



IDTECK Co., Ltd.

5F Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea
Tel : 82-2-2659-0055 Fax : 82-2-2659-0086 www.idteck.com webmaster@idteck.com



Architect & Engineer Specification

FACE007SR Facial & Smart card Access Controller

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1 Introduction

The intent of this document is to describe the specification of FACE007SR facial recognition standalone access controller manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The FACE007SR facial recognition standalone access controller shall provide total control of access control for single door. With facial recognition and built-in 13.56MHz Mifare smart card reader, it shall dynamically control up to 10,000 users / 20,000 Events. Anti-pass back operation shall be supported through external reader port. Combined with Starwatch Dual Pro software, the Face007 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FACE007SR biometric reader shall measure 5.1" x 7" x 1.9" (130 x 187 x 54mm). FACE007SR shall arrive disassembled and contains following;
 - 3.1.1 A wall mounting plate
 - 3.1.2 The body that mounts to the wall mounting plate
- 3.2 The FACE007SR shall have a dark pearl gray body
- 3.3 The FACE007SR shall weight 600g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FACE007SR shall contain 32bit DSP and 16bit/8bit Microprocessor
- 4.2 The FACE007SR shall contain memory as following.
 - 4.2.1 Face Module shall have following memory
 - 4.2.1.1 Program memory of 32KByte EPROM
 - 4.2.1.2 Data memory of 64MByte Flash memory
 - 4.2.2 Controller part of FACE007SR shall have following memory
 - 4.2.2.1 Program memory of 256Byte Flash.
 - 4.2.2.2 Data memory of 512KByte SRAM.
- 4.3 The FACE007SR shall contain 122 x 32 pixel LCD.
- 4.4 The FACE007SR shall have a 16 key numeric Keypad.
- 4.5 The FACE007SR shall indicate its status through red, green, yellow LEDs and rainbow LED.
- 4.6 The FACE007SR shall have piezo buzzer for the beeper.
- 4.7 The FACE007SR shall contain internal speaker for voice command.
- 4.8 Dual temper switch shall be built in to the FACE007SR to provide safe operation.
- 4.9 The FACE007SR standalone smart card reader shall operate on 12V. Max 1A.

5 Face recognition Specification

- 5.1 The FACE007SR shall include built in facial recognition module.
- 5.2 10,000 facial templates shall be stored in dual face templates for accurate recognition.
- 5.3 Dual face template size shall be 240bytes.
- 5.4 The FACE007SR shall include Built-in CCD camera with 230,000 pixels.

6 RFID reader Specification

- 6.1 The FACE007SR shall include built-in 13.56MHz RF reader.
- 6.2 The FACE007SR shall provide 1 external reader port for anti-pass back function.
- 6.3 Reading Range of Face007 shall be 4" (10cm).
- 6.4 ISO14443 type A Mifare smart card shall be supported.



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7 Communication Specification

- 7.1 External reader port included in FACE007SR shall supports 34 bit Wiegand communication.
- 7.2 The FACE007SR shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FACE007SR shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.
- 7.4 Input and Output as following shall be provided by the Face007.
 - 7.4.1 The FACE007SR shall have 4 input ports (isolation).
 - 7.4.2 The FACE007SR shall have 4 output ports as following, 4 form-C relay (Com, NO, NC) Rating 2A.
 - 7.4.3 The FACE007SR shall have 2 video output (NTSC, PAL) with voice output.

8 Environmental Specification

- 8.1 Operating Temperature
 - 8.1.1 The FACE007SR shall operate temperature between 0 ° C ~ +40 ° C.
- 8.2 Operating Humidity
 - 8.2.1 The FACE007SR shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The FACE007SR shall have following certification
 - 9.1.1 FCC certification
 - 9.1.2 UL certification
 - 9.1.3 CE certification
 - 9.1.4 MIC certification

Technical Support Contact Information:

IDTECK

5F, Ace Techno Tower B/D, 684-1 Deungchon-Dong
Gangseo-Gu, Seoul, 157-030
Republic of Korea
Hours: 0900 ~ 1900
Tel: 82-2-2659-0055
Fax: 82-2-2659-0086
E-mail: webmaster@idteck.com
Web: www.idteck.com

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