



tbs-biometrics.com

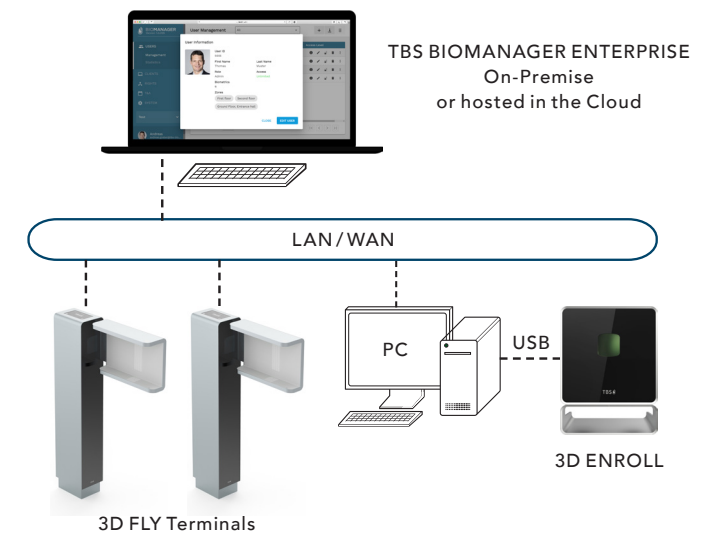
TOUCHLESS HAND SCANNER

3D FLY



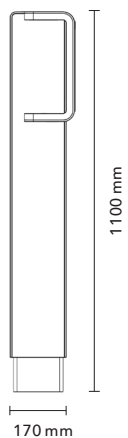
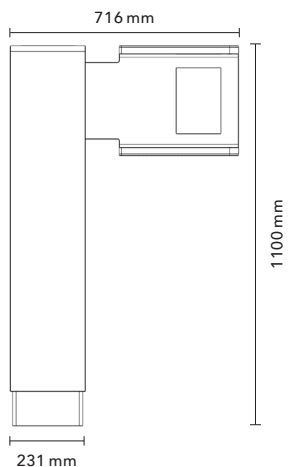
Biometric terminal with world's fastest and most accurate "on-the-fly" identification for speed-lanes. High security and throughput delivering the best user experience.

- High-speed technology: Walk by. Fly through.
- Hand capture on-the-fly: secure & convenient
- Touchless & hygienic for maximum user comfort
- Four-finger-principle: lower false rejection by offering 4 biometric samples simultaneously
- Identification within a second
- Secure access control for high throughput situations
- Capacity for large user database
- Variable configuration and customizing
- Indoor installation





3D FLY



- 1 = HF: MIFARE Classic/DSEFire (UID/CSN only)
LF: available, format support on request
2 = Fixed to MIFARE Classic/DSEFire
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		•			•	•				