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Architect & Engineer Specification

FACE006 Facial & Proximity Reader

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1 Introduction

The intent of this document is to describe the specification of FACE006 facial recognition & proximity reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

FACE006 Face & PIN proximity Reader shall provide easy and versatile solution to access control. With facial recognition and built-in 125KHz proximity reader, it shall dynamically control up to 10,000 users. Combined with iTDC or iCON100 controller, the FACE006 shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FACE006 biometric reader shall measure 5.1" x 7" x 1.9" (130 x 187 x 54mm). FACE006 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 FACE006 shall have a dark pearl gray body
- 3.3 The FACE006 shall weight 600g (Packaged weight for shipping shall be 700g)

4 Electrical Specification

- 4.1 The FACE006 shall contain 32bit DSP and 16bit/8bit Microprocessor
- 4.2 The FACE006 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 FACE006 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 FACE006 shall contain 122 x 32 pixel LCD.
- 4.4 The FACE006 shall have a 16 key numeric Keypad.
- 4.5 The FACE006 shall indicate its status through red, green, yellow LEDs and rainbow LED.
- 4.6 The FACE006 shall have piezo buzzer for the beeper.
- 4.7 The FACE006 shall contain internal speaker for voice command.
- 4.8 Dual temper switch shall be built in to the FACE006 to provide safe operation.
- 4.9 The FACE006 facial recognition reader shall operate on 12V. Max 1A.

5 Face recognition Specification

- 5.1 The FACE006 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 FACE006 shall include Built-in CCD camera with 230,000 pixels.

6 RFID reader Specification

- 6.1 The FACE006 shall include built-in 125KHz RF reader.
- 6.2 Reading Range of FACE006 shall vary depending on the types of the card that are used. The FACE006 shall accept following proximity cards with stated reading range.
 - 6.2.1 Passive cards that are stated below shall operate with the FACE006 and shall have declared reading range.



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- 6.2.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
- 6.2.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
- 6.2.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
- 6.2.1.4 IMC125 mini proximity Sticker Tag shall have 2 inch (5 Cm) reading range.
- 6.2.2 Active cards that are stated below shall operate with the FACE006 and shall have declared reading range.
 - 6.2.2.1 IDA 200 active card shall have 15 inch (40 Cm) reading range.

7 Communication Specification

- 7.1 FACE006 shall supports 26 bit Wiegand output to the controller.
- 7.2 The FACE006 shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FACE006 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 FACE006.
 - 7.4.1 26bit Wiegand and ABA track II shall be supported by FACE006
 - 7.4.2 The FACE006 shall have 2 video output (NTSC, PAL) with voice output.

8 Environmental Specification

- 8.1 Operating Temperature
 - 8.1.1 The FACE006 shall operate temperature between 0 ° C ~ +40°C.
- 8.2 Operating Humidity
 - 8.2.1 The FACE006 shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

- 9.1 The FACE006 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:

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