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TRUSTONE Innovative Technology

- ✓ Dual Fingeprint Sensor(option)
- ✓ Spoof Detection
- ✓ Easy P2P Connection
- ✓ Visitor Mgmt – VoIP
- ✓ In/Out Monitoring
- ✓ Access Control
- ✓ Time & Attendance

Dual Fingerprint Sensor

Spoof Detection Presentation

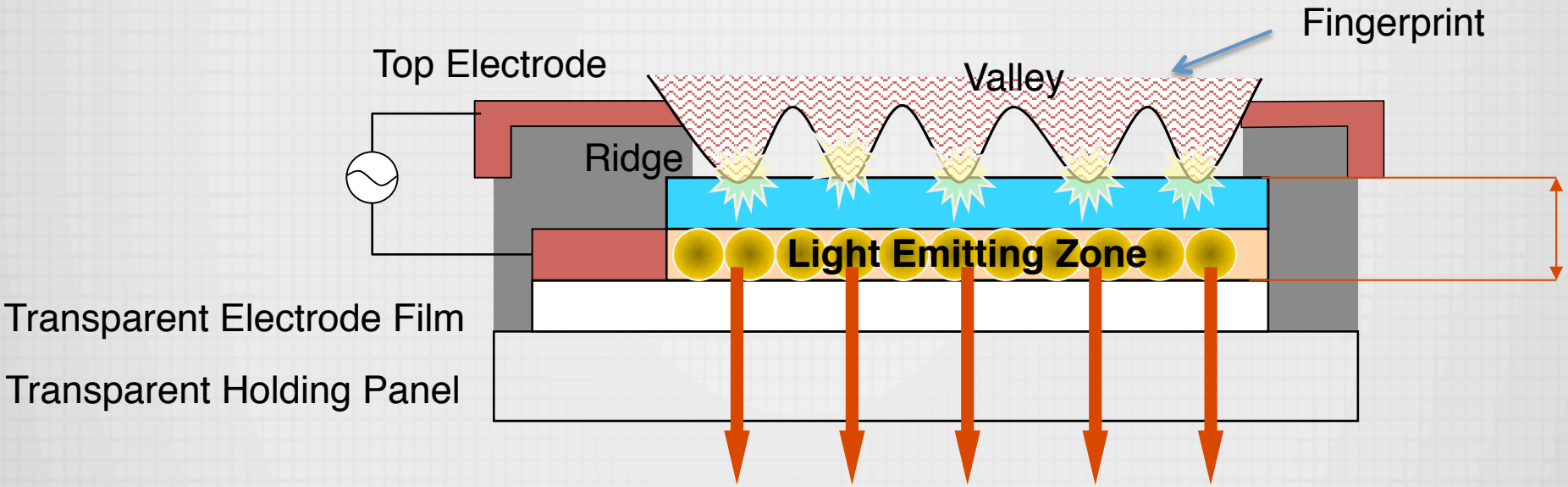
CLICK HERE

http://www.youtube.com/watch?v=aPWzmVYsxCQ

Dual Fingerprint Sensor

1. LE (Light Emitting) Sensor

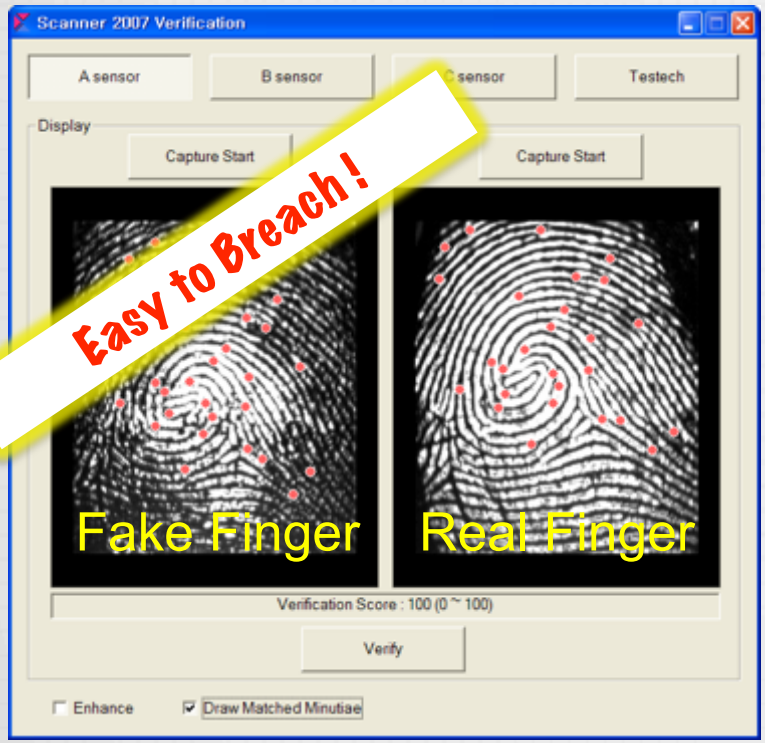
Polymer based sensor which emits light when fingerprint is contacted



