



ClipDrive Bio

User's Guide

For Windows 2000 Installations

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Introducing ClipDrive Bio

ClipDrive Bio uses biometric technology to deliver the ultimate in data security to protect your data. Use your fingerprint and password to control access to the hidden encrypted partition. Amazing protection from the world's most advanced portable flash drive.



Guaranteed biometric security

The ClipDrive Bio Series flash drive utilizes a 128 x 128 high-definition pixel array sensor to deliver 100% biometric security for your data. It automatically encrypts data “on the fly” using 128-bit AES encryption.

System requirements

To use ClipDrive Bio you will need:

- Windows 2000 with Service Pack 4 installed
- a free USB Type-A port
- a CD ROM drive
- account with administrator privileges (required to install the ClipDrive Bio)

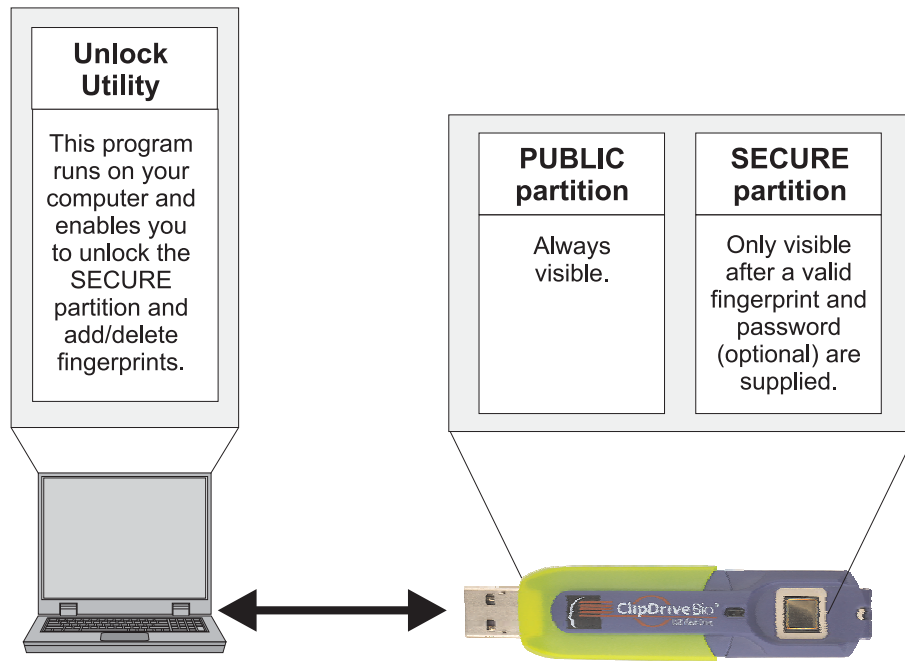
Important

Always transport the ClipDrive Bio in its case to protect the fingerprint sensor. Direct contact with metal objects, like keys, can permanently damage the fingerprint sensor and adversely affect the fingerprint capture process.

How it works

The partitions

ClipDrive Bio contains two storage partitions: There is a PUBLIC partition and a SECURE partition. Each operates just like a hard disk.



The PUBLIC partition

The PUBLIC partition is accessible as soon as you plug ClipDrive Bio into a USB port. It appears as a new drive letter with the label *Public*.

This partition is best used to store data that does not need to be protected. You can easily go from computer to computer, using this partition to transport and share data. No software needs to be installed to access this partition.

For ease of portability and to maximize flexibility, the software needed to use fingerprint security on systems other than your own can be saved on the PUBLIC partition.

The SECURE partition

The SECURE partition is hidden until it is unlocked with a valid fingerprint and password (if required). Until the partition is unlocked, data on the partition is protected by two levels of security:

- The partition is hidden from Windows and is invisible to any file management programs (such as Explorer).
- The data stored on the partition is encrypted using state of the art AES based encryption technology. This provides data security in the event the drive is disassembled and a direct attack to the flash memory is attempted.

Accessing the SECURE partition

Before you can access the SECURE partition, it must be unlocked. This requires that the ClipDrive Bio Unlock Utility program be installed on the computer that the ClipDrive Bio is connected to, and that a valid fingerprint and password (if required) are provided.

Once the SECURE partition has been unlocked, it appears to Windows as a new drive letter with the label *Secure*. Applications can access the data as on the partition as if it were on a standard storage device. Encryption and decryption of the data is done seamlessly, “on the fly,” and is transparent to Windows and any applications accessing the data. There is no cumbersome copying of the data, decrypting it, using it, and then re-encrypting the result.

Partition sizes and formatting

By default, each partition takes up half of the available capacity on the ClipDrive Bio. You can easily change the size of the partitions to meet your needs. However, since both share the same available space, as one partition gets larger the other gets smaller. Both partitions must always exist, although you can set one to be the minimum size (about 1MB), leaving the rest of the space for the other. Note that all data will be lost upon resize.

