BIOVAULT 2.0
Manual

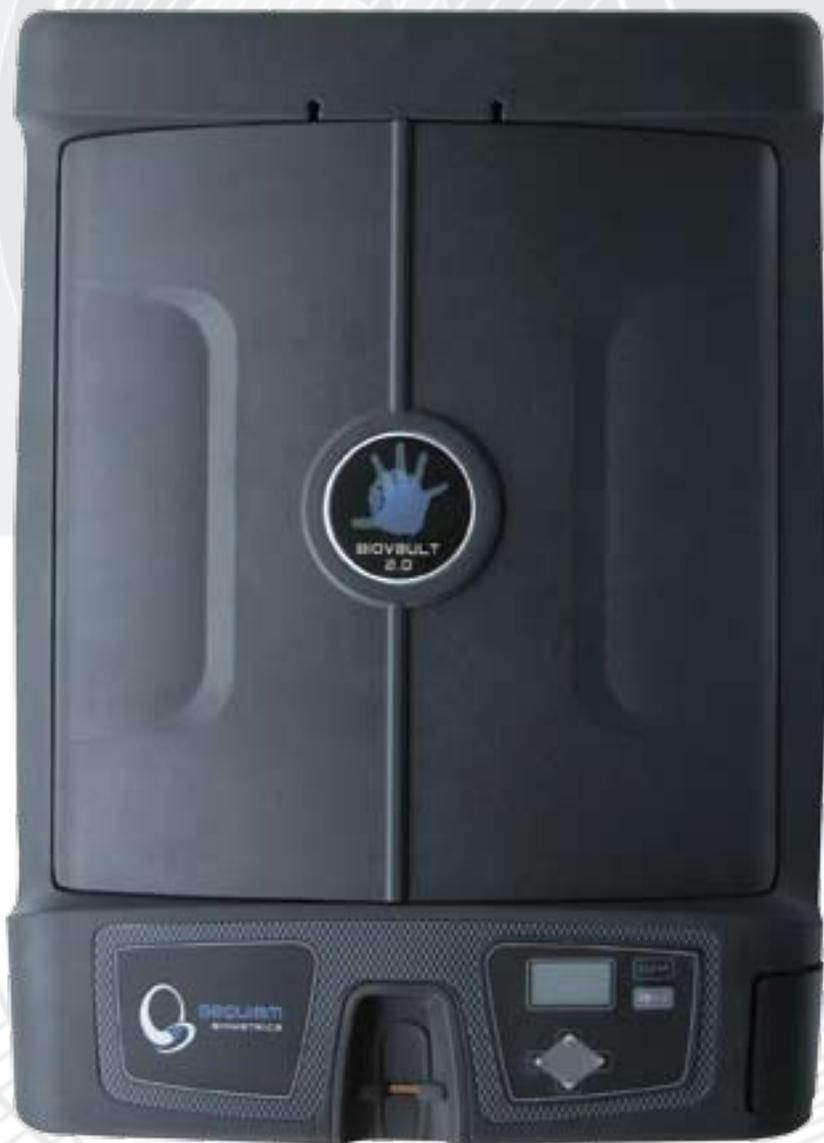*Access Control at the Touch of a Finger*

SEQUIAM
B I O M E T R I C S

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.

biovault.sequiam.com

1 YEAR LIMITED WARRANTY

The BioVault 2.0™ is guaranteed for one (1) year against manufacturer defects or malfunctions. In the event of failure, Sequiam Biometrics will, at its election, repair, replace or make appropriate adjustment where Sequiam Biometrics inspection discloses any defects occurring in normal usage. To obtain warranty service information please visit biovault.sequiam.com. Proof of purchase from the original consumer (original sales receipt) must accompany all warranty claims. Defects or damage caused by use of other than genuine Sequiam Biometrics parts are not covered by this warranty. Please do NOT return your product without first obtaining a Return Authorization Number (RA#).