Dual Fingerprint Sensor

2. LE Sensor Advantages

A. Spoof Detection



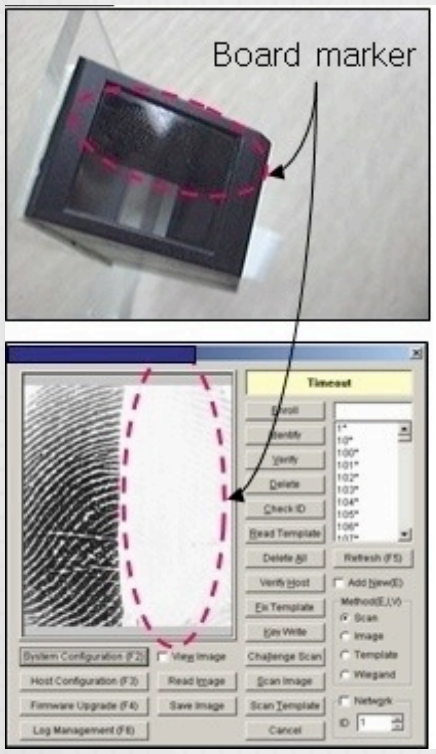
[Optical Sensor]

[LE Sensor]

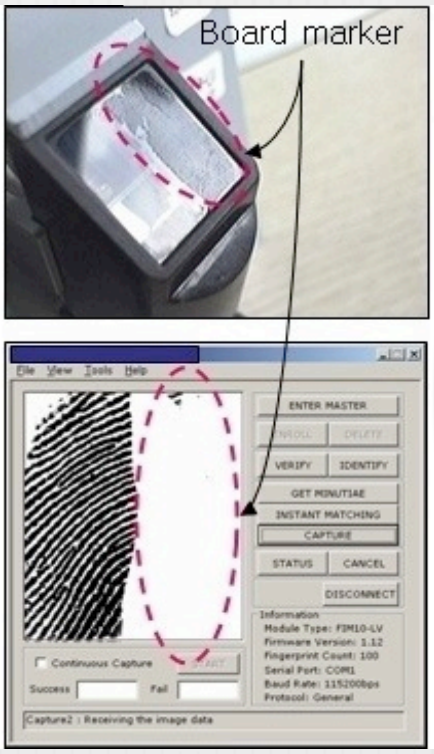
Dual Fingerprint Sensor

2. LE Sensor Advantages

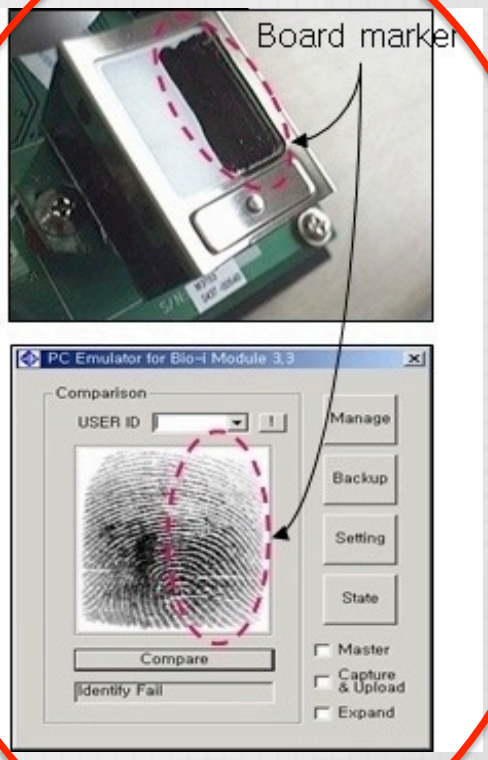
B. Strong Chemical / Dust Resistance (Test 1)



[Optical Sensor A]



[Optical Sensor B]