Both partitions are formatted with FAT 32. You can re-format them, but only with FAT 16 or FAT 32. NTFS is not supported. It’s recommended to use the “Resize” option of the ClipDrive Bio Unlock Utility program.

Managing access to the ClipDrive Bio

There are two levels of access on the ClipDrive Bio.

1. **User:** This corresponds to a user who has a fingerprint enrolled in the fingerprint database on the ClipDrive Bio. When the ClipDrive Bio Unlock Utility program is run, the user applies the fingerprint (and optional password) and is granted access to the SECURE partition.
2. **Administrator:** The administrator is responsible for adding user fingerprints to the fingerprint database, and for certain administrative tasks, such as setting the size of the partitions. To activate administrator mode, a user must supply the administrator password and a valid fingerprint. (If the fingerprint database is empty, a fingerprint is not required.)

Passwords

Two different passwords are used by the ClipDrive Bio Unlock Utility program. Passwords are case sensitive, can contain any character on the keyboard, and can be up to 32 characters in length.

1. **Administrator password:** This password grants access to the administrative tools for enrolling new users and defining configuration settings. This password is blank until you set it. If you lose the administrator password you will no longer be able to manage the ClipDrive Bio. Contact ClipDrive technical support for assistance. In any case, all of your data will be lost.

2. **Unlock password:** As an additional security feature, a password can be required along with a fingerprint to unlock the SECURE partition. This password is shared by all users but can only be defined by the administrator.

Fingerprint database

Up to 16 user fingerprints can be stored in the fingerprint database. The database is stored on the ClipDrive Bio in a secure hidden encrypted file.

Only the administrator can add user fingerprints to the database or clear the database.

Important: It is strongly advisable that the administrator enroll more than one finger in the database to permit access in the case of an unanticipated injury.

Limits

- Only one ClipDrive Bio can be in used at a time on a computer.
- A maximum of 16 fingerprints can be stored in the database.

Getting started

New installation

If you are installing ClipDrive Bio for the first time, you should perform the following tasks:

Task	See page
Install the ClipDrive Bio	6
Configure ClipDrive Bio	11

Upgrading an existing installation

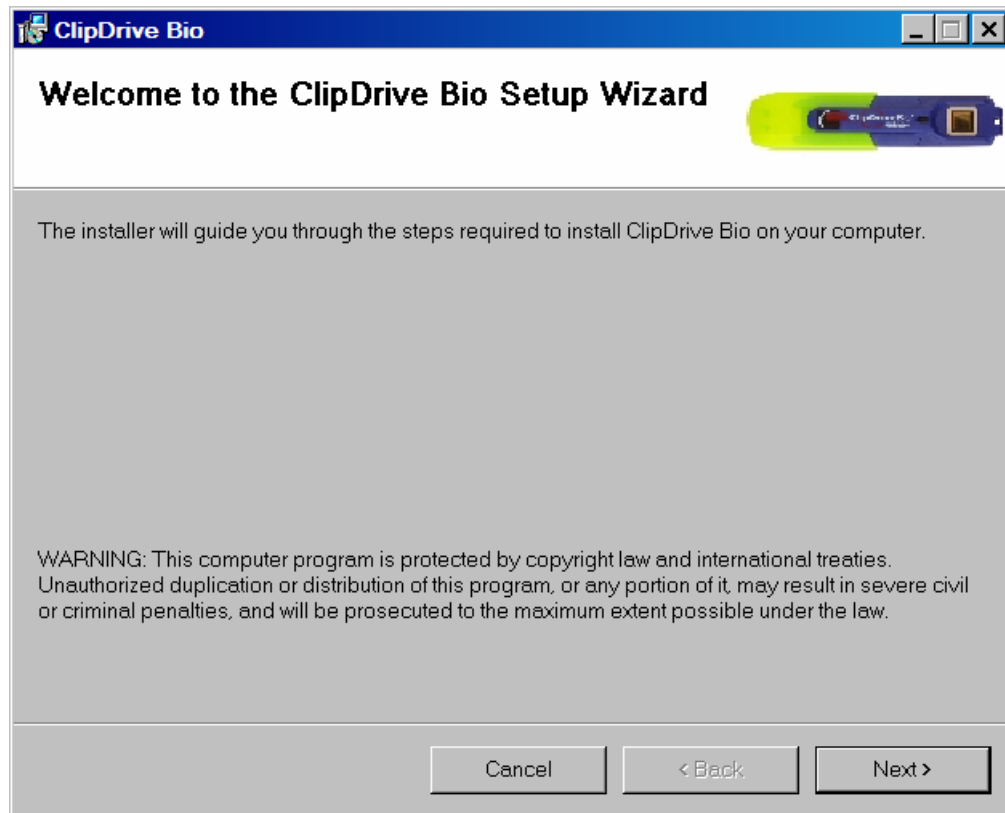
If you have an existing ClipDrive Bio installation, you need to remove the old software before you can install this version.

