



reddot design award  
honourable mention

TOUCHLESS FINGER SCANNER

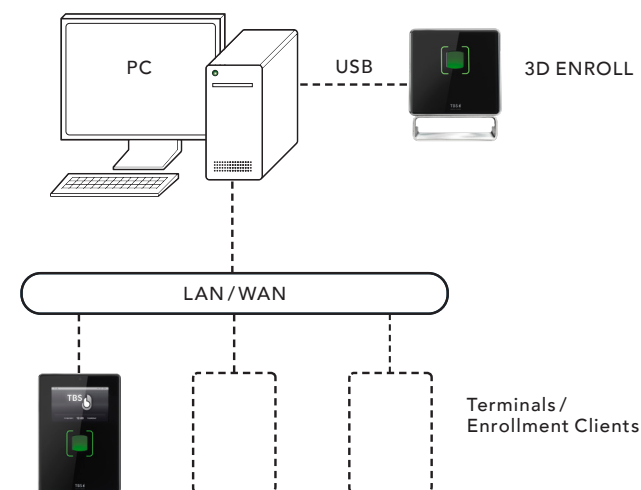
## 3D AIR (SERIES 12)

3D AIR is a unique touchless biometric terminal and was the world's first to introduce 3D finger-scanning. Touchless fingerprint yielding the highest security level!

- 3D touchless technology with superior recognition
- Highest security level
- Hygienic for sensitive applications
- Superior identification performance
- No "Failure to Enroll"
- Identification or verification with PIN
- Access Control, Time and Attendance (T&A)
- Optional RFID, liveness detection
- Personalizable touchscreen
- User-friendly operation and configuration
- Wall mount option for indoor installations
- Flush mount for indoor and outdoor installations

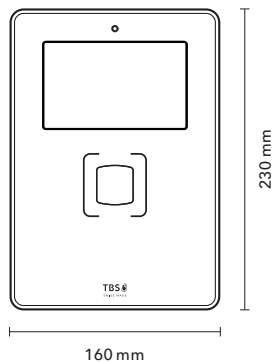


tbs-biometrics.com

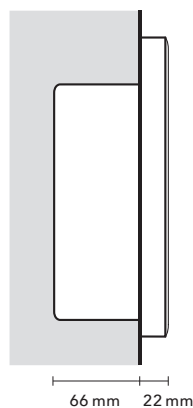




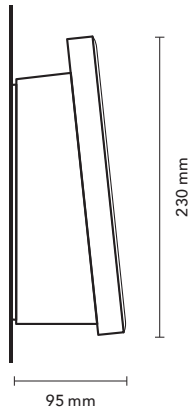
### 3D AIR (Series 12)



Flush mount (FM-Box)



Wall mount (WM-Box)



- 1 = Extendable by license. Figure indicates single fingerprints, iris pairs or hands
- 2 = Indoor use only
- 3 = Mifare Classic/Desfire only
- (\*) = Required if not sheltered
- (\*) = Optional, accessory or license needed
- (2)<sup>5</sup> = Requires internal RelayBoard
- 6 = Supported bands:  
LTE FDD: B1/B3/B7/B8/B20/B28A  
WCDMA: B1/B8, GSM: B3/B8
- 7 = Either/or, specify RS type upon order

		3D ENROLL	2D ENROLL	3D FLY	3D AIR	3D LIGHT	2D IRON HD	2D IRON	2D SENSE	2D TIME	2D MOVE	TBS EDGE
Applications	Access Control			•	•	•	•	•	•			•
	Time & Attendance, Workforce Management			•	•	•	•	•	•	•	•	
Sensor	Touchless 3D+ hand scanner			•								
	Touchless 3D finger scanner	•			•							
	Touchless iris scanner					•						
	Multispectral optical finger		compatible				•	•				
	Capacitive touch finger		•						•	•	•	
	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				(*)	• <sup>3</sup>	(*)	(*)	(*)		• <sup>3</sup>	
	PIN			•	•	•	•	•	•	•	•	
	Loudspeaker			•	•	•	•	•				
	Beeper								•			
Biometrics	Identification (1:N), database size limit <sup>1</sup>		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 <sup>6</sup>									•	•	
Interfaces	RS-232 and RS-485			•	•	•	•	•	• <sup>7</sup>			•
	Wiegand out			•	•	•	•	•	•			•
	Relay (NO/NC selectable)			2	(2 <sup>5</sup> )	1	1	1	1			2
	GPIN/GPOUT			2/2	(1/1 <sup>5</sup> )	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	16		225	18	16	10	10	5	10		15
	Power over Ethernet				(PoE+)	(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				• <sup>2</sup>	• <sup>2</sup>	IP65	• <sup>2</sup>	• <sup>2</sup>	• <sup>2</sup>	(*) <sup>2</sup>	• <sup>2</sup>
	Flush mount (IP54)				(*)			(*)	(*)			
	Outdoor protection kit				(*) <sup>4</sup>				(*) <sup>4</sup>			
Certifications	CE	•	•	•	•	•	•	•	•	•	•	•
	FCC/IC			•		•	•	•	•			•