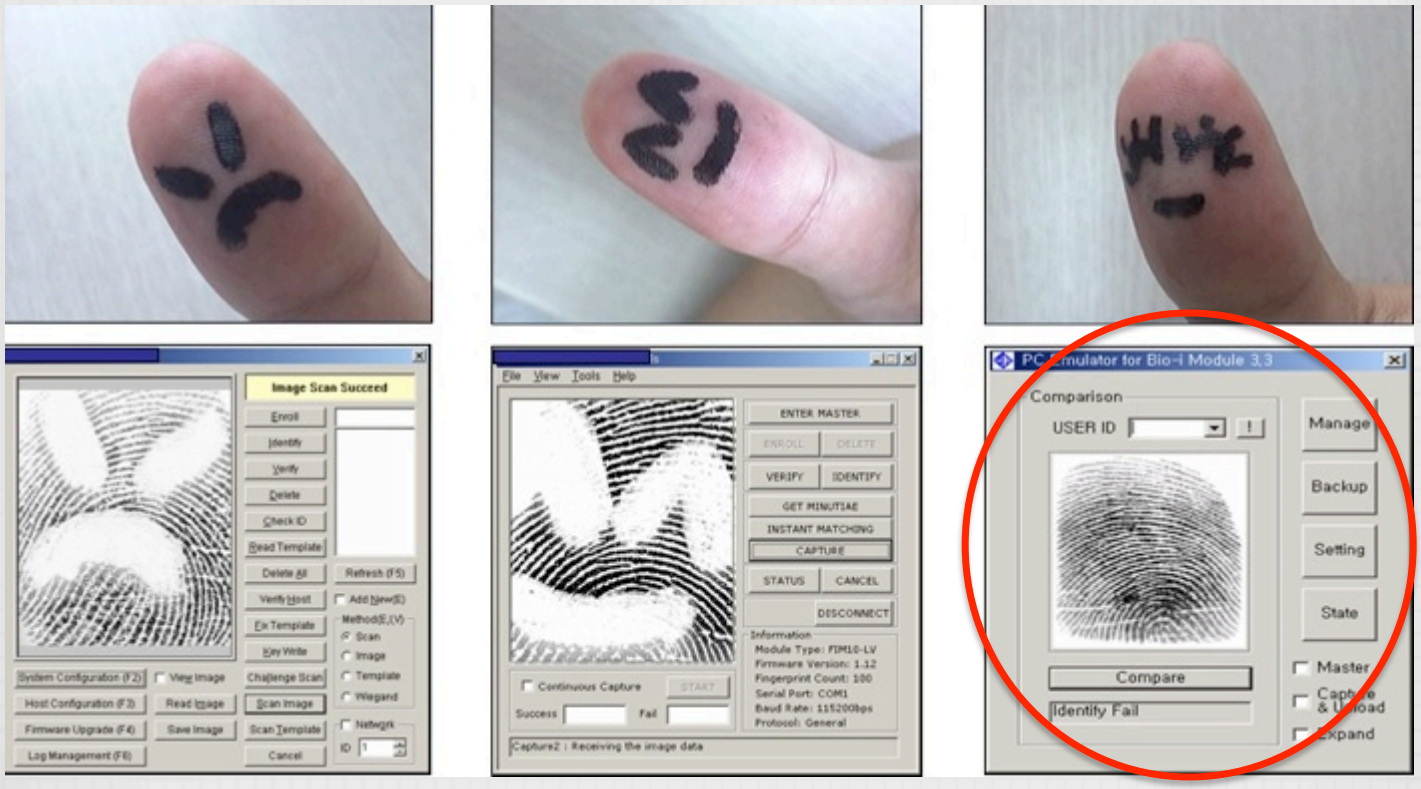


[LE Sensor]