Note: Removing the old software will not affect your fingerprint database or administrator password.

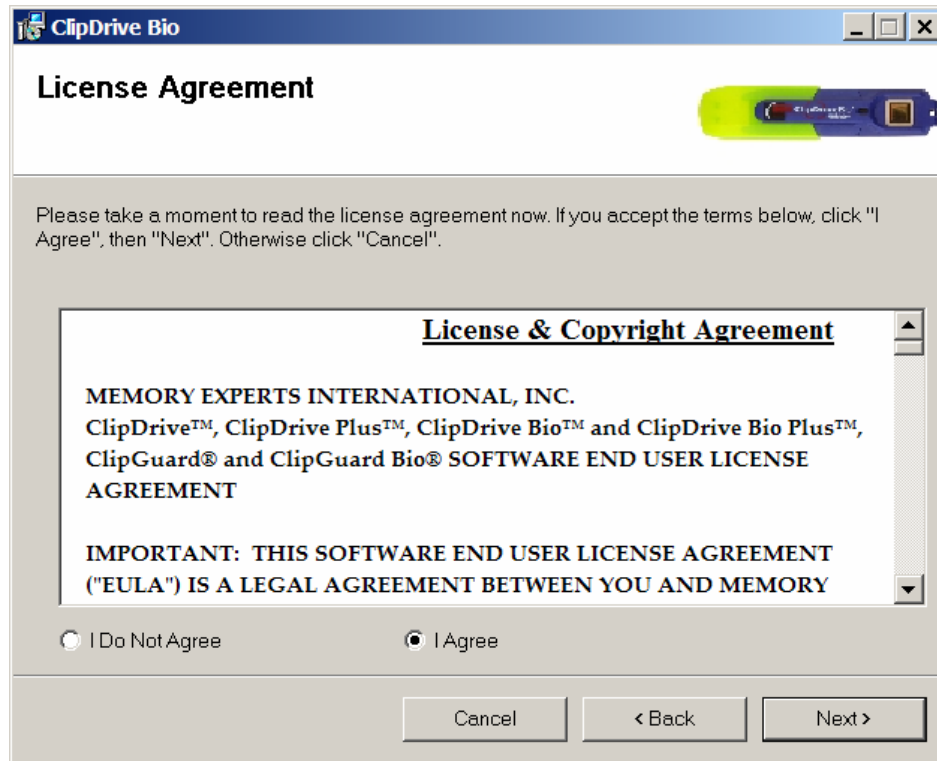
Task	See page
Remove the previous installation.	29
Install the ClipDrive Bio Unlock utility	6
Configure ClipDrive Bio	11

Installing the ClipDrive Bio

1. **Do not insert the ClipDrive Bio hardware into your USB port.** If you already done it, you can cancel the new hardware process and make a Safely eject (see page 27).
2. Insert the ClipDrive Bio CD into your CD-ROM drive
3. The ClipDrive Bio Installation program should start or you can browse the CD and double click on the Setup Icon to start it manually. Click **Next**.



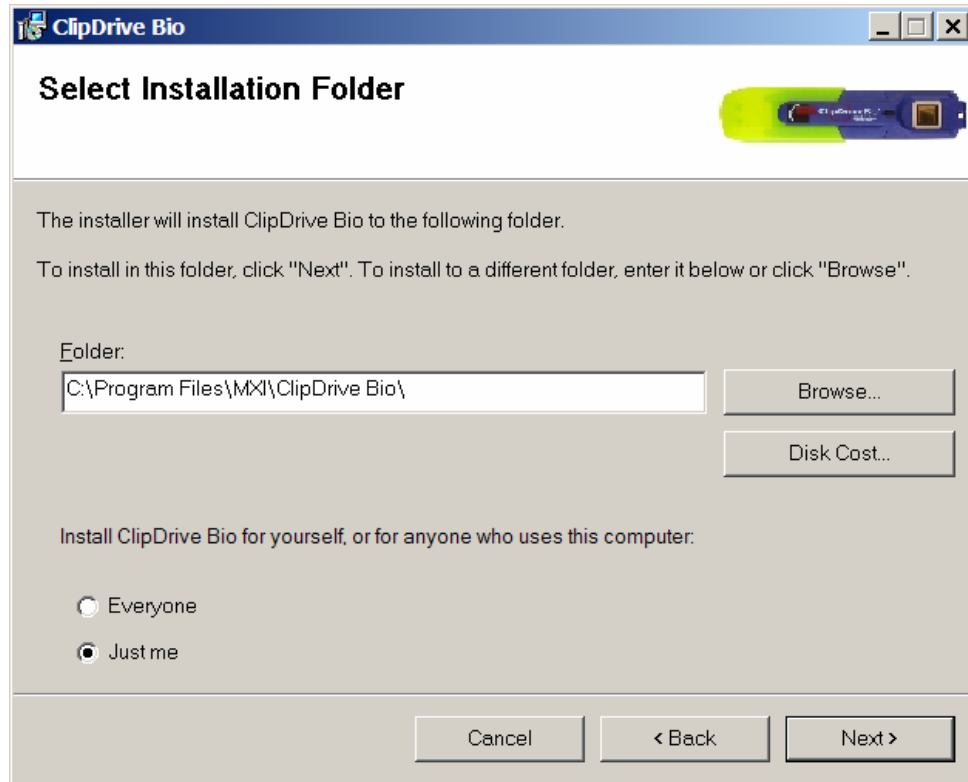
4. Read the license agreement, select **I Agree** (if you would like to continue with the installation) and click **Next**.



