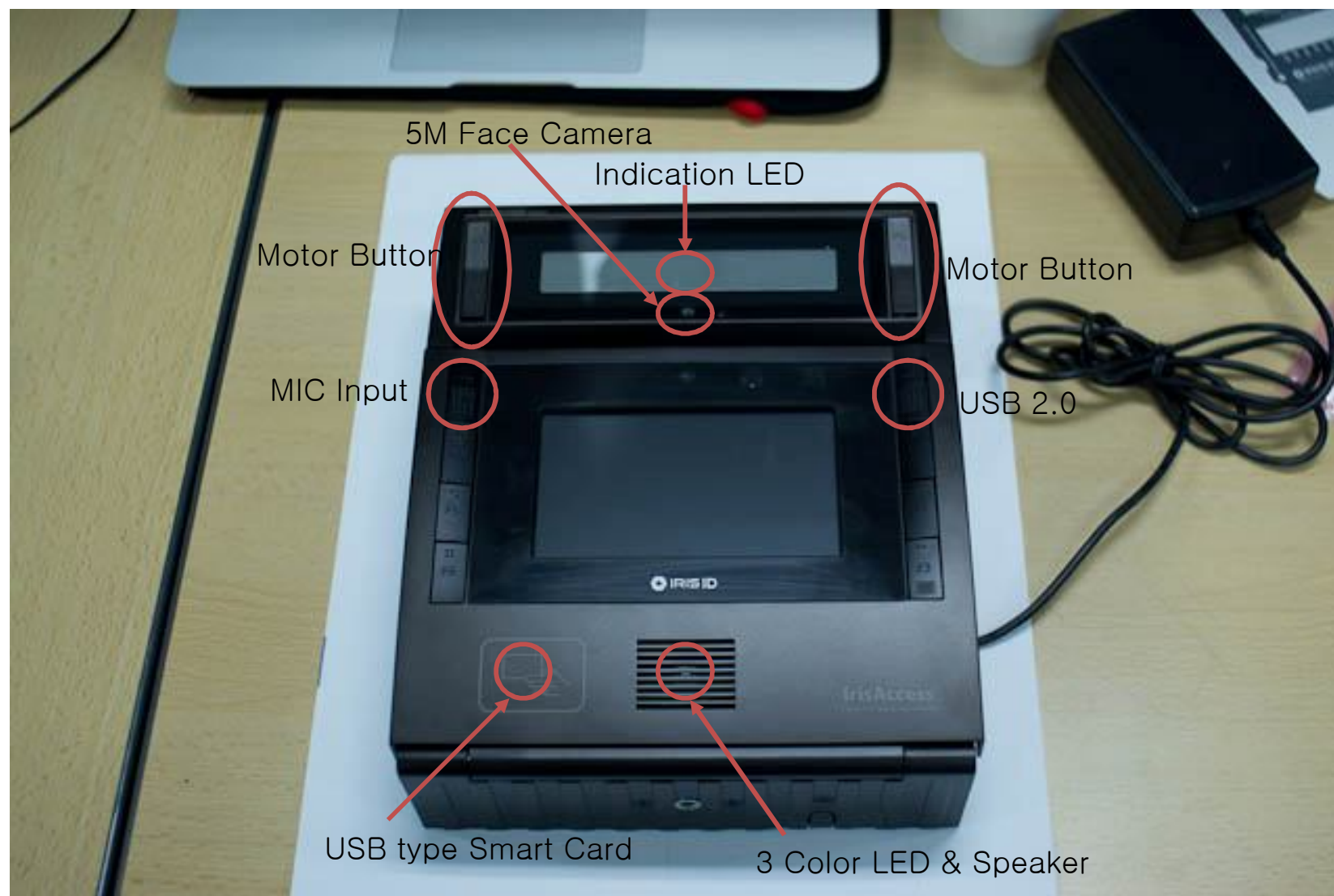# iCAM 7100 Quick User's Manual

1. Summary

- The Device called as iCAM 7100, is a kind of access controlling and time attendance device using iris recognition with DC power.

- This Device can support smart card and Serial and Wiegand input and output for external existing system.

- It is designed for enrollment and recognition by capturing user's face and iris in stand-alone mode.

- It has backward compatibility with previous model and can support time attendance market with RTC function

2. Functionality

- The face camera has AF (auto focus) function and the resolution is about 5Mpixel

- The adjustable motor is adopted for various user's height with left and right button.

- The iris cameras use multiple mono image sensor.

- With LCD display in front panel, user can enroll user's face by oneself. The LCD can display recognition result and user's information.

- The LED in cold mirror display user's distance. The green and orange mean in range and out of range alternatively.

- After finishing recognition, the result will be showed through voice and 3 color LED in center bottom place.

