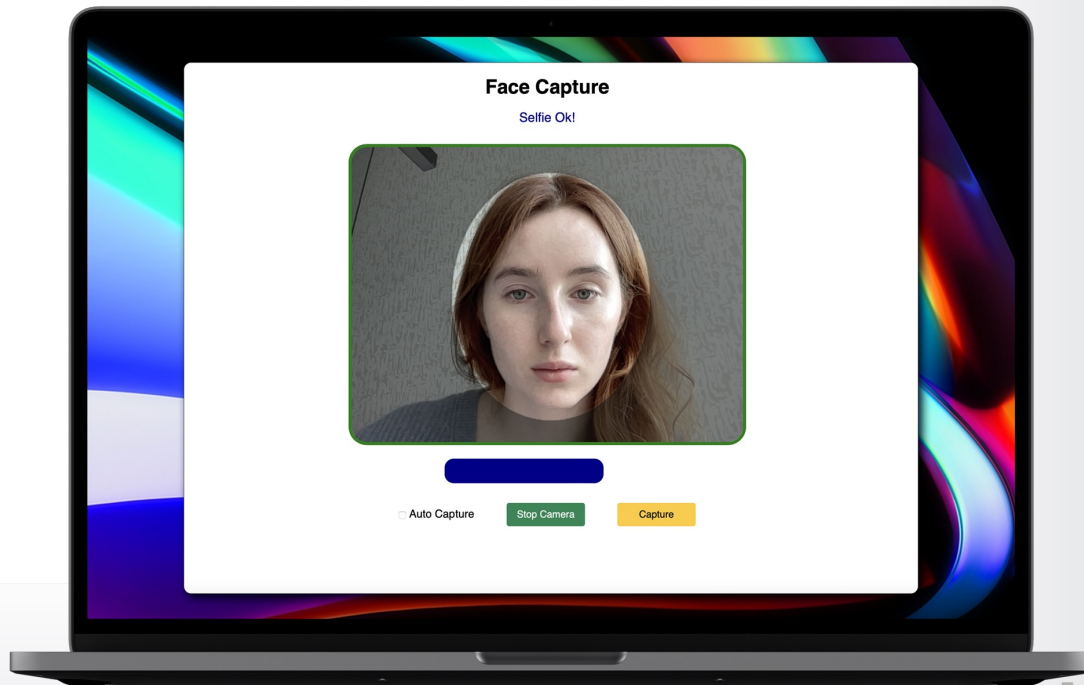
T5-AirSnap

TECH5 Mobile Contactless Face Capture Technology
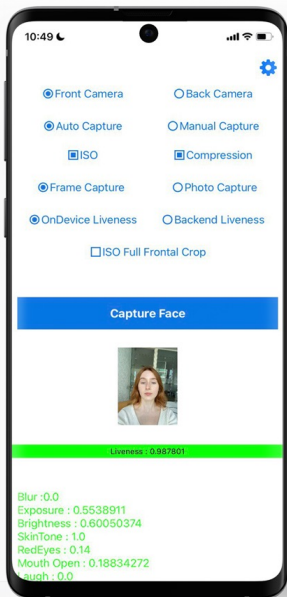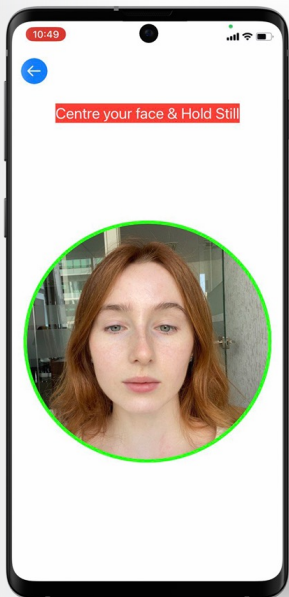
T5-AirSnap Face allows detection and capture of face within seconds using the camera of a standard mobile phone or computer.

Applicable for onboarding, verification and law enforcement applications.

T5-AirSnap Face

T5-AirSnap Face

T5-AirSnap Face Web

Centre your face & Hold Still

○ Front Camera ○ Back Camera
● Auto Capture ○ Manual Capture
☑ ISO ☑ Compression
● Frame Capture ○ Photo Capture
● OnDevice Liveness ○ Backend Liveness
☐ ISO Full Frontal Crop

Capture Face

Liveness : 0.987801

Blur :0.0
Exposure : 0.5538911
Brightness : 0.60050374
SkinTone : 1.0
RedEyes : 0.14
Mouth Open : 0.18834272
ough : 0.0

Face Capture

Selfie Ok!

☐ Auto Capture   Stop Camera   Capture

Yaw, pitch, and roll
D.1.4.3.1, D.2.3.1

Eyes closed
D.1.4.3.3, D.1.4.3.7, D.2.3.7

Sunglasses
D.1.4.3.4, D.2.3.7

Mask detection
D.1.4.3.6

Multiple faces detection

Brisque
D.1.4.2.10

Distance between eyes
D.1.4.2.3, D.1.4.2.4, D.2.4.8, D.2.5.4

Features Analyzed AFTER Capture | ISO 39794-5 Compliance

Hot spot
D.2.3.6

Skin tone
D.1.4.2.9, D.2.4.5

Red eyes
D.1.4.2.9, D.2.4.5

Smile
D.1.4.3.2, D.2.3.2

Mouth open
D.1.4.3.2, D.2.3.2

Brightness/Contrast
D.1.4.2.5, D.1.4.2.7, D.2.4.2

Blur
D.2.4.3

Uniform background
D.1.4.2.5

Uniform illumination
D.1.4.2.6, D.2.3.5

Background color
D.1.4.2.5

MRTD full frontal crop
D.1.4.4, D.2.4.9 to D.2.4.13

Compression
D.1.4.2.4, D.1.4.2.8, D.1.5.5, D.2.4.4, D.2.5.2

Background segmentation

Face-to-background difference

MRTD Full Frontal Crop

RAW

POST PROCESSING

The Way Forward!

- Multi-modal biometrics capture and verification using smartphones

- Self sovereign digital wallet