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## *Architect & Engineer Specification*

# **FACE007 Facial & Proximity Access Controller**

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## **1 Introduction**

The intent of this document is to describe the specification of FACE007 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 FACE007 facial recognition standalone access controller shall provide total control of access control for single door. With facial recognition and built-in 125KHz proximity 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 FACE007 biometric reader shall measure 5.1" x 7" x 1.9" (130 x 187 x 54mm). FACE007 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 FACE007 shall have a dark pearl gray body
- 3.3 The FACE007 shall weight 600g (Packaged weight for shipping shall be 700g)

## **4 Electrical Specification**

- 4.1 The FACE007 shall contain 32bit DSP and 16bit/8bit Microprocessor
- 4.2 The FACE007 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 FACE007 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 FACE007 shall contain 122 x 32 pixel LCD.
- 4.4 The FACE007 shall have a 16 key numeric Keypad.
- 4.5 The FACE007 shall indicate its status through red, green, yellow LEDs and rainbow LED.
- 4.6 The FACE007 shall have piezo buzzer for the beeper.
- 4.7 The FACE007 shall contain internal speaker for voice command.
- 4.8 Dual temper switch shall be built in to the FACE007 to provide safe operation.
- 4.9 The FACE007 standalone proximity reader shall operate on 12V. Max 1A.

## **5 Face recognition Specification**

- 5.1 The FACE007 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 FACE007 shall include Built-in CCD camera with 230,000 pixels.

## **6 RFID reader Specification**

- 6.1 The FACE007 shall include built-in 125KHz RF reader.
- 6.2 The FACE007 shall provide 1 external reader port for anti-pass back function.
- 6.3 Reading Range of FACE007 shall vary depending on the types of the card that are used. The FACE007 shall accept following proximity cards with stated reading range.



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- 6.3.1 Passive cards that are stated below shall operate with the FACE007 and shall have declared reading range.
  - 6.3.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
  - 6.3.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
  - 6.3.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
  - 6.3.1.4 IMC125 mini proximity Sticker Tag shall have 2 inch (5 Cm) reading range.
- 6.3.2 Active cards that are stated below shall operate with the FACE007 and shall have declared reading range.
  - 6.3.2.1 IDA 200 active card shall have 15 inch (40 Cm) reading range.

## **7 Communication Specification**

- 7.1 External reader port included in FACE007 shall supports 26 bit Wiegand communication.
- 7.2 The FACE007 shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FACE007 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 FACE007 shall have 4 input ports (isolation).
  - 7.4.2 The FACE007 shall have 4 output ports as following, 4 form-C relay (Com, NO, NC) Rating 2A.
  - 7.4.3 The FACE007 shall have 2 video output (NTSC, PAL) with voice output.

## **8 Environmental Specification**

- 8.1 Operating Temperature
  - 8.1.1 The FACE007 shall operate temperature between 0 ° C ~ +40 ° C.
- 8.2 Operating Humidity
  - 8.2.1 The FACE007 shall operate humidity between 10% ~ 90% RH(Non-condensing)

## **9 Certification and Approvals**

- 9.1 The FACE007 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**

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