5M Face Camera

Indication LED

Motor Button

Motor Button

MIC Input

USB 2.0

USB type Smart Card

3 Color LED & Speaker

# 3. Specification(Main Part)

| Item | Specification |
|---|---|
| Dimension | 178 x 213.4 x 76.7 mm |
| Weight | 1.6Kg |
| CPU | Samsung S3C6410 |
| Memory | 256MB(m-DDR) |
| Storage | 1GB(On-board) |
| | 4GB(Up to 16GB SD) |
| Iris Sensor | 752 x 480 (B/W WVGA) |
| Face Sensor | 5M with AF |
| Display | 4.3" LCD |
| Operating Range | 33±2cm |
| Power Input | Allowable Operation Voltage: 12 V DC<br>During Operation Voltage: 12 ~24 V DC |
| Operation Temperature | -20~55℃ |
| Operating Humidity | 0~90% R.H |
| Button | Power (Internal) |
| | Motor Tilt(On both sides), 6 Function Keys |
| Connectivity | 10/100Mbps LAN, USB 2.0, Wiegand, RS232, RS422, Relay |
| Sound In/Out | Mono/external speaker Output, Mono Input |
| RTC | CR2032(Replaceable) |
| Motor | 12V DC |

## 4. Specification(USB typed RF)

| Item | Specification |
|---|---|
| Dimension | 26 x 94 x 15mm |
| Weight | 17g |
| Power Supply | Bus Power |
| USB Speed | USB 2.0 Full Speed |
| Standard | ISO7816 |
| Power Consumption | 60mA |
| MTBF | 500K Hour |
| LED | Blue |
| Card interface Speed | 420Kbps |
| Card clock Frequncy | Up to 8MHz |
| Supporting Card type | iClass,Mifare,Desfire |
| Operation Temperature | -20~55℃ |
| Operating Humidity | 0~90% R.H |

① Un-plugged screws on both sides as shown below

 

② Pull the front door
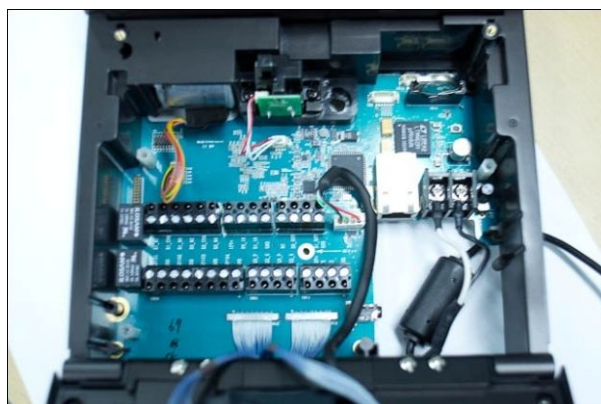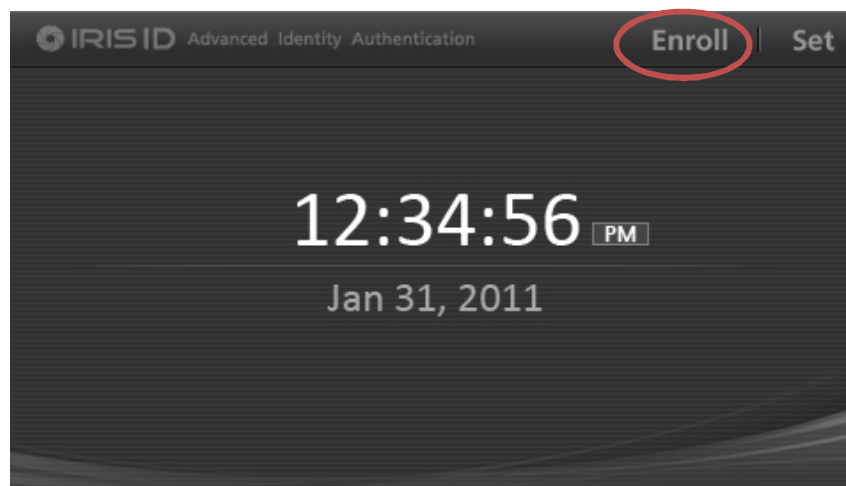


③ Power on after connecting power and LAN
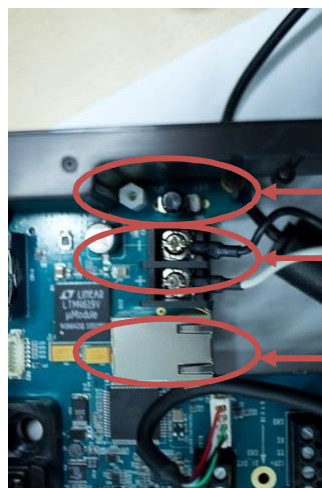


Power Switch

Power Input(12~24V DC)

LAN

④ After power on, please check message in LCD as below and press "Enroll".