Dual Fingerprint Sensor

2. LE Sensor Advantages

B. Strong Chemical / Dust Resistance (Test 2)

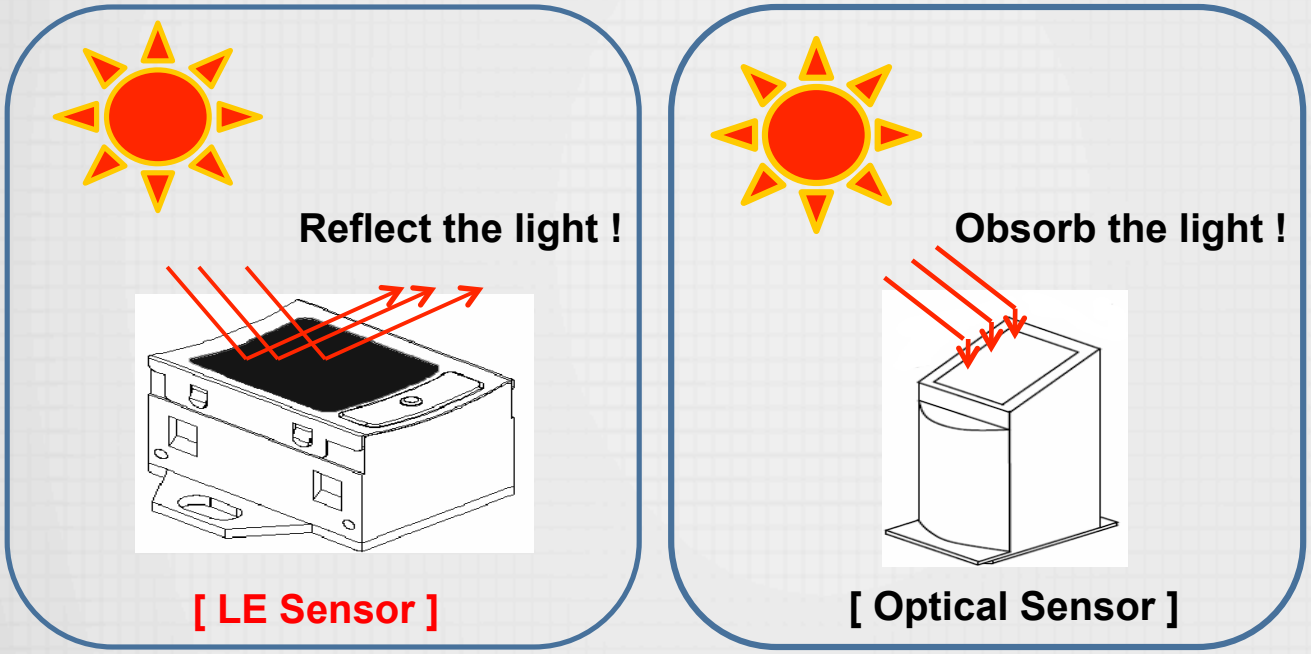


[Optical Sensor A] [Optical Sensor B] [LE Sensor]

Dual Fingerprint Sensor

2. LE Sensor Advantages

C. Strong against direct sunlight



LE Sensor works well even with the direct sunlight by reflecting the light, not like the optical sensor.

Dual Fingerprint Sensor

3. Inner Skin Sensor – Authentec (AES 1711)

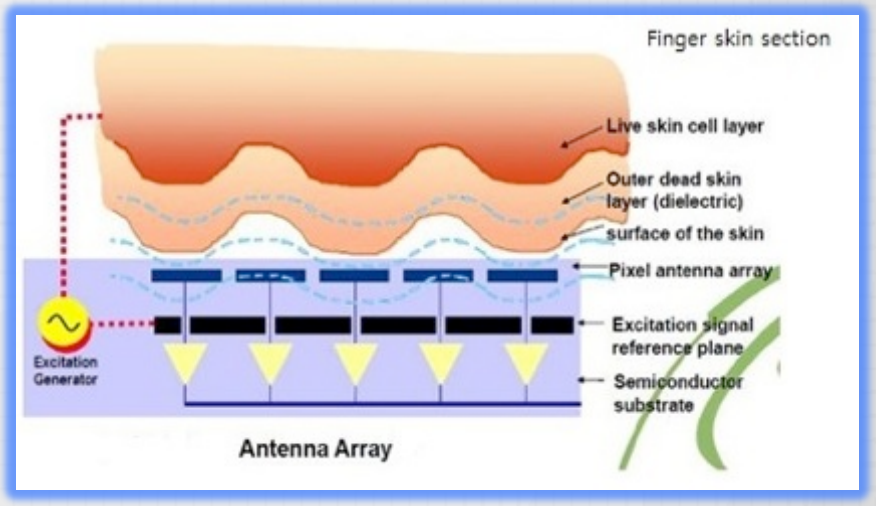
- RF Type Inner Skin Layer capturing inner fingerrpint

[Advantages]

A. No Effect from Outer Conditions such as Dry, Sunlight, Dust, etc.

B. No Effect from Contamination

=> Scratched / Damaged fingerprints can be read !!



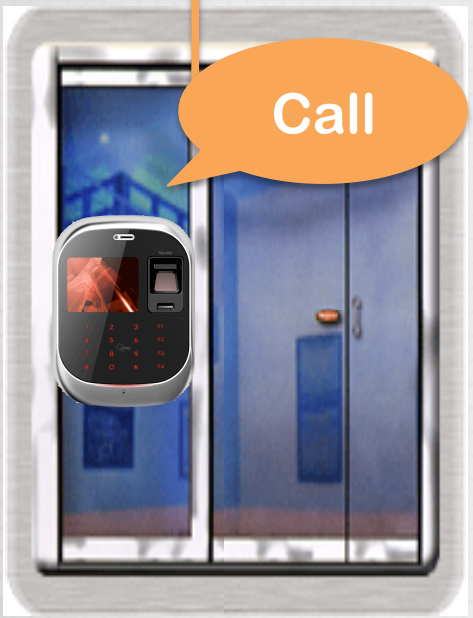
Visitor Management - VoIP

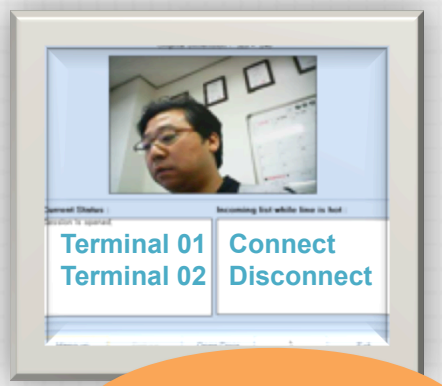
Visitor Management - VoIP

[TCP/ IP]

