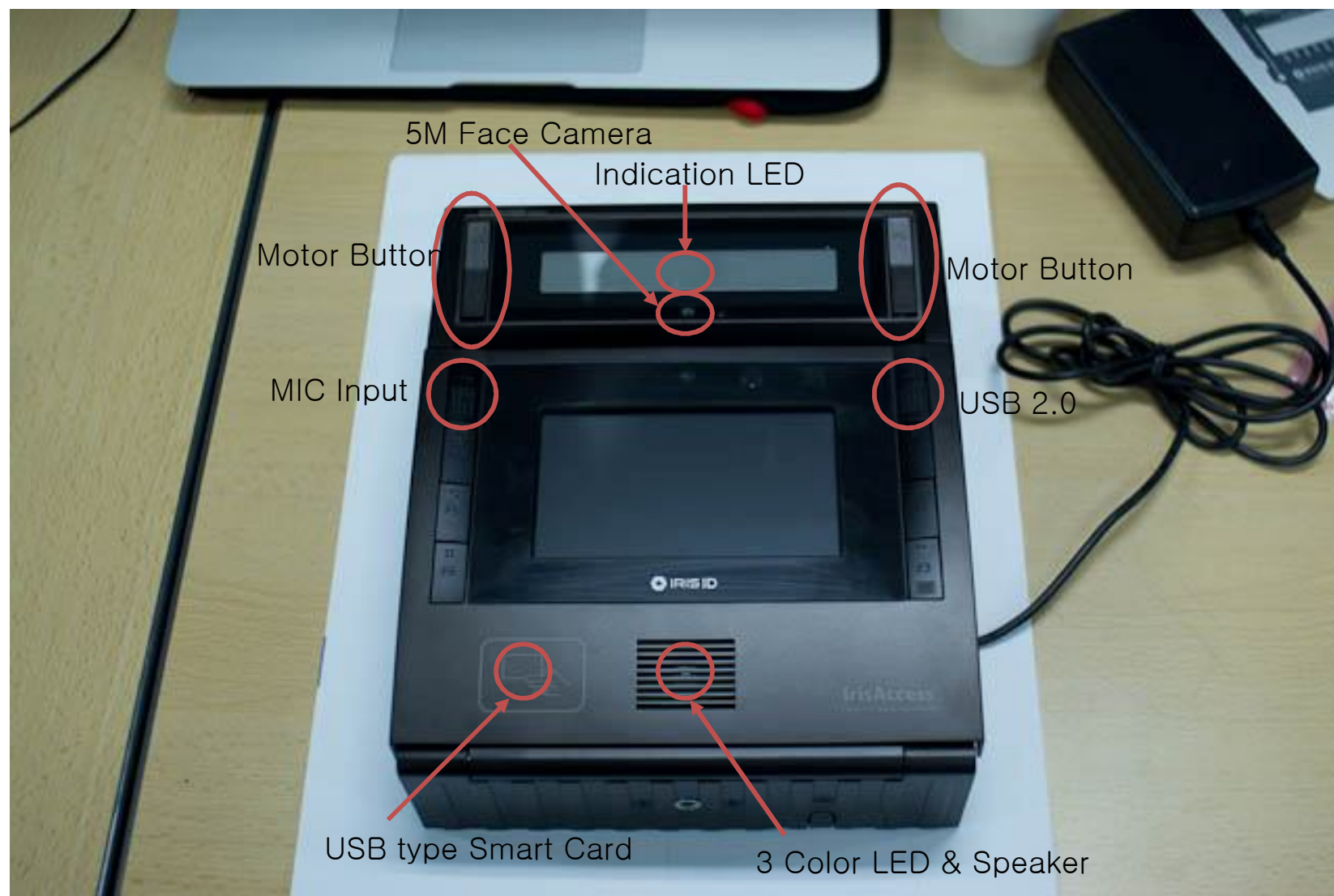


1. Summary

- 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.



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 During Operation Voltage: 12 ~24 V DC
Operation Temperature	-20~55°C
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)

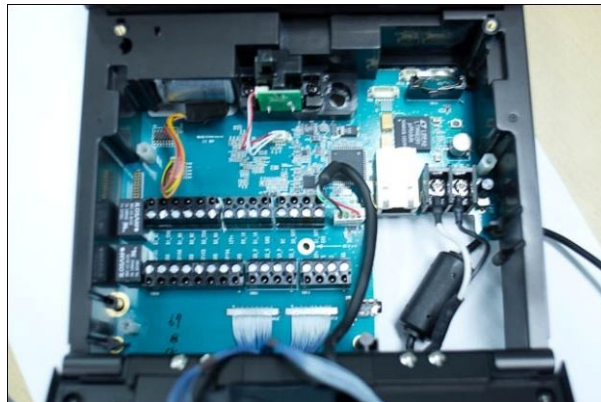
Item	Specification
Dimension	26 x 94 x 15mm
Weight	17g
Power Supply	Bus Power
USB Speed	USB 2.0 Full Speed
Standard	ISO7816
Power Consumption	60mA
MTBF	500K Hour
LED	Blue
Card interface Speed	420Kbps
Card clock Frequency	Up to 8MHz
Supporting Card type	iClass,Mifare,Desfire
Operation Temperature	-20~55°C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

