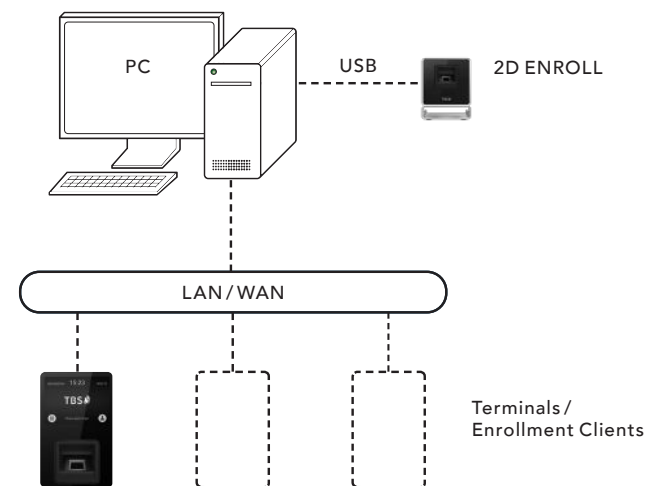


TOUCH FINGERPRINTING

2D SENSE

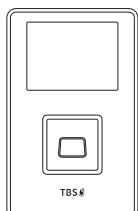
A multi-functional and user-friendly touch terminal with an excellent 2D-sensor that simply works.

- Capacitive touch sensor
- High recognition performance
- Access Control, Time & Attendance (T&A)
- Optional RFID modules
- Identification or verification with PIN or card
- Small to medium-sized user groups
- Customizable high-resolution touchscreen
- User-friendly operation and configuration
- Customer-specific modifications
- Wall mount option for indoor installations
- Flush mount for indoor and outdoor installations



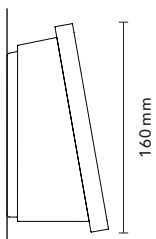


2D SENSE



100 mm

Wall mount (WM-Box)



78 mm

Flush mount (FM-Box)



60 mm 14 mm

Touchless Biometric Systems AG
 Rietbrunnen 2
 8808 Pfäffikon SZ, Switzerland
 tbs@tbs-biometrics.com
 www.tbs-biometrics.com

1 = Extendable by license. Figure indicates single fingerprints, iris pairs or hands
 •² = Indoor use only
 •³ = Mifare Classic/Desfire only
 (•)⁴ = Required if not sheltered
 (•) = Optional, accessory or license needed

5 = Supported bands:
 LTE FDD: B1/B3/B7/B8/B20/B28A
 WCDMA: B1/B8, GSM: B3/B8

6 = Either/or, specify RS type upon order

		3D ENROLL (Series 2Z)	2D ENROLL	3D FLY	3D AIR (Series 2Z)	3D LIGHT	2D IRON HD	2D IRON	2D SENSE	2D TIME	2D MOVE	TBS EDGE
Applications	Access Control			•	•	•	•	•	•			•
	Time & Attendance, Workforce Management			•	•	•	•	•	•	•	•	
Sensor	Touchless Hand Scanner			•								
	Touchless 3D Finger Scanner	•			•							
	Touchless Iris Scanner					•						
	Finger optical multispectral		compatible				•	•				
	Finger capacitive			•					•	•	•	
	Thermal camera					(•)						
User Interface	Touchscreen size in inch			7.0	5.0	5.0	5.0	5.0	3.5	9.0	7.0	
	RFID				(•)	• ³	(•)	(•)	(•)		• ³	
	PIN			•	•	•	•	•	•	•	•	
	Loudspeaker			•	•	•	•	•				
	Beeper								•			
Biometrics	Identification (1:N), database size limit ¹		10'000	10'000	10'000	10'000	10'000	10'000	5'000	5'000	5'000	special
	Verification (1:1), database size limit		100'000	100'000	100'000	100'000	100'000	100'000	100'000	100'000	100'000	100'000
	FRR at FAR 1:100'000		<0.5%	<0.5%	<0.5%	<0.5%	<1.0%	<1.0%	<2.0%	<2.0%	<2.0%	
Communication	LAN			•	•	•	•	•	•	•		•
	Wifi				(•)	(•)	(•)	(•)	(•)	•	•	
	Mobile ⁵									•	•	
Interfaces	RS-232 and RS-485			•	•	•	•	•	• ⁶			•
	Wiegand out			•	•	•	•	•	•			•
	Relay (NO/NC selectable)			2	1	1	1	1	1			2
	GPIN/GPOUT			2/2	2/2	2/0	2/2	2/2	3/1			2/2
Security	Liveness detection				(•)		(•)	(•)				
	Multi-level data encryption			•	•	•	•	•	•	•	•	•
	Template on card				(•)		(•)	(•)	(•)			
	Anti-tampering				•		•	•	(•)			
Installation	Input supply voltage DC	5	USB	24	12-24	12-15	12-24	12-24	12-24	12	USB	12-24
	Max. power rating in W	10		100	11	16	7	7	5	10		15
	Power over Ethernet				•	(PoE+)	•	•	(•)	(•)		(PoE+)
Conditions	Operating temperature in °C	0 to 60	0 to 60	0 to 45	-20 to 60	0 to 45	-20 to 60	-20 to 60	-20 to 60	0 to 35	0 to 35	0 to 45
	Humidity 10-90%	•	•	•	•	•	•	•	•	•	•	•
Mounting	Wall mount WM-Box ²				•	•		•	•	•		•
	Wall mount HD-Box				IP54		IP65					
	Flush mount FM-Box (IP54)				•			•	•			
Certifications	Outdoor protection kit				(•) ⁴				(•) ⁴			
	CE	•	•	•	•	•	•	•	•	•	•	•
	FCC/IC			•	•	•	•	•	•			•