- Visitor Mangement w/ Video & Audio Communication
- Door Control via PC

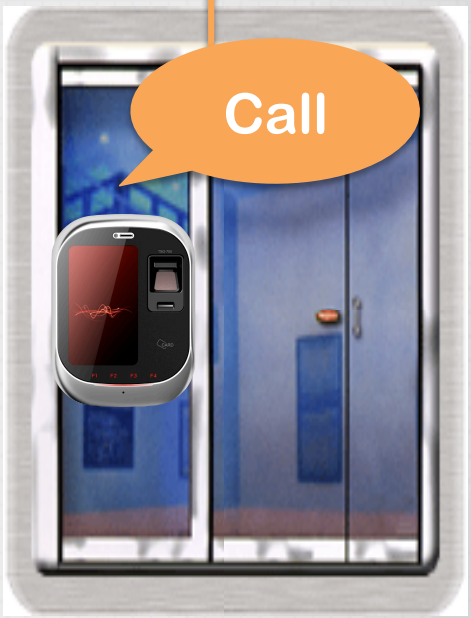
[Terminal 01]



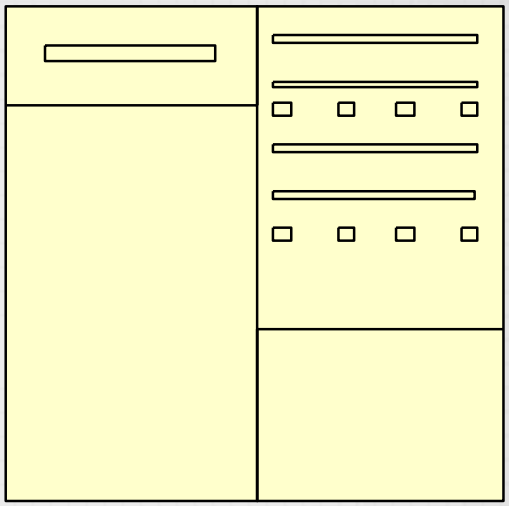


[USER]

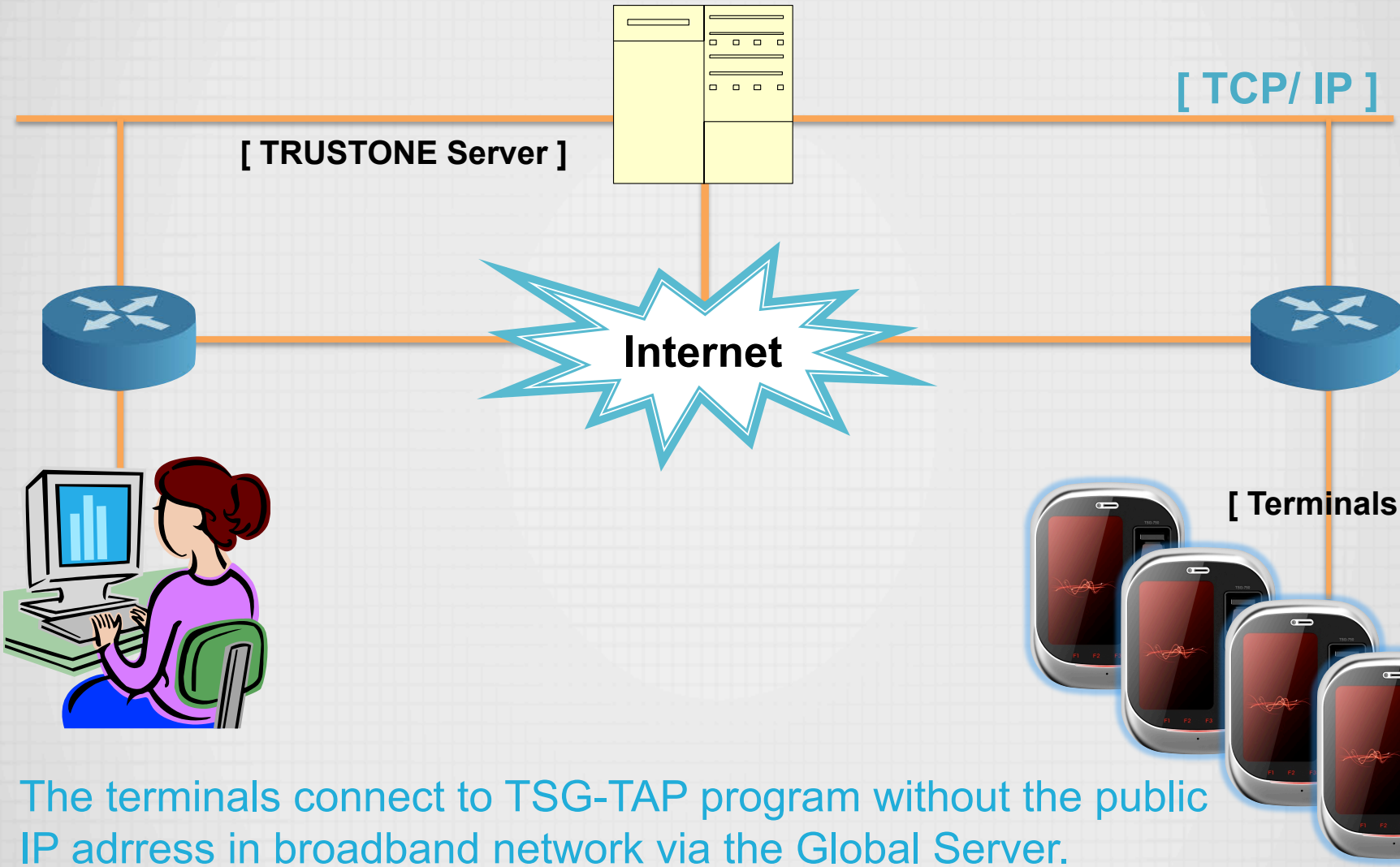
[Terminal 02]