BIOVAULT 2.0
Access Control at the Touch of a Finger

BioVault 2.0 is the ultimate solution to complete access control. Invented and developed by Sequiam, BioVault 2.0 provides safe storage and easily controlled access for handguns, weapons, ammunition, jewelry and other valuable items including: pharmaceuticals, coins, stamps, stocks, bonds, critical data and personal documents. BioVault 2.0's patent-pending technology is the culmination of over 20 years of biometric development. BioVault 2.0 requires no external computer or power to function, no keys or pass codes to provide override. Flash memory retains fingerprint data even during complete battery or electrical failure.

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 BioVault 2.0 are the following items:

(1) BioVault 2.0
(1) Instruction Manual
(1) Warranty & Registration Card
(1) A/C Power Adapter

Table of Contents

GETTING STARTED

1. Open the plastic cover on the right side of the BioVault 2.0 shown in Figure A below.
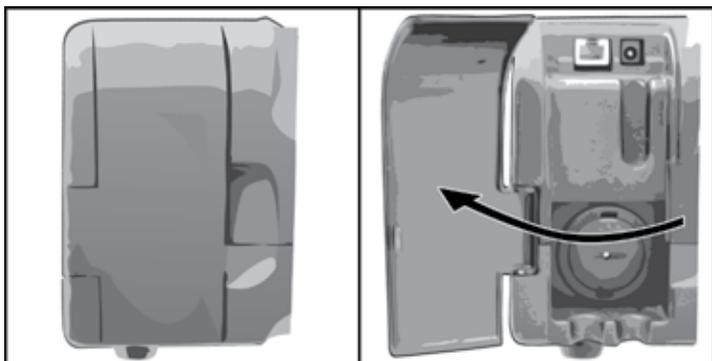

Figure A

2. To power the unit, either plug in the A/C adapter (included), or insert three D-Cell batteries (not included). To insert the batteries, first turn the battery cap one-quarter turn counter clockwise and pull off. Then insert the batteries with the negative (-) side going in first, as shown in Figure B. Replace battery cap by reinserting cap and turn it clockwise.
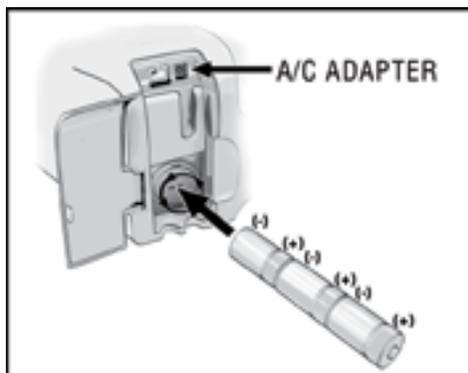

A/C ADAPTER

Figure B

NOTE: When plugging in the A/C adapter, please allow 20 seconds to elapse before trying to open the unit to allow the BioVault 2.0 to charge.

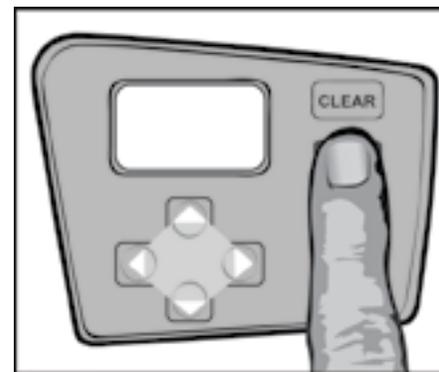3. Press ENTER to turn on the BioVault 2.0, as shown in Figure C.

Figure C

4. Place your finger over the biometric sensor, as shown in Figure D, and the unit will open.

Figure D

NOTE: If there are no users enrolled on the unit, when opened, it will beep four times to alert the user.

