



ICS

RETAIL
INFORMATION
SYSTEMS

ΚΑΡΑΦΥΛΛΗΣ ΑΕ

The Perfect Authentication Terminal with built in Inner skin Dual Sensor - *World's First*

The Sleek, elegant design encompasses our market leading one of a kind solution, enterprise level features and an intuitive user interface that simplifies set up and installation.

The TSG line of products are engineered and designed for the highest level of performance in access control, security, time & attendance and workforce management.



TSG-550

Innerskin Verification
Fake Fingerprint Detection
PoE and WiFi



**World's First
& World Best**



TSG-550

The Perfect Authentication Terminal
with built in Inner skin Dual Sensor

Product Features



Easy Installation and User Friendly Management

- Easy installation using PoE and WiFi
- Standalone & Network Connection (RS 485, TCP/IP, Wireless)
- Icon menu for administrator
- Product extension connecting external fingerprint reader



World's First Innerskin Dual Sensor Algorithm

- Built in Innerskin Dual Sensor algorithm (option)
- Verification rate 100% for scratched, dry, and damaged fingerprint
- Fake fingerprint detection technology
- Fingerprint sensor selection depending on the project characteristic demand:
Optical Sensor only or Dual Sensor (optic + AES 1711)
or LE (Light Emitting) Sensor



High Definition Color Display

- 2.8" TFT color LCD
- Check the status of the communication on the screen
- Check the LOCK status on the screen
- Current Time/Operation Mode/Function Button



Various Access Control Function

- Anti-pass back function
- Limited access setup
- Max 256 time zone setup
- Function key setup by time
- Grouping and sending/receiving users by group through TSG-550



Micro SD Memory Card

- Upload and download user's fingerprint/card/password
- Save access events
- Firmware update

Product Specifications

CPU	32bit ARM
Memory	64M Flash, 64M RAM
Display	2.8" TFT Color LCD
Optical Sensor	500dpi
Innerskin Sensor (option)	AES 1711 (Innerskin verification) (Fake fingerprint detection)
LE Sensor (option)	Light Emitting (500dpi)
F/P Storage	2K,10K,30K,50K
Event Log	500K Events
Network	RS 485 / TCP IP / WiFi
WiFi	Yes (option)
USB	SD Memory card
Relay	2
Door Phone	No
POE (Power of Ethernet)	Yes
RF card	EM/HID/MIFARE/iCLASS
Wiegand Input	26/34/37bit
Wiegand Output	26/34/37bit
TTL Input	4Port
10KEY	Touch Keypad
Function Key	Touch Keypad
Product Size	118*163*40(mm)
External Reader connection (485)	Yes (Max 4)
Voice Output	Yes
LED	BLUE,RED
Tamper Switch	Yes
F/P touch sensor	Yes
DHCP	Yes
Power	12V
Humidity	20% ~ 80%
Temperature	-20 ~60
Language	English/Arabic/Persian/Spanish/Greek/etc

Sensor Type

Type	Optical Sensor	LE Sensor	AES 1711 (Authetec) Sensor	Dual (Optic+AES 1711) Sensor	Dual (LE+AES 1711) Sensor
Resolution(dpi)	500dpi	500dpi	500dpi	500dpi	500dpi
pixel	288 x288	288 x352	128 x8	288 x288	288 x352
Innerskin Verification	No	No	Yes	Yes	Yes
Fake Fingerprint	No	Yes	Yes	Yes	Yes