P2P Connection
- Easy to Configure



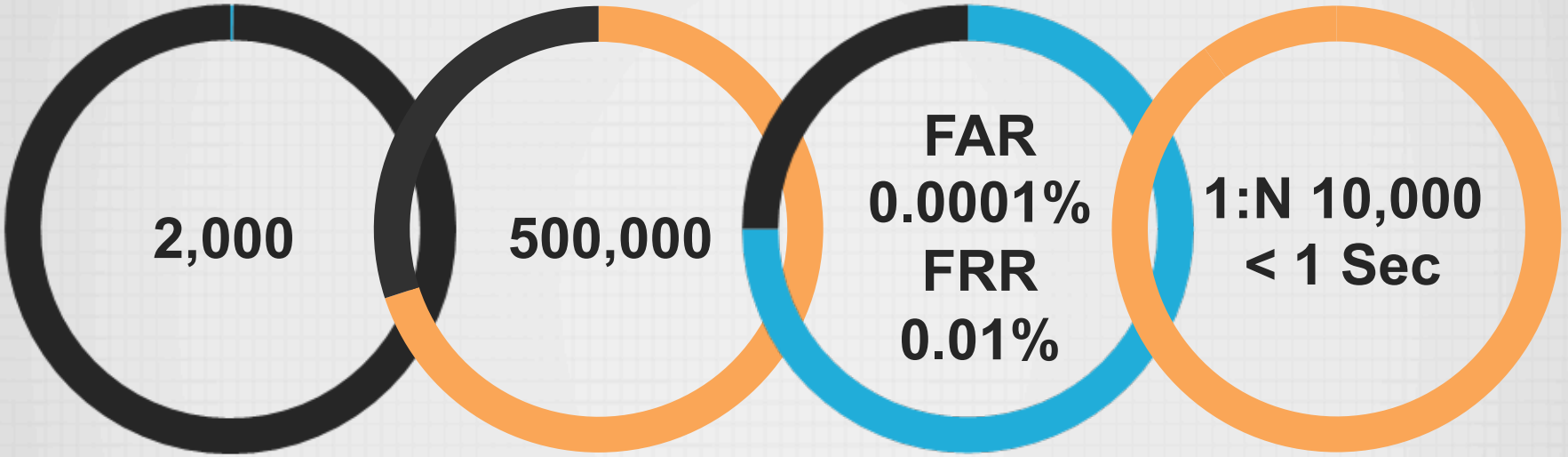
P2P Connect



The terminals connect to TSG-TAP program without the public IP adrress in broadband network via the Global Server.

