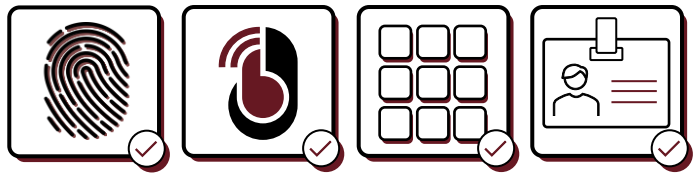
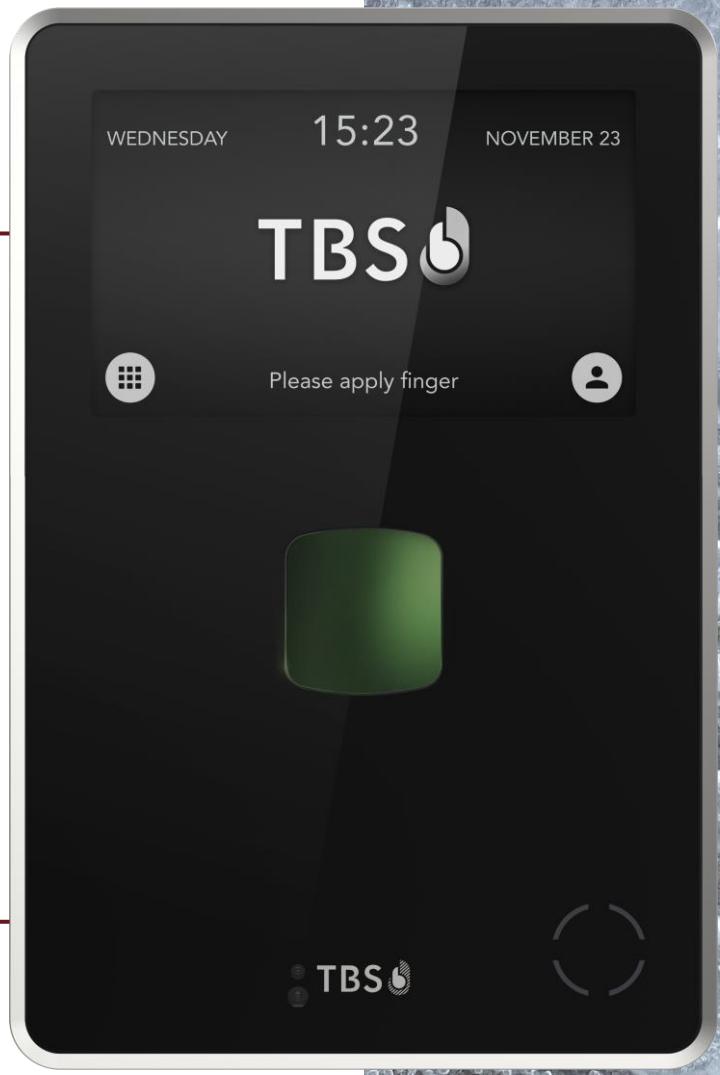
3D AIR

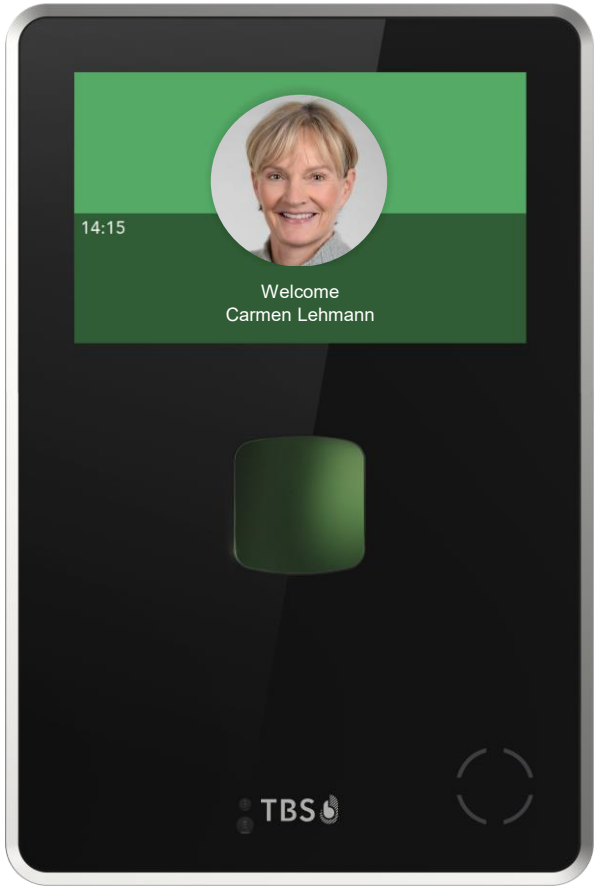
TBS





Touchless Biometric Systems AG Switzerland

3D AIR



3D AIR is a unique touchless and 3D fingerprint terminal with an outstanding recognition performance – designed and manufactured in Switzerland

