



with

**GENERALE**  
S i s t e m i | Country  
Partner  
for Italy



Thermal Sensor Module

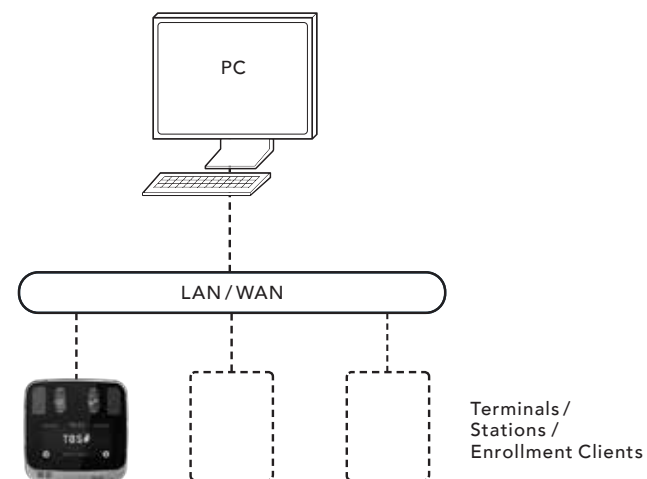
tagitalia.it  
www.generalesistemi.it  
tbs-biometrics.com

## IRIS RECOGNITION

# 3D LIGHT

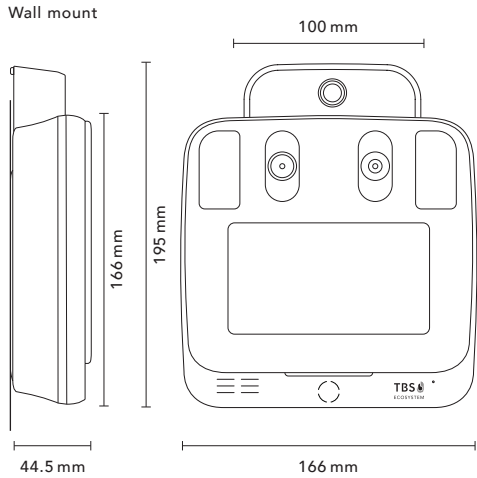
Hands-free biometric terminal with iris identification coupled with face detection for a faster and smoother user experience. To match today's health challenges, face mask can be checked before granting access.

- Iris technology with superior recognition
- High security access and time & attendance
- Including RFID module for Mifare Classic/DesFire
- Identification or verification with PIN or card
- For sensitive applications with face mask detection
- Small to large user groups
- Wall mount option (includes wall mount bracket)
- Indoor installation
- Enrollment on terminal
- Personalizable touchscreen
- Variable configuration and customizing
- Including power supply 15 VDC with mains cable
- Optional thermal sensor for body temperature



Terminals/  
Stations/  
Enrollment Clients

3D LIGHT with optional thermal sensor



**THERMAL SENSOR SPECIFICATIONS**

Thermal sensitivity	<50mK (+/- 0.05 °C)
Calibration	Automatic at startup
Temperature alarm	Configurable per reader, 0.1 °C
Thermal imaging	Displayed on LCD of 3D LIGHT
Digital & power connection	USB (internal)
Certifications	CE, FCC, KC
Operating temperature	15 to 35 °C
Waterproof	Yes
Comment	Incompatible with WiFi dongle

Generale Sistemi S.r.l.  
Via Fra i Campi 13/C  
59100 Prato (PO) - ITALY  
www.generalesistemi.it  
info@generalesistemi.it

- 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
- 4 = Supported bands: LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8, GSM: B3/B8
- 5 = Either/or, specify RS type upon order

		3D ENROLL (Series 22)	2D ENROLL	3D FLY	3D AIR (Series 22)	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				(•)	(•)	(•)	(•)	(•)		(•)	
	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>5</sup>									•	•	
Interfaces	RS-232 and RS-485			•	•	•	•	•	• <sup>6</sup>			•
	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 <sup>2</sup>				•	•		•	•	•		•
	Wall mount HD-Box				IP54		IP65					
	Flush mount FM-Box (IP54)				•			•	•			
Certifications	Outdoor protection kit				(•) <sup>4</sup>				(•) <sup>4</sup>			
	CE	•	•	•	•	•	•	•	•	•	•	•
	FCC/IC			•	•	•	•	•	•			•