⑤ Enroll face image. Touch user's image in the LCD for capturing, then assign user's ID automatically. Press "Next" for enrolling iris.
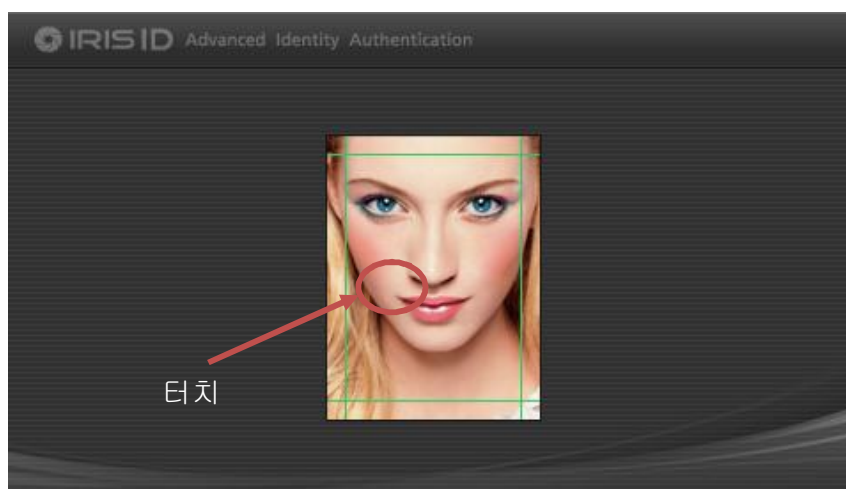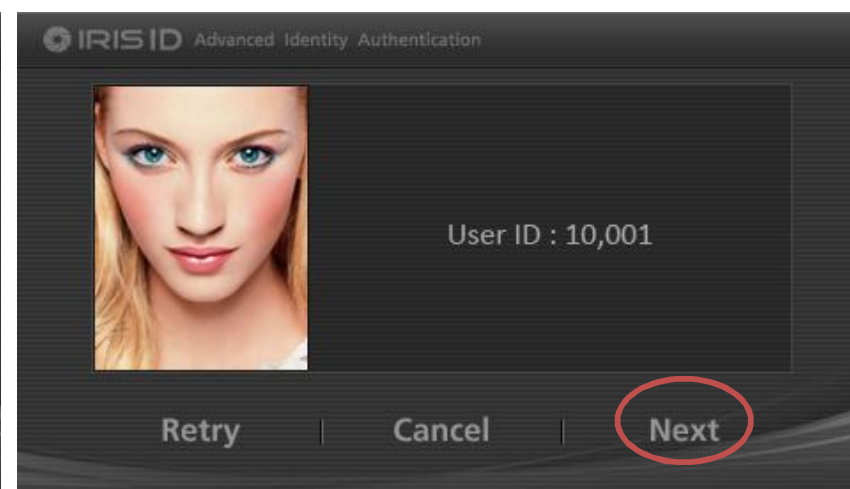


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Image 1.

User ID : 10,001

Retry | Cancel | Next

Image 2.

⑥ Enroll user's iris. When starting enrollment, the first image will be displayed. Adjusting user's iris with cold mirror. If user is in range , green will be shown. Otherwise, orange will be shown. Stay in range for a second, the second image will appear like second image. Press "Save" for finishing enrollment
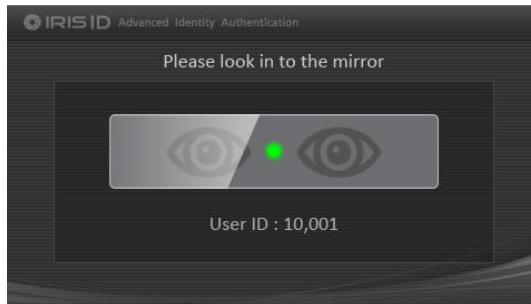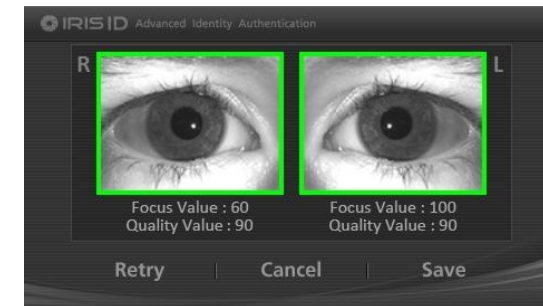


Image1. Starting enrollment

Out of range

In range



Image2. Enrollment complete

⑦ After finishing enrollment, the device will run in the continuous recognition mode. The result will be displayed either failure or success



Image 1. Recognition fail



Image 2. Recognition success

6.    Warranty Period
 The period of device warranty is 2 years.


7.    A/S Policy and contact point
 If there is any problem without customer's fault, the repair fee is free within 2 years.
Contact Point: 032-820-5300(Factory)


8.    FCC notice to users and product statements
 This device complies with part15 of the FCC Rules. Operation is subject to the following two conditions
 (1)This device may not cause harmful interference, and
 (2)This device must accept any interference received,
including interference that may  not cause undesired operation.

 NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 Change or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

9.    Other notices.
 Installation location is indoors, cable lengths exceeding 10 meters are available.