UBI - Universal Biometric Interface Manual

SEQUIAM
BIOMETRICS

UNDERSTANDING BIOMETRICS

Biometrics are methods of authenticating the identity of person based on physiological or behavioral characteristics. Biometric fingerprint authentication refers to technology that measure and analyzes human physical characteristics for identification and authentication purposes.

Everyone is known to have their own unique individual fingerprints. The individuality of each fingerprint can be determined by the pattern of ridges and furrows on the surface of the finger as well as by the minutiae points. Minutiae points are local ridge characteristics that occur at either a ridge bifurcation or a ridge ending. Sequiam's leading edge engineering group has developed its patented biometric technology to read and match fingerprints with unmatched speed with precision accuracy.

UBI
Universal Biometric Interface

The Universal Biometric Interface (UBI)™ is an OEM interface that provides you with an inexpensive, high quality, accurate biometric technology system that integrates into most hardware products easily. The UBI system can be modified, customized, and made to order for a wide range of applications.

Warning: This unit does not have a backup key, card reader, or PIN access, it is only accessible by fingerprint.

Box Contents: Shipped with your UBI are the following items:

(1) UBI (Universal Biometric Interface)
(1) Instruction Manual
(-) Power Adapter (optional)

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GETTING STARTED

1. Plug the OEM into the wall with the optional power adaptor.

2. When no one is enrolled, you can touch the sensor and the OEM will display "No users enrolled, opening" and the relay will be activated for 3 seconds.

ENROLLING NEW USERS

1. To Enroll the first User

    a. Select the Admin from the main menu and press Enter. (Figure A)
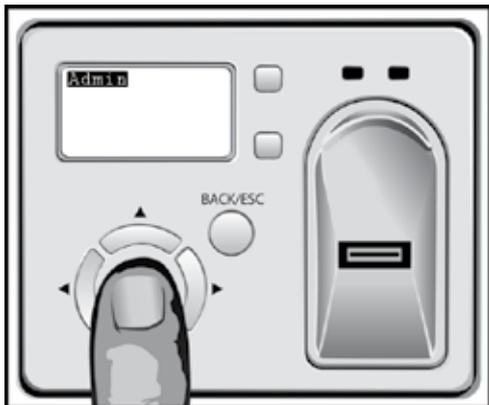
Figure A

b. Select Enroll and press Enter as shown in Figure B.
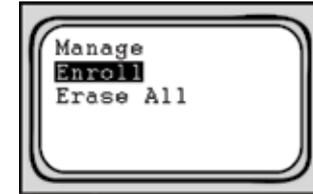
Figure B

c. The OEM kit will then prompt you to swipe your finger three times by displaying "Enrolling 1 of 3" on the screen.

d. Place your finger in the finger guide (any finger will work), with the first joint from the tip of your finger over the biometric sensor.

e. Make sure you have good, flat contact with the sensor. Begin to swipe your finger from Position 1 to Position 2 (indicated in Figure C below), taking about 1 second to complete the swipe. Try to get your entire fingerprint to cross the sensor.
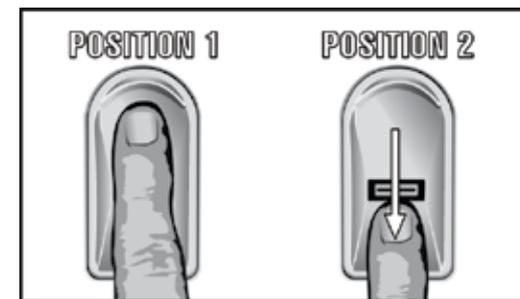
Figure C

f. After the first scan is complete, your fingerprint will be displayed on the LCD as shown in Figure D.

Figure D

g. The screen will then display "Enrolling 2 of 3" indicating the scanner is ready for the second swipe, repeat Step e.

Note: Please try and be consistent with your swipes.

h. Finally the OEM will prompt you to do a final swipe by displaying "Enrolling 3 of 3".

i. After the third enroll scan, if the green LED stays on, the LCD screen on the unit will then say "Captured Saved User 1", this will automatically give User 1 admin privileges.

Note: If the red LED turns on, the enroll process failed due to bad scans and you must repeat the process again.

j. Press the BACK/ESC button to exit out of the admin menu. Select "Admin" and proceed to swipe your finger to test your enrollment; the relay located on the back of the unit will close for 3 seconds.

NOTE: Please try and swipe your finger the same way you enrolled to ensure a successful match.

NOTE: It is recommended that the administrator enroll an additional fingerprint (preferably from the other hand) as an admin user as well. This will ensure admin access in the event of injury to the User 1 admin fingerprint.