5. To close the unit, close the right door first, then the left door on top of it, as shown in Figure E-1 and E-2. Make sure to close firmly.
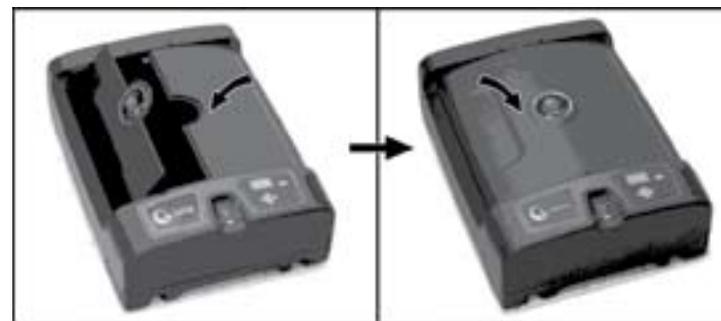

Figure E-1   Figure E-2

ENROLLING NEW USERS

1. If your BioVault 2.0 is not on, press any key to activate unit.

2. To Enroll the first User:

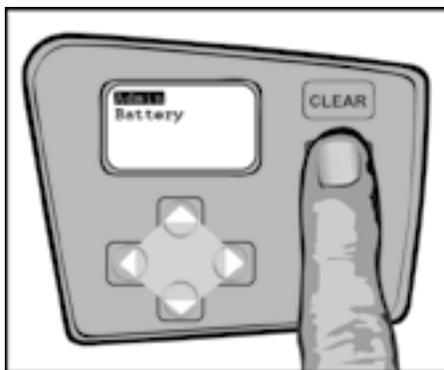   a. Select the Admin feature from the main menu and press the ENTER button, as shown in Figure F.

Figure F

    b. Scroll to Enroll, as shown in Figure G, by using the ▼ button and press the ENTER button.

Figure G

    c. BioVault 2.0 will then prompt you to swipe your finger three times by displaying "1 of 3" on the screen and the green lights will light up around the sensor area.

    d. Place your finger over the sensor with the tip of your finger at the top of the finger guide as shown in Figure H.

Figure H

    e. Make sure you have good, flat contact with the sensor. As soon as the green lights turn to orange lights, begin to swipe your finger from Position 1 to Position 2 (indicated in Figure I below), taking 1 to 2 seconds to complete the swipe. Try to get your entire fingerprint to cross the sensor. The orange lights indicate a scan is in progress. The orange lights will stay on until the swipe is complete.

Figure I

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

Figure J

    g. The lights will turn green again, indicating the first swipe was successful. The screen will display "2 of 3" indicating that the scanner is ready for the second swipe, repeat Step e (Figure H), then the screen will display "3 of 3" prompting for the final swipe, repeat Step e (Figure H) for a third time.

h. The lights will turn green if your enrollment is accepted, and the LCD will display "Captured Saved User 1", 2, 3 and so on, as shown in Figure K.
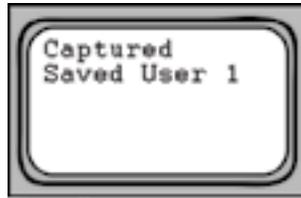

Figure K

i. If the enrollment was unsuccessful the red lights will light up and the user should repeat the enrollment process.

NOTE: It is recommended that the user enroll their finger 2 - 3 times, if possible, to increase successful access to the unit.

j. The first user (User 1) will automatically have administration privileges.

k. Press the CLEAR button twice to exit out of the administration menu and proceed to swipe your finger to test your enrollment, the BioVault 2.0 should open.

NOTE: Please try to open the unit by swiping your finger the same way you originally enrolled to ensure a successful authentication.

3. To enroll additional users:

a. Select Admin on the main menu and press ENTER this will prompt the admin to swipe his/her finger, as shown in Figure L.

Figure L

b. Once verified, select Enroll and press ENTER, then have the new user follow the enrollment instructions c - k from Step 2 (page 3).

