

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

Our revolutionary Innerskin Dual Sensor is designed for an environment where the user are likely to be exposed to dry, constant sunlight, dust, dirt, and even in spoof detection. Thus, TSG – 550's Innerskin Dual Sensor compensates the defect from the optical sensor's high fail authentication rate.
(Patent registration no: 10-2011-0131728)



TSG-550

Innerskin Verification
Fake Fingerprint Detection
PoE and WiFi



World's First
& World Best



TSG-550

The Perfect Authentication Terminal
with built in Innerskin 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 |



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