

BR600C-E

BR600C-E can be used as standalone fingerprint matcher. Under the control of ISAS2000 via USB interface, it can capture as fingerprint image, extract the minutiae (fingerprint characteristics) and then store to its internal memory. The stored fingerprint can be used to match with a freshly captured fingerprint and only the matching result will be sent to PC. So BR600C-E can do "Match On Device". Its internal memory can store up 100 fingerprints.

BR600C-E can handle ISO14443A compatible MiFare smart card and has all the necessary card function such as format card, issue card, read card, write card, copy card, erase card etc. So it can be used as a standalone USB MiFare card Reader/Writer.

With a combination of fingerprint "Match On Device" and ISO14443A MiFare card Reader/Writer, is perfect for true two-factor authentications (what you own and what you carry). Enrolled fingerprint can be stored to MiFare card. At the time of authentication :

1. User shows the MiFare card and BR600C-E read the fingerprint in card.
2. Then puts finger and BR600C-E captures the fingerprint image.
3. BR600C-E matches the freshly captured fingerprint with the fingerprint read from the MiFare card.
4. The matching result is sent to PC.

It is not necessary for both ISAS2000 and BR600C-E to store the fingerprint for the authentication. This eliminates privacy issue arose from using fingerprint for authentication. IBS provides full SDK to customers to make such two-factor authentication application.

Applications :

- Remote Locations access with Fingerprint template card
- Physical assets tagging
- Physical ID Card match finger with card owner
- Prepaid Card with physical authentication
- High Security/High Value Inventory control verify authorized user and immediate stock status update



Specifications

General

USB2.0 compatible interface, plug and play device
with a 2 meters standard USB cable
size : 50 x 73 x 35mm
Weight : 200gram
Operating Temperature : -10 to +55 Degree Celcius

Fingerprint Matcher

Fingerprint scanning window size is 60x24mm
Image Resolution is 480x320px, 500DPI
Raw fingerprint image file size is 150K byte
With Live Finger Detection (LFD) feature
Can store a maximum of 100 fingerprint

Mifare Card Reader/Writer

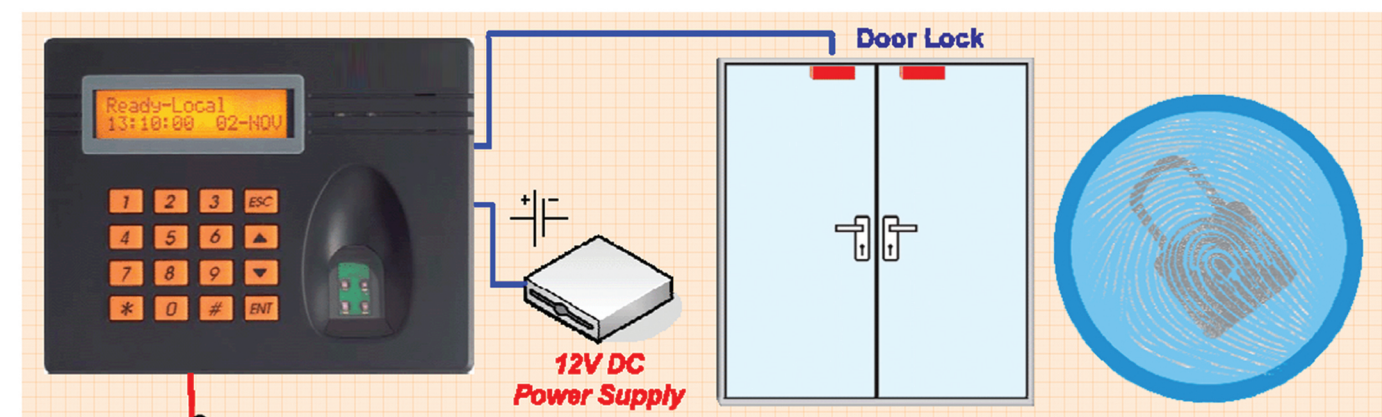
Compliant with ISO14443A
Carrier Frequency : 13.56MHz
Support standard MiFare key encryption
Support both 1K and 4K MiFare smart card
Card sensing range : 15mm
card read/write time : < 0.5sec (also depends on the data size)
Two colors LED for MiFare card reader/writer status indication

System Requirements

MS Windows 2000, XP, Vista and Win7
Pentium Dual Core or higher Pentium Processor
1GB RAM minimum
USB port and CD-ROM drive

For Further Information, please contact

BIOMETRIC ACCESS CONTROL SYSTEM



Features

Two access control methods to meet different application needs:

- Fingerprint only(1-to-N matching)
- ID+ Fingerprint(1-to-1 matching)

Each user can register up to 3 fingerprints

User/Finger administration, add, delete, edit, etc, can be done in both BR600 and ISAS2000.

User/Finger database can be synchronized between BR600 and ISAS2000 via LAN/Internet.

Can operate in local mode or network mode

Support Wiegand interface with 5 selectable output format.

Support Remote Relay Unit.

There are black and silver colour enclosure for customer to select.

Local mode

Each BR600 can store up to 500 fingerprints.

Fingerprint recognition is done on BR600 (input finger is matched to database stored in BR600).

Access log is stored locally. Each BR600 can store up to 32,000 access log records.

Access Log in BR600 can be sent to ISAS2000 via LAN/Internet and then exported as Excel/text format.

Network mode

Unlimited number of fingerprints can be stored in ISAS2000

Fingerprint recognition is done on ISAS

Access log is stored in ISAS which can store unlimited number of access log records.

