

# SmartFace New Series



## 5" Facial Recognition Reader

### Design Background

Facial recognition is one kind of touchless biometric access technology. Due to its convenience usage, it is suggested to use Facial ONLY like lobby access. For high security application, an additional technology is highly recommended for multi-factor authentication. Based on privacy and security concerns, only facial characteristics are stored at the device. This facial reader also designed to support IP65.

### Description

- 

Store 20,000 facial characteristic templates.  
Facial Recognition speed <math>< 0.5s</math> & accuracy  $\geq 99.8\%$ .  
Can store up to 100K but accuracy will drop to 99%  
Facial Recognition distance is 0.3m ~ 1.5m.
- 

Liveness detection:  
Effectively prevent from photos and videos of non-liveness approach.
- 

Off-line management: management through Administration card or password.  
Setup menu: add/delete/modify facial information.  
Support Off-line modification synchronize back to facial database (via TCP/IP).
- 

Scramble keypad.
- 
  - Facial / Facial+Card / Facial+Pin / Card+Facial;
  - Card+Pin / +Fingerprint / Card only
  - "Face IN Card" (compare live facial characteristic with the template stored inside the user card).
- 

Store up to 20,000 off-line events.  
Facial picture will be captured and stored during any failed access.
- 

Indication of Facial Matched and Access status separately. \*\*
- 

Available with different technologies:

  - ◆ 125 KHz (low frequency)
  - ◆ Multi-Tech (Read UID of Mifare, Mifare+, DesFire, iCLASS, China CPU, Felica & China ID card)
  - ◆ Legic (optional)
  - ◆ Bluetooth (optional)
- 

Support IR light compensation.
- 

Support external card reader connection.  
Support relay output.
- 

Support search function (personal information, off-line events).
- 

Multiple interfaces and compatible with various controllers --- Wiegand & RS485 (OSDP).

**Model Number: X<sub>1</sub> X<sub>2</sub> X<sub>3</sub> N<sub>1</sub> H N<sub>3</sub> – N<sub>4</sub> N<sub>5</sub>**

Technologies		Appearance and Functions	
X <sub>1</sub> X <sub>2</sub> X <sub>3</sub>	TH = Multi-technologies + 125KHz BMT = Multi-technologies + Bluetooth BL = Bluetooth + LEGIC BTH = Bluetooth + Multi-technologies + 125KHz BH = Bluetooth + 125KHz NA = No reader module	N <sub>1</sub>	F = Facial only U = Facial + QR Code W = Facial +Fingerprint+ QR Code
		N <sub>3</sub>	2 = CSN/UID/ID Reading 3 = Sector Reading (Only High Frequency) 4 = Finger template store inside the card 5 = Finger template store inside the reader
		N <sub>4</sub>	9 = Pigtail with both Wiegand & OSDP
		N <sub>5</sub>	A = ReadSense C = Face++ (Default)

Model	Facial Reader (Barcode/Fingerprint optional)
<b>Functions</b>	
<b>Configuration Functions</b>	
Reading Technology	125KHz, ISO14443A and ISO15693
Card Format	Support different card formats
Access Modes	Facial / Facial + PIN / Facial + Card / PIN + Facial / Card + Facial / Card + PIN
Terminal Management	Setup Administration Card / Password
Reader Output	Wiegand & RS485 (OSDP)
Hardware Output	Relay output 12Vdc@1A; 2 <sup>nd</sup> Relay is optional
Communication	Ethernet Port (TCP/IP)
<b>Technical Specifications</b>	
RAM	DDR3 4G
Flash	16GB
Touch Screen	5 "LCD & capacitive touch screen, resolution : 720 x 1280
Light Compensation	Infra-red wave for IR camera
Recognition Distance	Facial Recognition distance is from 0.3m to 1.5 m
Camera	Dual camera : IR+RGB
Barcode Compatibility	QR Code / PDF417 / Data Matrix / UPC-A / UPCC-E / EAN-8 / EAN-13 / ISBN / Code 128 / GS1 128 / ISBT 128 / Code 39 / Code 93 / Code 11 / Interleaved 2 of 5 / Industrial 2 of 5 / Matrix 25 / Standard 25 / Codabar / MSI/MSI PLESSEY / GS1 DataBar ... etc.
Fingerprint	Suprema module / ISO19794-2 / ANSI-378 / 384 bytes template size / Store 25K templates
<b>Operation Specifications</b>	
Operating Voltage	10 - 15VDC
Operating Current	2A (max)
Operating Temperature	-20°C-55°C
Exterior Dimension	Facial: 191*106*30 mm/ Facial + QR Code or Fingerprint: 185*140*29 mm
Operating Humidity	10% - 90% ( non-condensate )