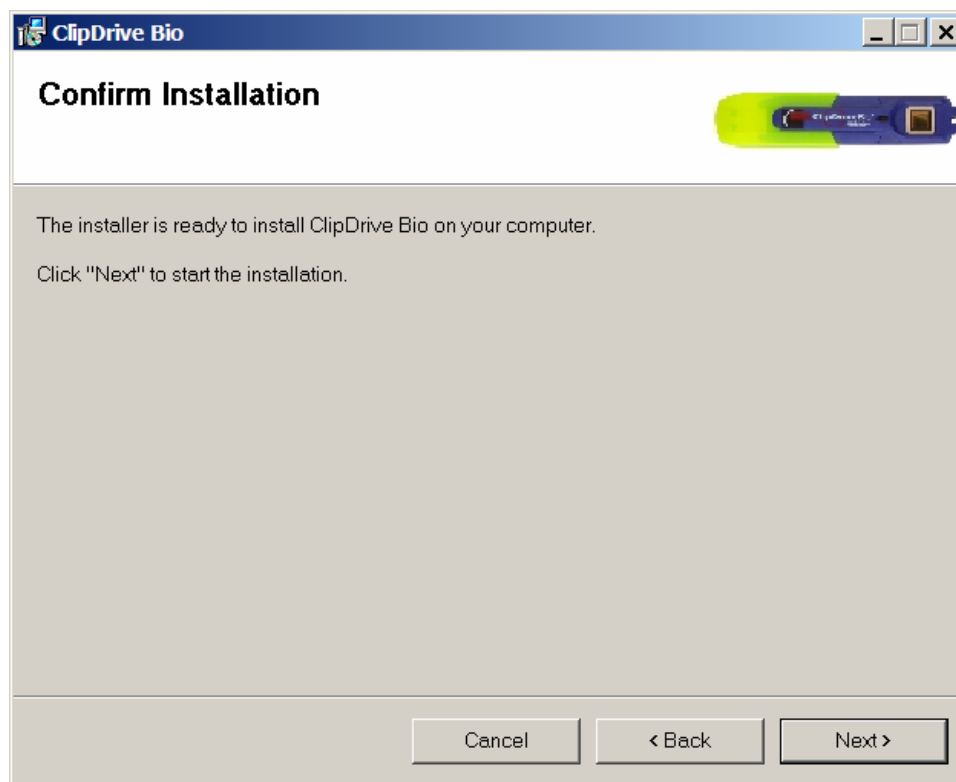
5. Set the installation options as follows and then click **Next**.

- Select the folder where you want to install the software.

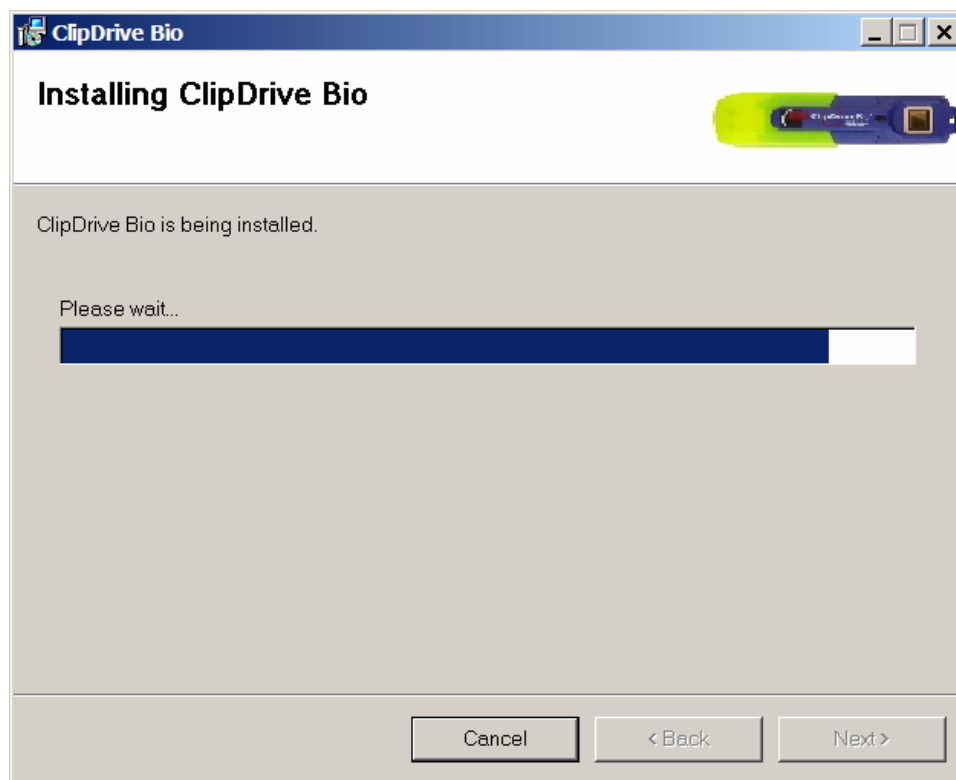
- Select which users you want to install the software for. If you select **Everyone**, then the **ClipDrive Bio Unlock utility** desktop icon will appear for every user on the computer. If you select **Just me** then the icon will appear on just your desktop.