Access Log in ISAS can be exported as Excel or text format

A maximum of 99 BR600's can be connected to ISAS to form a cluster for large-scale access control application

If LAN/Internet connection is accidentally broken, all BR600's will switch to operate in local mode automatically

BR600

With high resolution optical system & latest biometric technology, BR600 provides enterprises a secured but convenient access and attendance control solution at lower cost. It is very similar to BR600C but with less function.

BR600 can operate in both Local and Network mode. In network mode, fingerprints can be stored and recognized in the FAS which can handle unlimited number of fingerprints. In local mode, each BR600 can store up to 500 fingerprints itself and can be used as a standalone access and attendance control device.



BR600C

With high resolution optical system and latest biometric technology, BR600C provides enterprises a secured but convenient access and attendance control solution. It supports MiFare card (a contactless smart card technology developed by Philips) so that any combination of fingerprint, Mirafe card and PIN can be used for access and attendance control. If necessary, fingerprint can also be stored in MiFare card to eliminate any possible privacy issue.

In network mode, fingerprints can be stored and recognized in the ISAS2000 which can handle unlimited number of fingerprints. In local mode, each BR600C can store up to 3000 fingerprints itself and can be used as a standalone access and attendance control device.

Features

BR600C supports Live Finger Detection (LFD). If this function is activated, only live fingers can be used to access and BR600C will not capture the image from fake fingers. So fake fingers made from silicone and rubber cant be used to access.

With MiFare card reader and writer. That is, all BR600C can be used to issue MiFare card for users.

6 access control methods to meet different application needs :

- Fingerprint only (1-to-N Matching)
- ID + Fingerprint (1-to-1 Matching)
- MiFare card + Fingerprint (1-to-1 matching)
- MiFare card + Fingerprint stored on card (1-to-1 Matching)
- MiFare card + PIN
- Mifare card only

Each user can register up to 3 fingerprints

User / Finger administration, add, delete, edit, etc can be done in both BR600C and ISAS2000

User / Finger database can be synchronized between BR600C and ISAS2000 via LAN

Can Operate in local mode or network mode

Support Wiegand interface with 5 selectable output format

Local mode

Each BR600C can store up to 3000 fingerprints.

Fingerprint recognition is done by BR600C (input finger is matched to database stored in BR600). If using the MiFare card without fingerprint, the user authentication is also done locally.

Access log is stored locally. Each BR600C can store up to 1 million access log records.

Access Log in BR600C can be sent to ISAS2000 via LAN and then exported as Excel or text format.

Network mode

Unlimited no. of fingerprints can be stored in ISAS2000.

Fingerprints recognition is done on ISAS2000 (input finger is matched to database in ISAS2000)

If using the MiFare card without fingerprint, the user authentication is also done in ISAS2000.

Access log is stored in ISAS2000 can be exported as Excel or Text Format.

A maximum of 99 BR600's can be connected to ISAS2000 to form a cluster for large-scale access control application.

if LAN connection is accidentally broken, all BR600C will switch to operate in local mode automatically.

BR600 / BR600C SPECIFICATIONS

- ☉ Fingerprint image resolution : 320x480px, 500DPI.
- ☉ Light Source : 4 Infra Red LEDs.
- ☉ Finger scanning window size : 16mm x 24mm.
- ☉ Fingerprint recognition accuracy : FAR-10⁻⁵, FRR-10⁻²
- ☉ 122x32 dot matrix LCD with backlight that supports English and Chinese Character
- ☉ User input & prompt : 16keys keypad with backlight, Buzzer, red and green LED.
- ☉ MiFare card sensing range : 30mm
- ☉ Interface to PC : Ethernet
- ☉ With lithium battery powered Real Time Clock
- ☉ Door Control : 1 Door Strike, 1 Door Switch and 12VDC / 1.5A
- ☉ Operating temperature : -10 + 55°C
- ☉ Dimension : 140W x 110H x 41.5D
- ☉ Enclosure : 3mm thickness ABS



BR600-E

BR600-E Fingerprint Scanner uses advanced CMOS sensor technology and precise optical system to deliver high quality fingerprint image. It can capture an almost un-distorted raw fingerprint image into ISAS2000 in 100ms. So it is good for any fingerprint recognition application.

Its finger scanning window is a crown glass with a thickness of 14mm. So it is much more reliable and robust compared to any semiconductor type fingerprint sensor.

The finger is illuminated by 4 infra-red LEDs during scanning and the light intensity is automatically adjusted according to scanning fingerprint's characteristics (wet, dry, blurred, etc) to optimize the quality of the captured fingerprint image.

Special electronic circuit is built into BR600-E to do Live Finger Detection (LFD). That is, with appropriate software in ISAS2000, user can select this LFD feature so that only live finger's fingerprint will be scanned into ISAS2000. Fake fingers made from silicone rubber, play-doh, etc, will be rejected.

Specifications

Fingerprint scanning window size is 16x24mm
Image resolution is 480x320 pixel, 500 DPI
Raw fingerprint image file size is 150K byte
With Live Finger Detection (LFD) feature
USB 2.0 compatible interface, plug and play device.
WHQL approved for Vista 32&64 bit.
With a 2M standard USB cable
Small size, 45 x 63 x 26 mm
Light weight, 120 gram
Operation temperature: -10 to +55 C

Electrical Characteristics

Light source: Infrared LED
Supply voltage: DC 4.5-5.5V via USB port
Power consumption:
- Active<500mW(during finger scanning),
- Standby<200mW,
- sleep mode<5mW
ESD contact – 8KV no permanent damage
Air discharge - 16KV no permanent damage