ACCESSING THE UNIT

When using the A/C adapter to power the unit:

a. Place your finger over the sensor with the tip of your finger at the top of the finger guide as shown in Figure H (on page 4).

b. Make sure you have good, flat contact with the sensor. As soon as the green lights turn to orange lights, begin to swipe your finger from Position 1 to Position 2 (indicated in Figure I on page 4), taking 1 to 2 seconds to complete the swipe. Try to get your entire fingerprint to cross the sensor. The orange lights indicate a scan is in progress. The orange lights will stay on until the swipe is complete.

c. If the BioVault 2.0 detects a match the doors of the unit will then spring open.

NOTE: If the unit does not detect a match, red lights will flash indicating that you need to swipe your finger again. Please try to open the unit by swiping your finger the same way you originally enrolled to ensure a successful authentication. In the event that you cannot access the unit please consult our FAQ section on page 11 or go to biovault.sequiam.com.

When using batteries to power the unit:

d. Place your finger on the sensor until the orange lights around the sensor light up, indicating that the unit has awakened from sleep mode.

e. Follow steps a - c above.

NOTE: When repeatedly opening the unit you must wait for 20 seconds between openings to allow for the BioVault 2.0 to recharge. If you swipe you finger before the unit has recharged it will not open.

ADMINISTRATION FUNCTIONS

1. To name a user: select Admin and press ENTER, an administrator must scan their finger to verify admin rights.

    a. Select "Manage" and press ENTER.

    b. Select the User # to be renamed and press ENTER. Then select Rename, as shown in Figure M, and press ENTER.

Figure M

    c. Press the left arrow ◄ to erase the User # text and use up ▲ and down ▼ to select a letter and the right arrow ► to move to the next space.

    d. Press ENTER when you have the correct name entered. It will then ask you to verify the name change, press ENTER if the name change is correct.

NOTE: The user number corresponds to the order the users enrolled.

2. To give a second user admin rights or to revoke away, select Admin press ENTER, an administrator must scan their finger to verify admin.

    a. Select Manage and press ENTER.

    b. Scroll to the user you wish to assign admin privileges to, press ENTER and scroll to "Make Admin" and press ENTER, a star (*) will then appear next to the users name as shown in Figure N. The star (*) indicates admin privileges.

Figure N

    c. To revoke admin privileges away from a user, from the Manage screen scroll to the user you wish to revoke admin privileges from, press ENTER and scroll to "Revoke Admin" and press ENTER. The user will no longer have admin privileges and will no longer have a star (*) next to their name.

NOTE: At least one user must have admin rights at all times.

3. To delete a user

    a. Select Admin, an administrator must scan their finger to verify admin rights.

    b. Select Manage and press ENTER.

    c. Select the user # or user name to remove, press the ENTER, select Delete and press ENTER, as shown in Figure O.

Figure O

    d. The user has now been removed.

4. To Erase all the users

    a. Select Admin and press ENTER, an administrator must scan their finger to verify admin rights.

    b. Select Erase All and press ENTER.

    c. All users have now been removed.

CHECKING BATTERY LEVEL

TROUBLESHOOTING

1. If your BioVault 2.0 is not on, press any key to activate unit.

2. To check the battery level of your unit:

    a. Select the Battery feature from the main menu and press the
        ENTER button, as shown in Figure P.

Figure P

    b. The battery capacity is then displayed, as shown in Figure Q.
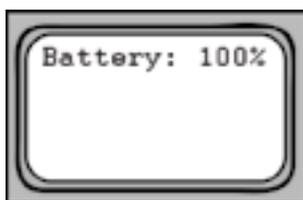

Figure Q

    c. The batteries should be changed once the battery level is less
       than 10%. The unit will also warn the user when the battery needs
       to be changed by sounding a long, continuous beep when it is
       opened.