TSG-750
Key Features

Key Features



Fingerprint Capacity	Event Log Capacity	FAR / FRR	Matching Speed
10K, 30K and 50K (Optional)			

Key Features - Specification

User Capacity: 2,000 (Default) / (Optional up to 50K)
1:N Speed for 10,000 < 1 Sec
FAR 0.0001% / FRR 0.01%

Communication to Server:
- **TCP/IP, Wi-Fi (Optional)**
- **RS-485 – Max 64 Devices**

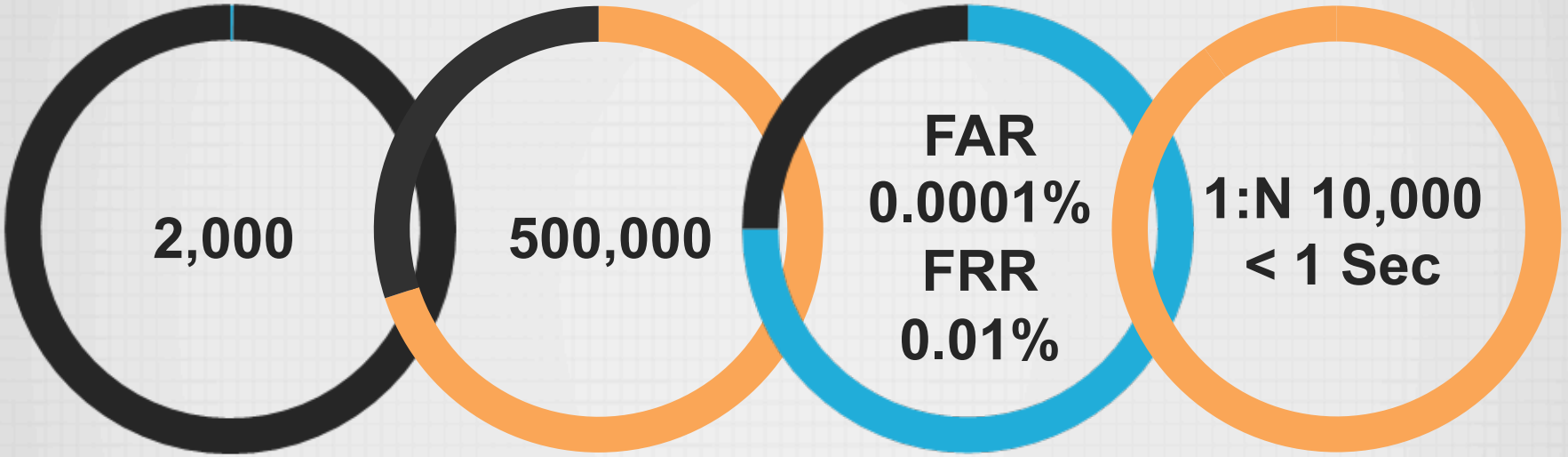
Interface: Weigand IN/OUT, SD Memory Card
I/O Port: 8 IN / 4 Out

4.3 Inch Full Touch Screen LCD
Face Detection Embbeded

Card Type: HID Prox, iClass, Mifare or EM
Support VoIP, Connect Door Phone
POE (Power of Ethernet)
40 Customizable Function Keys
Authenitcaion Mode: Fingerprint / Card / PIN

TSG – 550
Key Features

Key Features



Fingerprint Capacity	Event Log Capacity	FAR / FRR	Matching Speed
10K, 30K and 50K (Optional)			

Key Features - Specification

User Capacity: 2,000 (Default) / Optional up to 50K
1:N Speed for 10,000 < 1 Sec
FAR 0.0001% / FRR 0.01%

Communication to Server:
- **TCP/IP, Wi-Fi (Optional)**
- **RS-485 – Max 64 Devices**