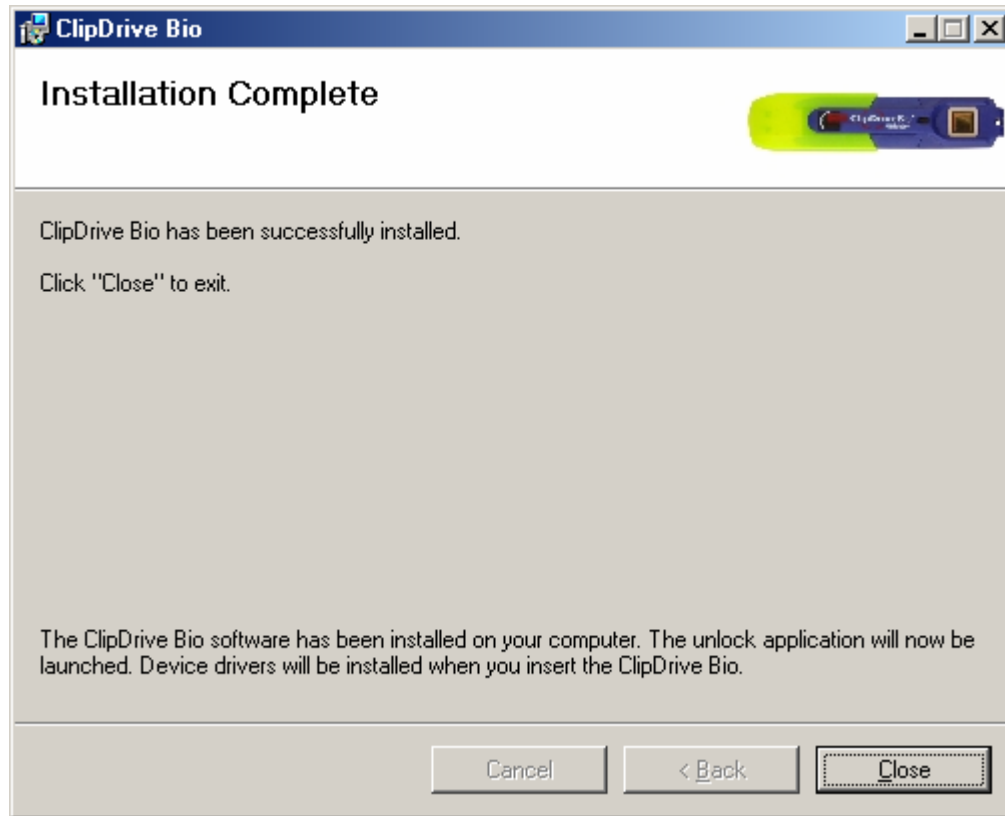
6. Click **Next** to begin the installation.



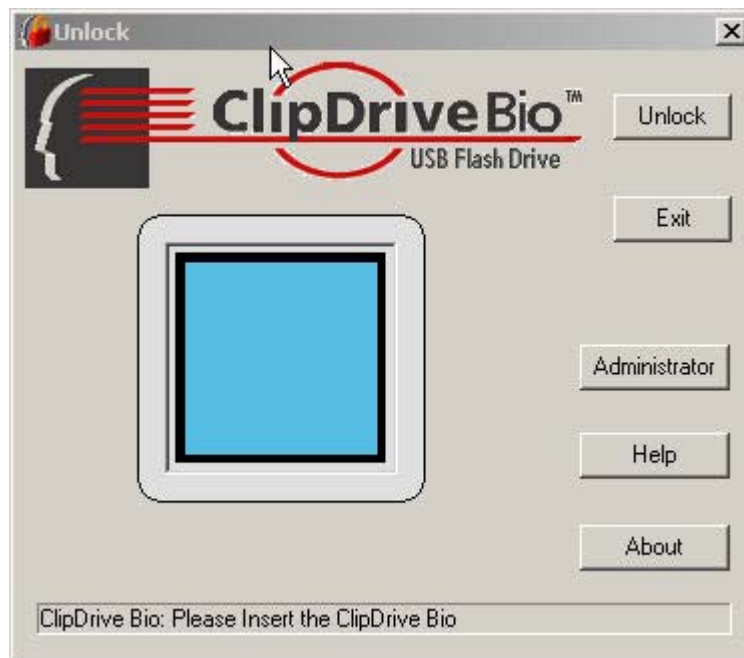
7. The blue bar indicates the progress of the installation.