5. Operation Procedures

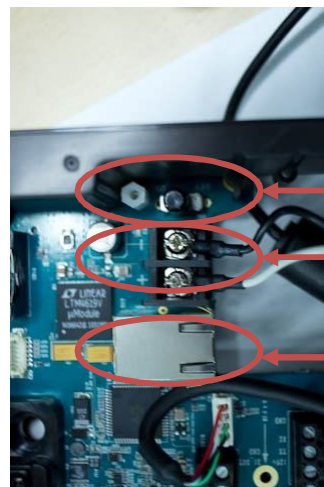
- ① Un-plugged screws on both sides as shown below



- 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.

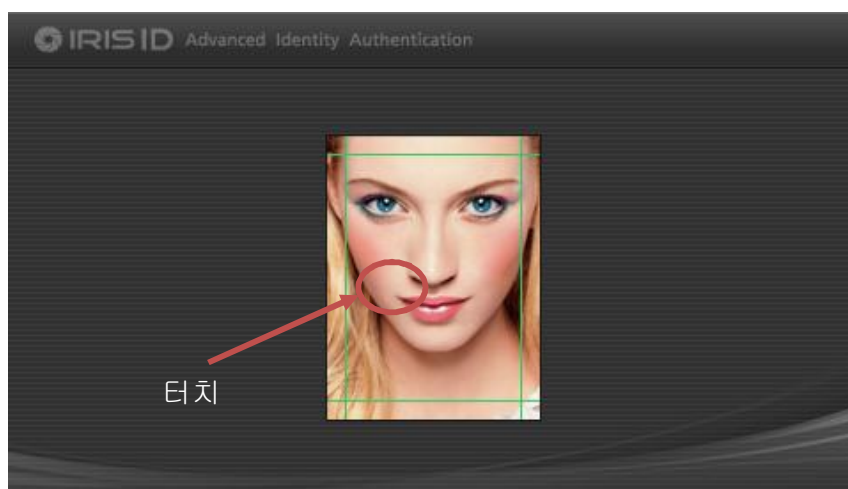


Image 1.

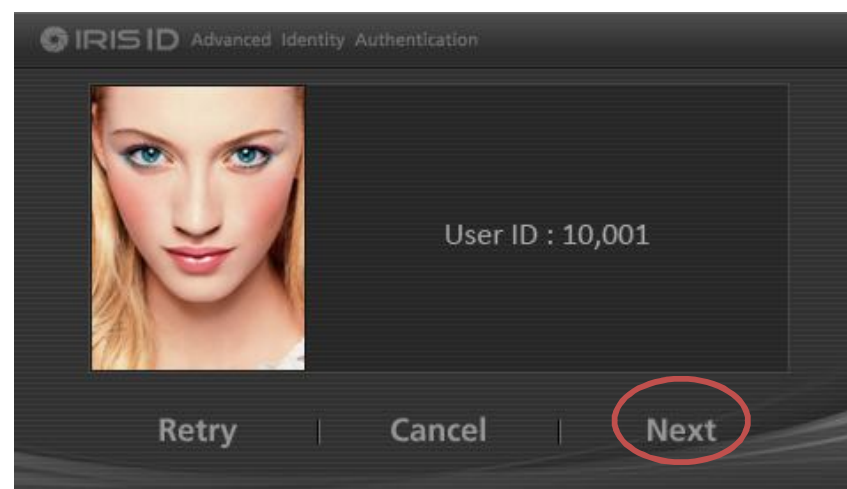


Image 2.

- 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

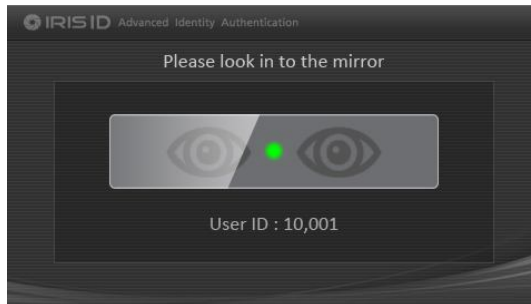


Image1. Starting enrollment

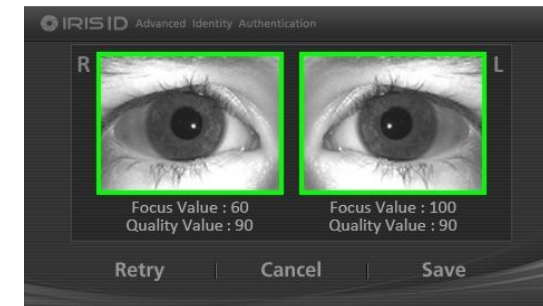


Image2. Enrollment complete

- 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.