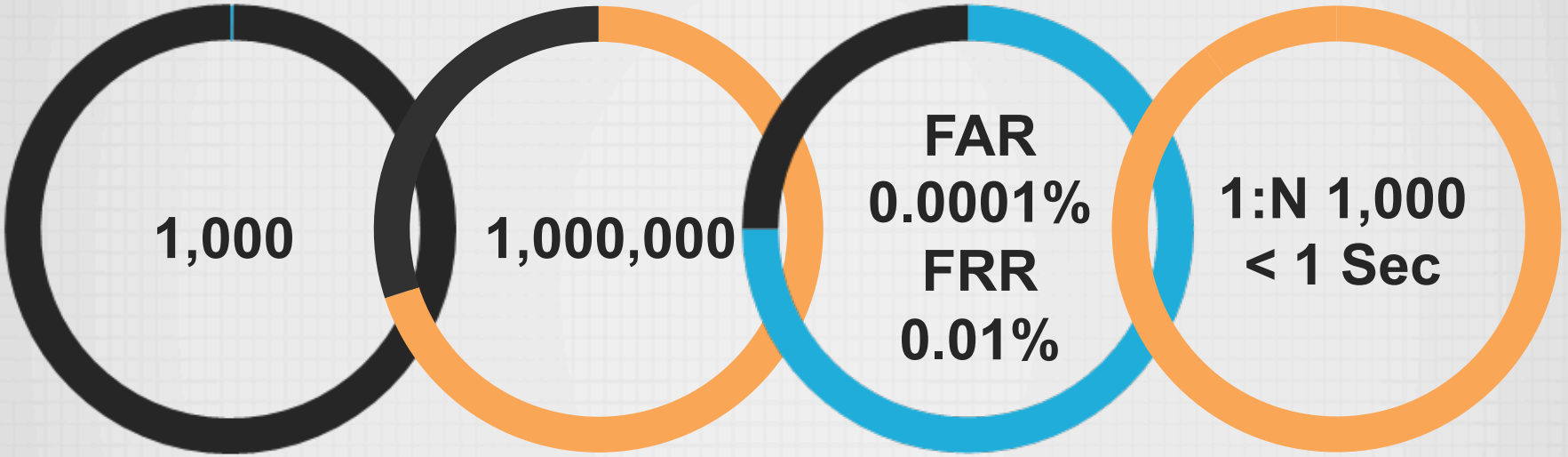
Interface: Weigand IN/OUT, SD Memory Card
I/O Port: 8 IN / 4 Out

2.8 Inch TFT Color LCD

Card Type: HID Prox, iClass, Mifare or EM
POE (Power of Ethernet)
Authenitcaion Mode: Fingerprint / Card / PIN

TSG-250
Key Features

Key Features



Fingerprint Capacity	Event Log Capacity	FAR / FRR	Matching Speed

Key Features - Specification

User Capacity: 1,000 (Default)
1:N Speed for 1,000 < 1 Sec
FAR 0.0001% / FRR 0.01%

Communication to Server:
- **TCP/IP**
- **RS-485 – Max 64 Devices**

Interface: Weigand Out, SD Memory Card
Relay : 1, Alarm relay : 1

1.8 Inch Color LCD

Card Type: HID Prox, iClass, Mifare or EM
40 Customizable Function Keys
Authenitcaion Mode: Fingerprint / Card / PIN

Comparison Chart

Feature	TSG-750	TSG-550	TSG-250	Remarks
User Capacity	2,000 (Default) 10K, 30K and 50K (Optional)	2,000 (Default) 10K, 30K and 50K (Optional)	1,000 (Default)	
1:N 10,000 Speed	< 1Sec	< 1 Sec	< 1Sec	
Event Log	500,000	500,000	1,000,000	
LCD	4.3 Inch Full Touch	2.8 Inch TFT	1.8 Inch Full Touch	
Camera	Yes	No	No	1.3M (Face Detection)
SD Memory	Yes	Yes	Yes	Micro
POE	Yes	Yes	No	
Communication	TCP/IP, RS-485 Wi-Fi (Optional)	TCP/IP, RS-485 Wi-Fi (Optional)	TCP/IP, RS-485	
Spoof Detection	Yes	Yes	Yes	LE Sensor
VoIP	Yes	Yes	Yes	Visitor Management
P2P	Yes	Yes	Yes	
Card	EM, Mifare, HID Pro or iClass	EM, Mifare, HID Prox or iClass	EM, Mifare, HID Pro or iClass	
FAR/FRR	0.0001% / 0.01%	0.00001% / 0.01%	0.0001% / 0.01%	
Size (W * H * D)	118 * 163 * 40	118 * 163 * 40	60 * 165 * 40	

TSG-TAP S/W Specification

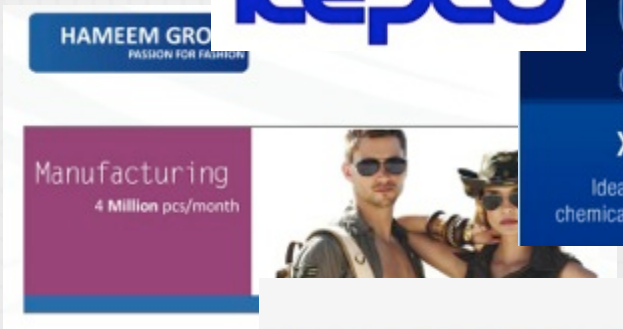
TSG-TAP Specification

A. Max Fingerprint Device: TCP/IP (400 Devices) / RS-485 (64 Devices)
B. Communication: RS-485 or TCP/IP
C. T&A Shift: 254 Types
D. MDB, MS SQL, Oracle DB Support

Min PC Specification

A. OS: Windows XP or Up
B. CPU: Pentium III 256MB or Up
C. Hard Disk: Minimum 100M or Up

Case Studies



Thank You !

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