8. Click **Close** to exit the installation wizard.



9. The Unlock Utility program will automatically start after installation completes.



10. **Connect the ClipDrive Bio to your USB port.** Windows XP and the Unlock Utility program will automatically install the correct drivers for it. You are now ready to configure the ClipDrive Bio.

Configuring ClipDrive Bio

This section explains how to setup access to the SECURE partition. Before you follow the instructions in this section, make sure that you have installed the ClipDrive Bio software as explained earlier in this guide.

The steps you must complete are:

1. Start the Unlock Utility.
2. Insert the ClipDrive Bio.
3. Set the Administrator password.
4. Set Unlock options.
5. Set the size of the partitions.
6. Enroll one or more user fingerprints.

Step 1: Start the Unlock Utility

The ClipDrive Bio Unlock Utility enables you to unlock the secure partition. To start it, click **Start > Program Files > ClipDrive Bio Unlock** or double-click the following icon on the desktop



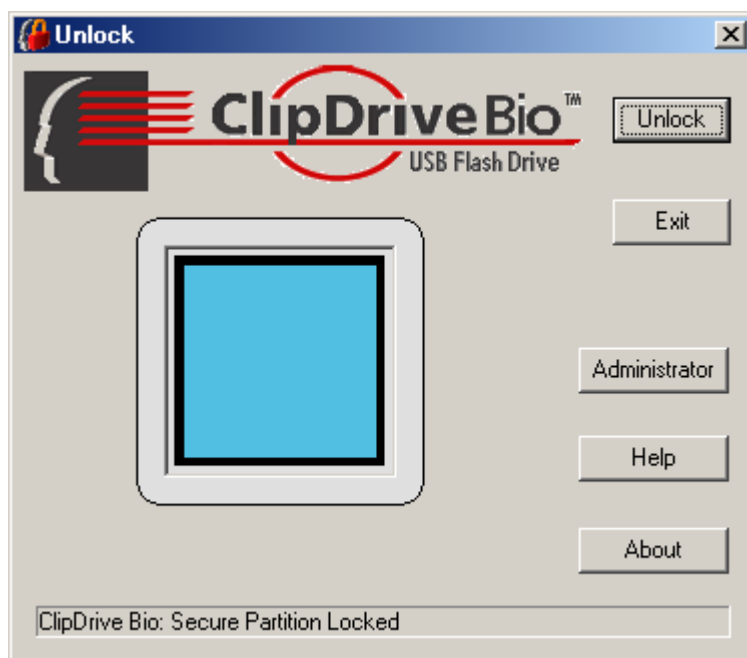
The Unlock Utility window opens:



Online help is available by clicking the Help button on the main screen, or by pressing the **F1** key when on any other screen.

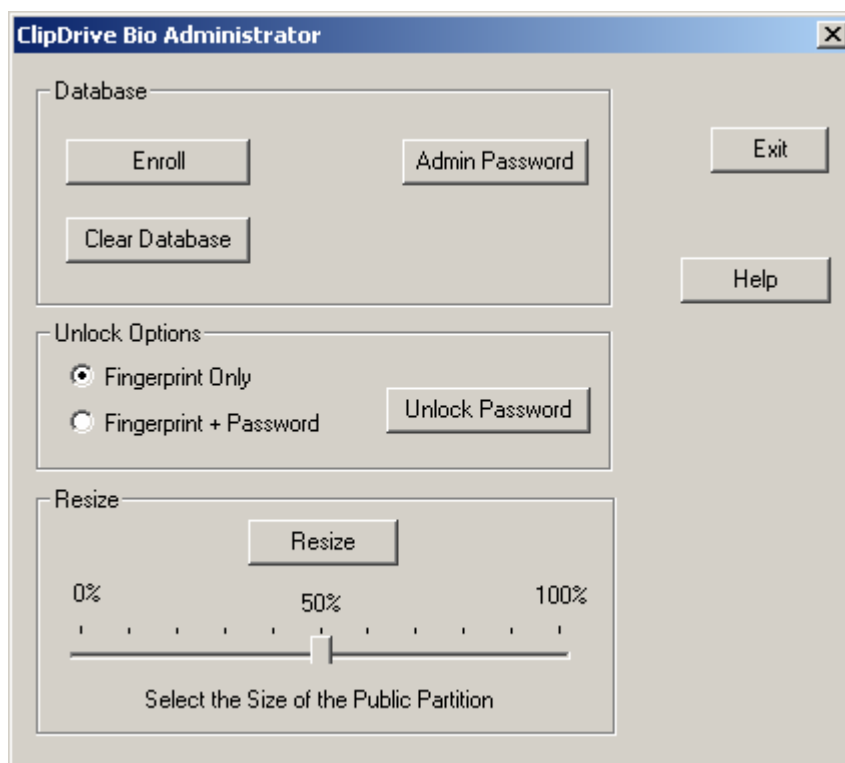
Step 2: Insert the ClipDrive Bio

If not already done, connect the ClipDrive Bio to your USB port. Windows XP and the Unlock Utility program will automatically install the correct drivers for it. The Unlock Utility program will also lock the SECURE partition.



