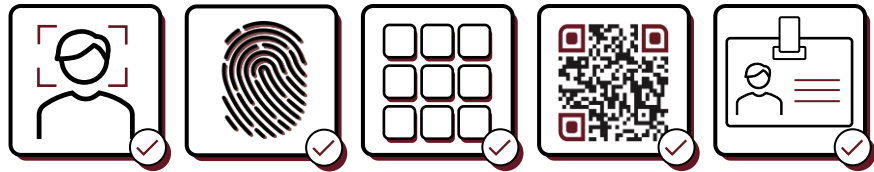
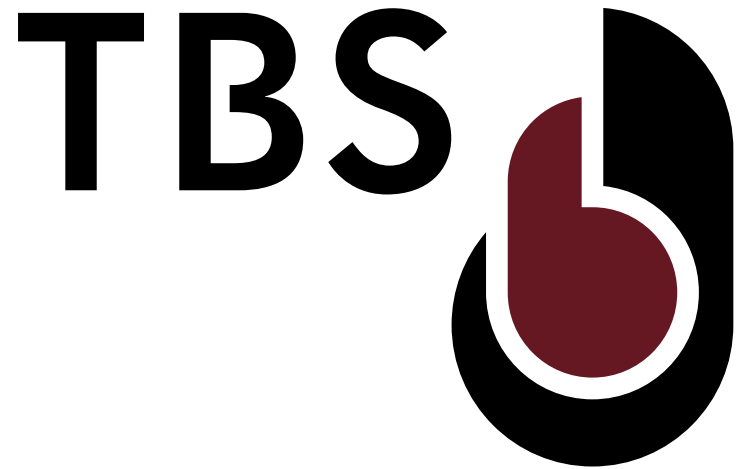
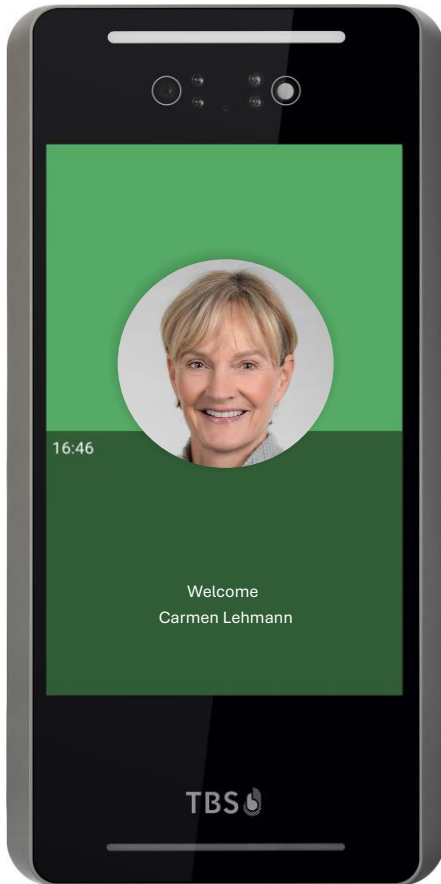


3D FLASH+



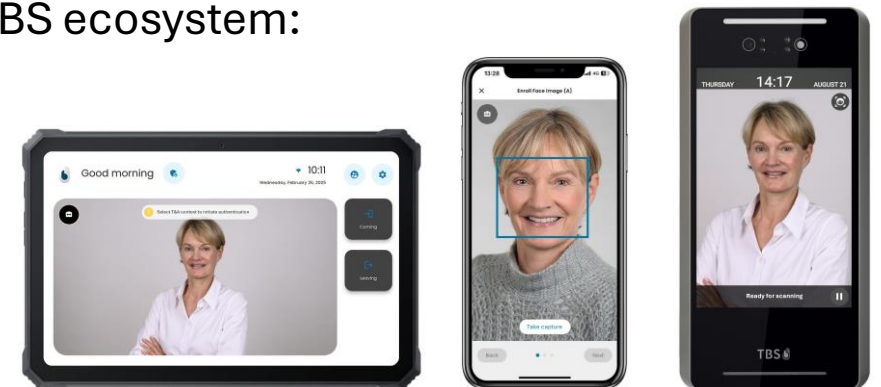
3D FLASH+ is a fast & secure Face Reader for in- and outdoor applications



- (1) Walk-through face identification
- (2) High speed < 1 second
- (3) Recognition distance up to 4 m
- (4) Up to 50'000 users
- (5) 8-inch color touchscreen
- (6) Powered by highly secure TBS firmware
- (7) TBS Anti-spoofing protection
- (8) PIN Code, QR Code
- (9) Various RFID options
- (10) Flexible combination of ID factors
- (11) Easy setup of Time & Attendance buttons
- (12) Versatile configuration and customizing (customer workflows, user interface)

