



PRELIMINARY

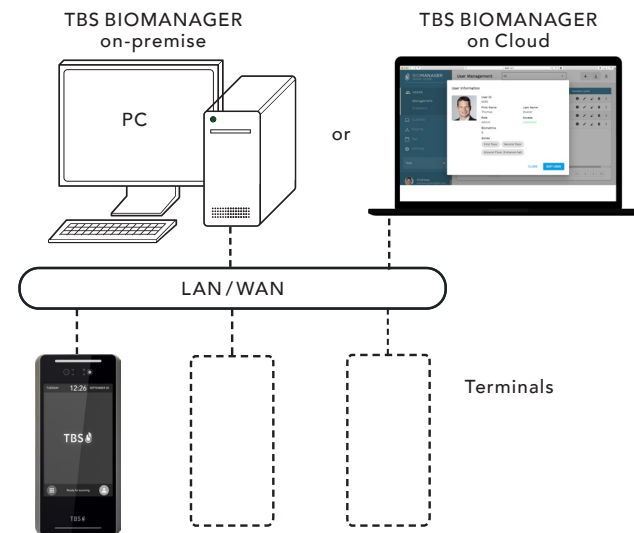


TOUCHLESS FACE SCANNER

3D FLASH+

3D FLASH+ is the latest addition to the TBS family. Using powerful 3D algorithms for facial recognition, it offers walk-through identification including anti-spoofing check against photos, videos and face masks.

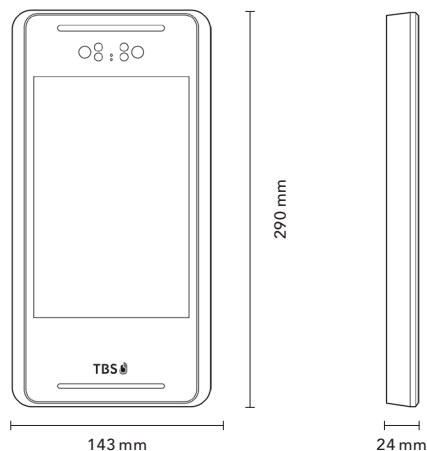
- Superior identification speed (< 1 second)
- Facial recognition distance configurable
- Built-in Anti-spoofing protection
- RFID card (optional) and PIN code support
- Built-in enrollment directly on the reader (no tracking of persons that are not enrolled)
- Hygienic for sensitive applications in Access Control or Workforce Management
- Customizable touchscreen
- Wall mount for indoor installations
- Power supply included in package
- Optional thermal sensor for body temperature





3D FLASH+

Wall mount



PRELIMINARY

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 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 FLY	3D AIR (Series 2)	3D FLASH+	3D LIGHT	2D IRON HEAVY DUTY	2D IRON	2D SENSE	2D TIME	2D MOVE	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 capacitive							•	•	•	
	Thermal camera			(•)	(•)						
Identification	PIN	•	•	•	•	•	•	•	•	•	
Factors	RFID		(•)	(•)	• ³	(•)	(•)	(•)		• ³	
	Mobile Access (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	7.0	
	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	special
	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 4G ⁵								•	•	
Interfaces	RS-232 and RS-485	•	•	•	•	•	•	• ⁶			•
	Wiegand out	•	•	•	•	•	•	•			•
	Relay (NO/NC/COM)	2	1	2	1	1	1	1			2
	GPIN/GPOUT	2/2	2/2	2	2/0	2/2	2/2	3/1			2/2
Security	Liveness detection		(•)	(•)		(•)	(•)				
	Multi-level data encryption	•	•	•	•	•	•	•	•	•	•
	Template on card		(•)			(•)	(•)	(•)			
	Tamper Switch		•	•	•	•	•	(•)			
Installation	Input supply voltage DC	24	12-24	15-24	12-15	12-24	12-24	12-24	12	USB	12-24
	Max. power rating in W	100	11	23	16	7	7	5	10		15
	Power over Ethernet		•		(PoE+)	•	•	(•)	(•)		(PoE+)
	Operating temperature in °C	0 to 45	-20 to 60	-20 to 60	0 to 45	-20 to 60	-20 to 60	-20 to 60	0 to 35	0 to 35	0 to 45
Mounting	Wall mount WM-Box ²		•	IP65	•		•	•	•	(•)	•
	Wall mount HD-Box			IP54		IP65					
	Flush mount FM-Box (IP54)		•				•	•			
	Outdoor protection kit		(•) ⁴				(•) ⁴	(•) ⁴			
Certifications	CE	•	•	•	•	•	•	•	•	•	•
	FCC/IC	•	•	•	•	•	•	•	•	•	•