The BioVault 2.0 is a very sophisticated and highly engineered piece of electronic equipment. It has been designed to grant an extremely high level of accuracy in the fingerprint authentication process as well as a high degree of reliability and dependability. This device is not a toy. The components and software have been rigorously tested. There are no consumer serviceable parts inside this unit. Please do not open or tamper with the circuit boards, firmware, or software. Should you experience any issues in the operation of the BioVault please review the FAQ section of this manual. If further information is needed please visit **biovault.sequiam.com** and you will find complete details and answers to common questions and additional operational instruction.

AVAILABLE ACCESSORIES

- Security Cable

- A/C Power Adapter

- Surface Mounting Bracket

- Internal Shelving System

- Custom Fit Container Storage System

For more information on these items, please visit **biovault.sequiam.com**.

FAQ   FREQUENTLY ASKED QUESTIONS

Q: Where can I buy accessories?
Where can I buy spare parts (battery covers, A/C adapters, etc)?
Where can I send the BioVault 2.0 for repair?
Where can I get another BioVault 2.0?

A: *Please visit **biovault.sequiam.com** for complete and accurate consumer help information.*

Q: What happens to the fingerprints that are stored in the BioVault 2.0 when the batteries die or during a power outage when plugged in using the A/C adapter?

A: *The BioVault 2.0 retains all fingerprints in the event of total power loss. Once the power is restored by either inserting new batteries or when the electricity is restored to the A/C adapter, the unit will function as it did before the power loss.*

Q: Can different BioVault 2.0 units use the same wall mount?

A: *Yes, all BioVault 2.0 units are designed to utilize the same wall mounts .*

Q: Is the BioVault 2.0 fire proof?

A: *No, the BioVault 2.0 is not fire proof or fire resistant. The BioVault 2.0 has been specifically designed for secure access control and convenience.*

Q: What do I do when I cannot open my BioVault 2.0?

A: *Please follow the following suggestions to open your BioVault 2.0:*
• Swipe your fingerprint over the scanner slowly and completely.
• Swipe an alternative registered fingerprint from another finger or from your other hand.
• If the unit is using battery power, replace the batteries or plug in the A/C adapter to the BioVault 2.0 and directly into a wall outlet and retry.
*• If the unit still will not open, please go to the BioVault 2.0 website (**biovault.sequiam.com**) for additional assistance.*

Q: Can the BioVault 2.0 use rechargeable D-Cell batteries?

A: *Yes, but they can not be recharged inside the BioVault 2.0 even if the A/C adapter is plugged in.*

Q: If I cut my finger, does the fingerprint heal the same as before and will it open my safe?

A: *Usually yes, although if the cut is significant or requires stitches, scar tissue may form as a result causing a change in your fingerprint. That is why we recommend enrolling additional user fingerprints and also fingerprints from your other hand.*

Q: Will the BioVault 2.0 scan my finger correctly when my finger/fingerprint is puffy after a shower/swimming?

A: *The BioVault 2.0 has been designed to be very sensitive when authenticating and matching fingerprints. The unit will open when your fingerprint has increased moisture from after an average shower or swim and will open. There may be times when extreme water retention due to extended time in the water will cause a minuet aspect of your fingerprints to change for a short time and access to your BioVault 2.0 may be denied until your fingerprint returns to its ordinary normal condition the same as when you originally enrolled that print.*

Q: Can someone cutoff my finger and try to use it to open the BioVault?

A: *No, BioVault 2.0 uses technology that detects live fingers for scanning, so in the unfortunate event that a detached finger is used to attempt access the unit will not open.*

Q: Can I travel with the BioVault 2.0 through US Customs or TSA Security at the airport?

A: *Yes, there are no restrictions on carrying this type of item. Please be aware that you may be asked to open the BioVault 2.0 rather than passing it through x-ray and that we recommend that an enrolled user be present during transporting this item in case such as request is made by a government authority.*

For additional, in-depth FAQ and information on BioVault 2.0, as well as information on biometrics and all consumer contact information, please visit **biovault.sequiam.com** .

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