Face enrollment possibilities of the TBS ecosystem:

- (1) On device using touchscreen
- (2) On device via remote control
- (3) On tablet with TBS App
- (4) On mobile phone with TBS App
- (5) On desktop webcam
- (6) Picture import from external sources



DATASHEET 3D FLASH+



TECHNICAL SPECIFICATIONS

Category	Feature	Standard	Optional
Biometric Sensor	Face Recognition	0.5 - 4m	
	Fingerprint 2D optical		•
ID Factors	PIN	•	
	RFID		•
	QR Code		•
User Interface	Touchscreen size	8"	
	Touchscreen Resolution	800 × 1280	
	Loudspeaker	•	
Biometrics	Identification (1:N) database limit	10'000	50'000
	FRR at FAR 1:100'000	< 2.0%	
Communication	LAN	•	
Interfaces	RS-485 (OSDP) / RS-232	1 / 1	
	Wiegand out	1	
	Relay (NO/NC/COM, max. 60V/30W)	2	
	GPIN / GPOUT	2	
Security	Presentation Attack Detection (PAD)	•	
	Tamper Switch	•	
Installation	Power supply rating	15-24 VDC	
	Max. power consumption	12 W	
	Operating temperature	-20 to 60 °C	
	Operating humidity	10 to 90%	
	Wall mount WM-Box (IP54), indoors	•	
Certifications	CE, FCC/IC, KC, BIS	•	

ACCESSORIES & FEATURES

Power supply and wall mounting plate included.

Hardware Extensions (optional):

- Integrated RFID reader
HF: MIFARE Classic/DESFire, HID iCLASS, LEGIC
LF: HID Prox, other formats on request
- Fingerprint Sensor Module (optical) compliant to other TBS fingerprint technologies and devices
- TBS CONTROLLER SMART+ with 4 relays, 4 GPIN, 4 GPOUT, RS-485 or LAN communication
- TBS CONTROLLER LITE with 2 relays, 2 GPIN/GPOUT, RS-485

Software Extensions (licensed):

- QR Code Reading: Power Package «Multi-Factor» required
- Extended Identification (1:N) limit with BIOMANAGER Premium Plan

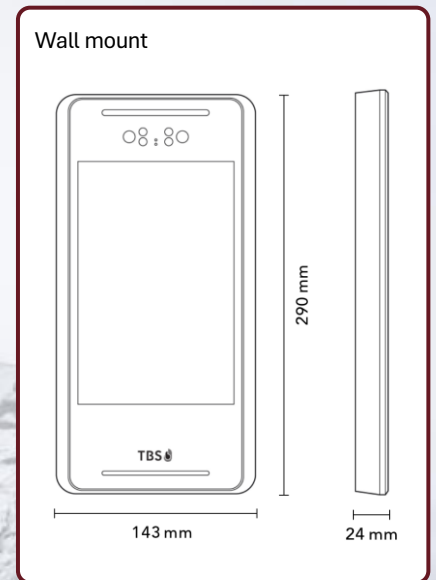
TBS System Security:

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

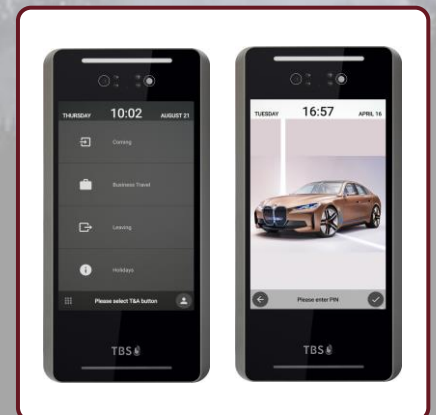
Seamless Integration:

- 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
- Flexible and versatile Enrollment Options: On-Device, Web enrollment from TBS BIOMANAGER, TBS Apps or external data import

DIMENSIONS

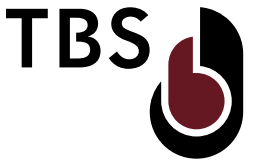


CUSTOMIZING



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 biometric 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



TRUST BIOMETRICS
SERVICES **COMPETENCE**
SPECIALIST FLEXIBILITY QUALITY
HOSPITALITY **TBS** TERMINALS
TRUST BIOMANAGER
TOP-REFERENCES SOFTWARE
SWISS **QUALITY**
DURABILITY RELIABILITY SERVICES TOUCHLESS
INTEGRITY SECURITY
MANUFACTURER COMPETENCE

