



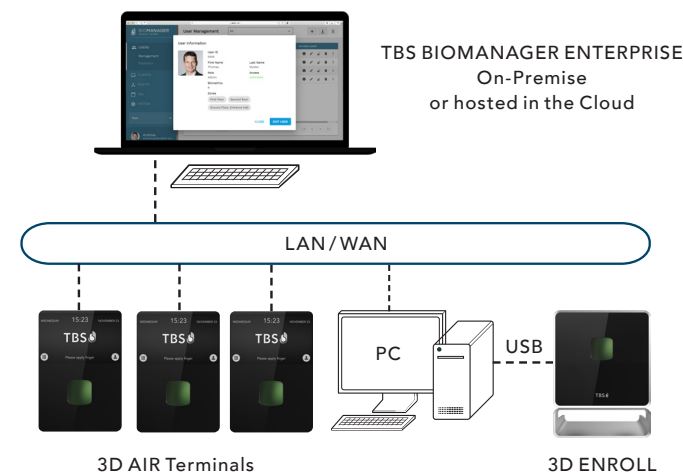
TOUCHLESS FINGER SCANNER

3D ENROLL (SERIES 22)



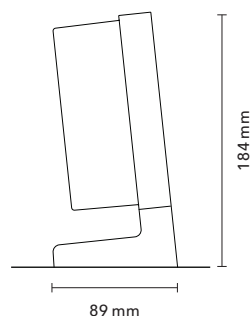
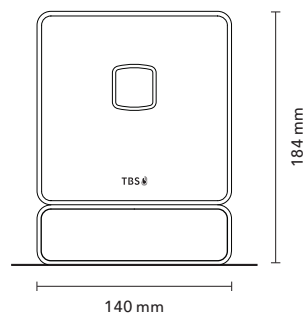
Touchless biometric sensor for dedicated enrollment of 3D fingerprint templates in combination with a PC. Includes 5V power supply.

- 3D touchless technology
- Biometric template is compatible with 3D AIR
- Access Control, Time and Attendance (T&A)
- No "Failure to Enroll"
- Superior image quality, Nail-to-nail images
- Template quality assessment and duplicate check
- Hygienic for sensitive applications





3D ENROLL (Series 22)



- 1 = HF: MIFARE Classic/DESFire (UID/CSN only)
 LF: available, format support on request
 2 = Fixed to MIFARE Classic/DESFire
 3 = Extended by BME PREMIUM plan. Figure indicates fingerprints, faces, iris pairs or hands
 4 = LTE FDD: B1/B3/B7/B8/B20/B28A
 WCDMA: B1/B8, GSM: B3/B8
- 5 = Either/or, selectable by switch
 6 = Direct sunlight must be avoided
 7 = Indoor use only
 8 = Required if not sheltered
 (•) = Optional, requires HW accessory or license

		3D FLY	3D AIR (22)	3D FLASH+	3D LIGHT (23)	2D IRON HEAVY DUTY	2D IRON	2D SENSE	2D TIME	TBS CONTROLLER SMART+	TBS EDGE
Applications	Access Control	•	•	•	•	•	•	•		•	•
	Time & Attendance, Workforce Management	•	•	•	•	•	•	•	•	•	
Sensors	Touchless Hand Scanner	•									
	Touchless 3D Finger Scanner		•								
	Touchless Face Scanner			•							
	Touchless Iris Scanner				•						
	Finger optical multispectral					•	•				
	Finger optical (ot, optional) / capacitive (ct)			(ot)				ct	ct		
	Thermal camera				(•)						
Identification	PIN	•	•	•	•	•	•	•	•		
Factors	RFID		(•)	• ¹	• ²	(•)	(•)	(•)			
	TBS MobileID (Bluetooth)		(•)			(•)	(•)	(•)			
	QR Code			(•)	(•)						
User Interface	Touchscreen size in inch	7.0	5.0	8.0	5.0	5.0	5.0	3.5	9.0		
	Loudspeaker	•	•	•	•	•	•				
	Beeper							•			
Biometrics	Identification (1:N) database limit, default ³	10'000	10'000	10'000	10'000	10'000	10'000	5'000	5'000		special
	Identification (1:N) database limit, PREMIUM ³	20'000	50'000	50'000	50'000	20'000	20'000	10'000	10'000		special
	FRR at FAR 1:100'000	<0.5%	<0.5%	<2.0%	<0.5%	<1.0%	<1.0%	<2.0%	<2.0%		
Communication	LAN	•	•	•	•	•	•	•	•	•	•
	Wifi		(•)		(•)	(•)	(•)	(•)	•	•	
	Mobile 4G ⁴								•		
Interfaces	RS-232 and RS-485	•	•	•	•	•	•	• ⁵		RS-485	•
	Wiegand out	•	•	•	•	•	•	•			•
	Number of Relais (NO/NC/COM)	2	1	2	1	1	1	1		4	2
	GPIN/GPOUT	2/2	2/2	2	2/0	2/2	2/2	3/1		4/4	2/2
Security	Presentation Attack Detection (PAD)		(•)	(•)		(•)	(•)				
	Multi-level data encryption	•	•	•	•	•	•	•	•	•	•
	Template on card		(•)			(•)	(•)	(•)			
	Tamper Switch		•		•	•	•	(•)		•	
Installation	Input supply voltage DC	24	12-24	15-24	12-24	12-24	12-24	12-24	12	12-24	12-24
	Max. power rating in W	100	18	12	16	10	10	5	10	3	15
	Power over Ethernet		•			•	•				
	Operating temperature in °C ⁶	0 to 45	-20 to 60	-20 to 60	0 to 45	-20 to 60	-20 to 60	-20 to 60	0 to 35	-20 to 60	0 to 45
Mounting	Wall mount WM-Box ⁷		IP20	IP54	IP30		IP20	IP20	IP30	IP20	•
	Wall mount HD-Box		IP54			IP65					
	Flush mount FM-Box		IP54				IP54	IP54			
	Outdoor protection kit ⁸		(•)	(•)			(•)	(•)			
Certifications	CE	•	•	•	•	•	•	•	•	•	•
	FCC/IC	•	•	•	•	•	•	•			•
	UL 294		•			•	•				