Step 3: Set the Administrator password

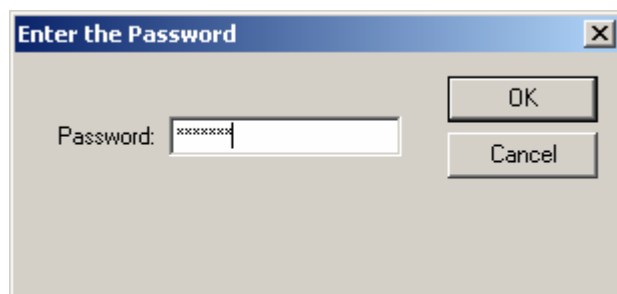
Click the **Administrator** button to activate Administrator mode.



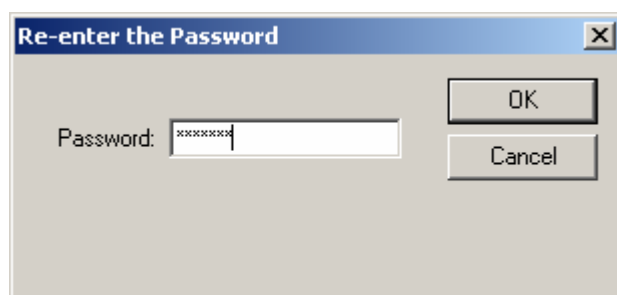
IMPORTANT: *Once you define the Administrator password and enroll a user fingerprint (as described later), you will be required to supply both to activate Administrator mode.*

The first thing that should be done on a new ClipDrive Bio is to set an Administrator password. The Administrator password controls access to all configuration options on the ClipDrive Bio. This is particularly important if ClipDrive Bio is shared by multiple users. Only users who know the Administrator password can gain access to Administrator mode (If no Administrator password is set, then every user is an administrator on the ClipDrive Bio).

1. Click the **Admin Password** button.
2. Type in a password and click **OK**. Passwords are case sensitive, can contain any character on the keyboard, and can be up to 32 characters in length. It is a good idea to use both letters and numbers in your password to decrease the likelihood of it being guessed.



3. Re-enter the password and click **OK**.



4. Click **OK** to return to the Administrator window.



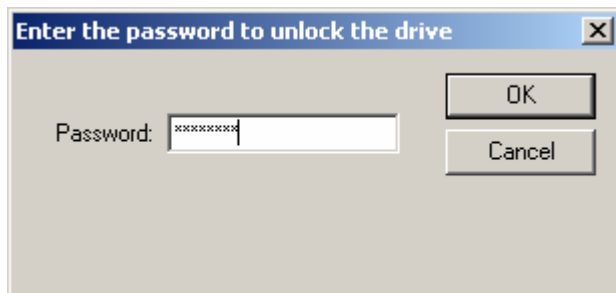
Step 4: Set Unlock options

The Unlock options let you control how users will gain access to the SECURE partition. This can be via fingerprint only, or via fingerprint and the Unlock password.

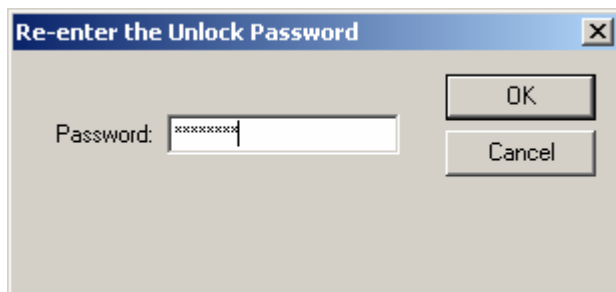
- The Unlock password is not the same as the Administrator password.
- There is only one Unlock password for all registered fingerprints. If an Unlock password is set, each user must know it to gain access to the SECURE partition.

If you want to use the Unlock password, do the following:

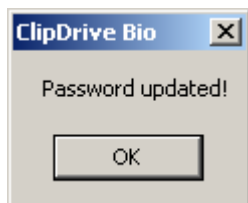
1. In the **Unlock Options** box, select **Fingerprint + Password** or Click the **Unlock Password** button.
2. Type in a password and click **OK**. Passwords are case sensitive, can contain any character on the keyboard, and can be up to 32 characters in length. It is a good idea to use both letters and numbers in your password to increase its security.