(1) 3D touchless technology with superior recognition performance
(2) No “Failure to Enroll”
(3) Highest security level, hygienic
(4) Up to 50’000 users
(5) 5-inch color touchscreen
(6) TBS Anti-spoofing protection
(7) PIN Code, Mobile ID
(8) Various RFID options
(9) Verification using combined ID factors
(10) Easy setup of Time & Attendance buttons
(11) Versatile configuration and customizing (customer workflows, user interface)
(12) Manufactured in Switzerland

Enrollment Options:

(1) on 3D AIR using touchscreen
(2) on 3D AIR using remote control
(3) on 3D ENROLL USB sensor

DATASHEET 3D AIR

TECHNICAL SPECIFICATIONS

Category	Feature	Standard	Optional
Biometric Sensor	3D Fingerscan	•	
ID Factors	PIN	•	
	RFID		•
	TBS MobileID (Bluetooth)		•
User Interface	Touchscreen size	5″	
	Touchscreen Resolution	800 × 480	
	Loudspeaker	•	
Biometrics	Identification (1:N) database limit	10’000	50’000
	FRR at FAR 1:100’000	< 0.5%	
Communication	LAN	•	
	Wifi and/or BLE		•
Interfaces	RS-485 (OSDP) / RS-232	1 / 1	
	Wiegand out	1	
	Relay (NO/NC/COM, max. 60V/30W)	1	
	GPIN / GPOUT	2 / 2	
Security	Presentation Attack Detection (PAD)		•
	Tamper Switch	•	
Installation	Power supply rating	12 - 24 VDC	
	Max. power consumption	11 W	
	Power over Ethernet	•	
	Operating temperature	-20 to 60 °C	
	Operating humidity	10 to 90%	
	Wall mount or Flush mount box	•	
	Heavy Duty aluminum box		•
Certifications	CE, FCC/IC, ISO 9001/14001, UL294	•	

ACCESSORIES & FEATURES

Hardware Extensions (optional):

- Integrated RFID reader
  HF: MIFARE Classic/DESFire, HID iCLASS, LEGIC
  LF: HID Prox, other formats on request
- TBS Door Controllers:
  CONTROLLER LITE (2 relays, 2 GPIN/GPOUT, via RS-485)
  CONTROLLER SMART+ (4 relays, 4 GPIN, 4 GPOUT, via RS-485 or LAN)

Software Extensions (licensed):

- Presentation Attack Detection (Live Finger Detection):
  Power Package «High Security» required
- TBS MobileID: Power Package «Multi-Factor» required
- Extended Identification (1:N) limit with BIOMANAGER Premium Plan

Installation Options:

- Wall mount PVC box (IP20) for indoor installations
- Flush mount PVC box (IP54) for indoors and outdoors.
- Heavy Duty box (IP54, wall mount) for indoors and outdoors.
- Direct sunlight must be avoided. Outdoor protection kit is mandatory.

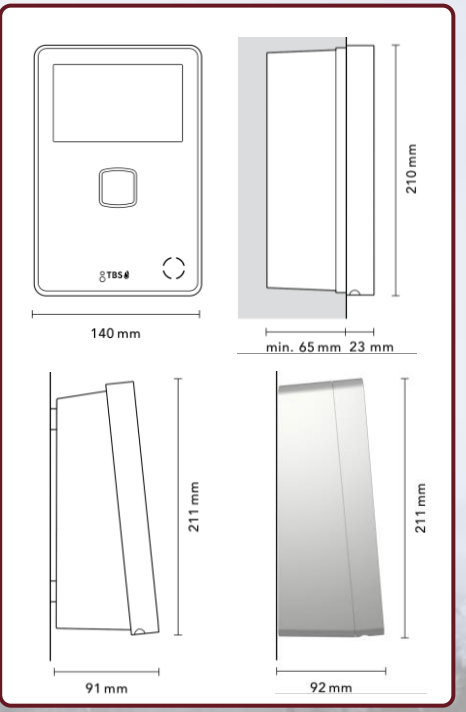
TBS System Security:

- Multi-level data encryption, with option to define a custom Template Encryption Key
- Protected communication channels (SSL) with option to use custom SSL certificates

Seamless Integration:

- Device connects to TBS BIOMANAGER Server hosted On-Premise or in the TBS Cloud
- Flexible integration options
  - REST APIs on system and device level available
  - Enrollment integration into 3rd party software supported

DIMENSIONS



CUSTOMIZING

Touchless Biometric Systems AG
02/2026

MORE THAN JUST A READER

FIVE REASONS FOR YOUR CHOICE

(1) EUROPEAN COMPETENCE YOU CAN TRUST

Swiss perfection, German thoroughness and Czech ingenuity - built on integrity and reliability.

(2) TAILOR-MADE FOR DEMANDING CLIENTS

From the world's top-rated airport to the No.1 Department of Defence, TBS is the undisputed leader in bespoke solutions.

(3) ALL-IN-ONE PLATFORM

We deliver the full spectrum: multiple bio-metric technologies on one powerful platform, integrated with all major security providers.

(4) PARTNERSHIP BEYOND THE PROJECT

For us, winning a project is only the beginning. Long-term service & support is what truly separates the wheat from the chaff.

(5) THE VALUE OF A QUALITY INVESTMENT

More performance & flexibility – less risk

LET‘S GET TO WORK

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