2. To enroll more than one user

a. Press the Quick Enroll button shown in Figure E, this will prompt the admin to swipe his/her finger to verify admin rights before granting access.

Figure E

b. Once verified the unit will display "Enrolling 1 of 3" then have the new user follow the enrollment steps 1d - 1j.

ADMINISTRATION FUNCTIONS

1. To name or rename a user, select Admin from the main menu, swipe finger to verify admin privileges (if enrolled) and select Manage.

a. Select the User # to rename then select Rename.

b. Press the left arrow ◀ to erase the User # text, use up ▲ and down ▼ to select a letter, and the right arrow ▶ to move to the next space.

c. Press Enter when you have the correct name entered, it will then ask you to verify the name change, press Enter if it is correct.

NOTE: The user # corresponds to the order the users enrolled

2. To give a user administrator rights or take them away, select Admin, then swipe finger to verify admin privileges and select Manage.

a. Scroll to the user you wish to assign admin privileges to, press Enter, then select Make Admin. A star will then appear next to the users name indicating they have administator privileges.

b. To revoke administrator rights,Scroll to the user you wish to assign admin privileges to, press Enter, then select Revoke Admin, this will revoke the admin rights of the user selected and there will no longer be a star next to that user name.

3. To Disable or Enable a user, select Admin, swipe finger to verify admin privileges and select Manage.

a. Scroll to the user you wish to disable, press Enter and select Disable. A dash "-" will appear next to the users name, indicating that user has been disabled.
b. To enable a user, scroll to the user you wish to disable, press Enter and select Enable. There will no longer be a dash "-" next to that user's name.

4. To Delete a user, select Admin, swipe finger to verify admin privileges and select Manage.

a. Select the user to be removed, press Enter, and select Delete. The user is now deleted.

ACCESSING THE UNIT

1. To gain access to the UBI:

a. Place your finger over the sensor with the tip of your finger at the top of the finger guide as shown in Figure C (on page 2).

b. Make sure you have good, flat contact with the sensor. As soon as the green light turns on, begin to swipe your finger from Position 1 to Position 2 (indicated in Figure C on page 2), taking 1 to 2 seconds to complete the swipe. Try to get your entire fingerprint to cross the sensor.

c. If the UBI detects a match the unit will then activate.

NOTE: If the unit does not detect a match, the red light will flash indicating that you need to swipe your finger again. Please try to access the unit by swiping your finger the same way you originally enrolled to ensure a successful authentication.

TERMINAL BLOCK CONNECTIONS

SUPPORT

3.3V

R35

SIG_GND_TB

10

VWALL

VBATT

3.3V2

CON7
J8

(5) RS485 — 1
(5) RS485~ — 2
— 3
— 4
(5) TX_RS232 — 5
(5) RX_RS232 — 6
(2) RELAY_COM — 7
(2) RELAY_R_O

— 1
(2) RELAY_R_C — 2
— 3
— 4
— 5
— 6
— 7

J9
CON7
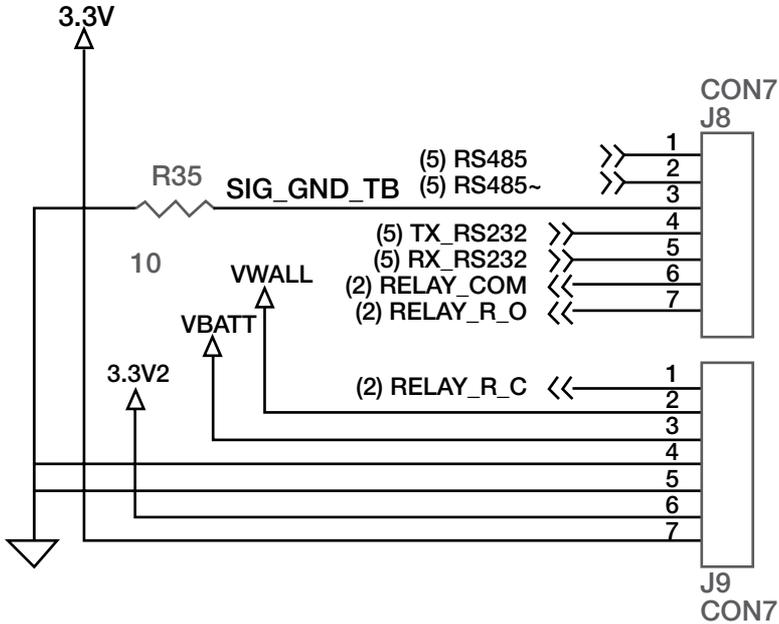
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For more great biometric products please visit
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