3. Re-enter the password and click **OK**.

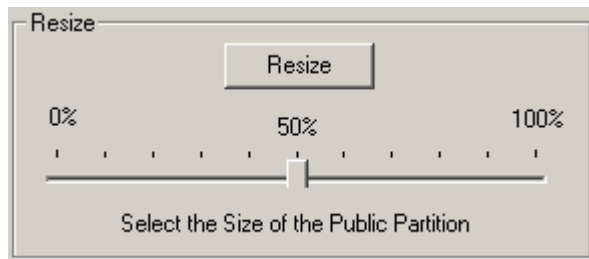


4. Click **OK** to return to the Administrator window.



Step 5: Set the size of the partitions

By default, ClipDrive Bio assigns half of all available storage space to each partition. You can change the allocation for each partition using the slider in the **Resize** box.



The slider sets the amount of storage allocated to the PUBLIC partition as a percentage of total space available. As you increase the size of the PUBLIC partition, the size of the SECURE partition will be decreased accordingly.

For example, if you set the slider to 25%, the PUBLIC partition will use 25% of the total space and the SECURE partition will use 75%.

Once you have set the slider, click the Resize button to apply your new settings.

Important: Changing the partition size erases all data stored in both partitions. However, it does not erase fingerprint or password information.

Step 6: Enroll one or more user fingerprints

Each user that requires access to the SECURE partition must enroll at least one fingerprint. It is recommended that each user enroll two fingerprints (using a finger from each hand) to permit data retrieval in the case of an unforeseen injury. This is especially important if you are the only user of the ClipDrive Bio.

A maximum of 16 fingerprints can be stored in the fingerprint database.

Enrolling an accurate fingerprint image is crucial to minimizing the probability of false identification and maximizing access security. ClipDrive Bio builds a complete digital image of a fingerprint pattern using several scanned images. For best results, select the section of your finger having clearly unique rib and valley patterns. Generally, this is found in the center of your fingertip as shown below.



Placement of your fingertip on the Fingerprint Sensor is also crucial to obtaining an accurate fingerprint scan. Align the center of your fingerprint as close to the center of the Fingerprint Sensor as possible and ensure firm contact with the white ring.

Correct placement

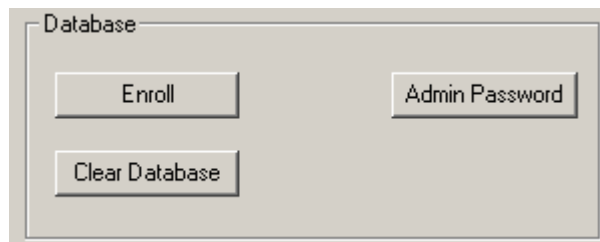


Incorrect placement

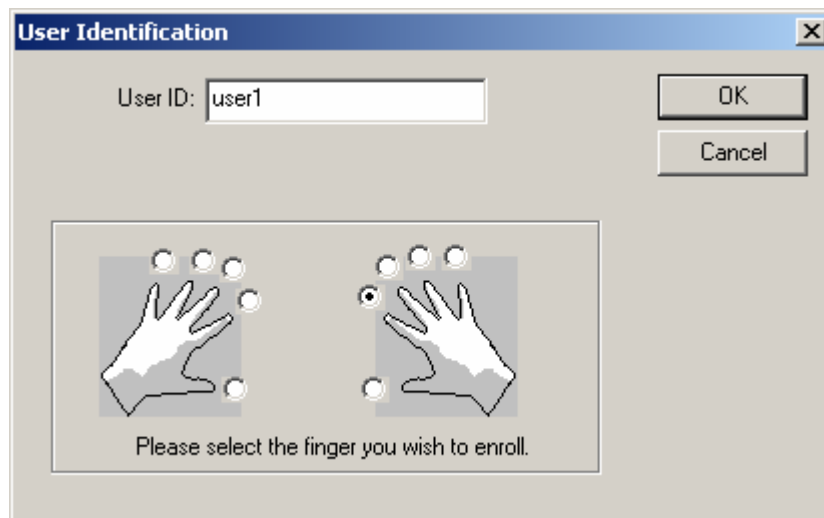


To enroll a fingerprint, do the following:

1. In the **Database** box, click the **Enroll** button.



2. Enter a **User ID** and select which fingerprint to enroll.

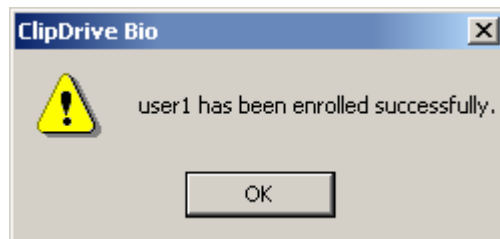


3. Place the selected finger on the ClipDrive Bio sensor.

The enrollment process consists of building a complete digital image of your fingerprint pattern from successive scanned images. You will be prompted to raise and lower your finger several times.



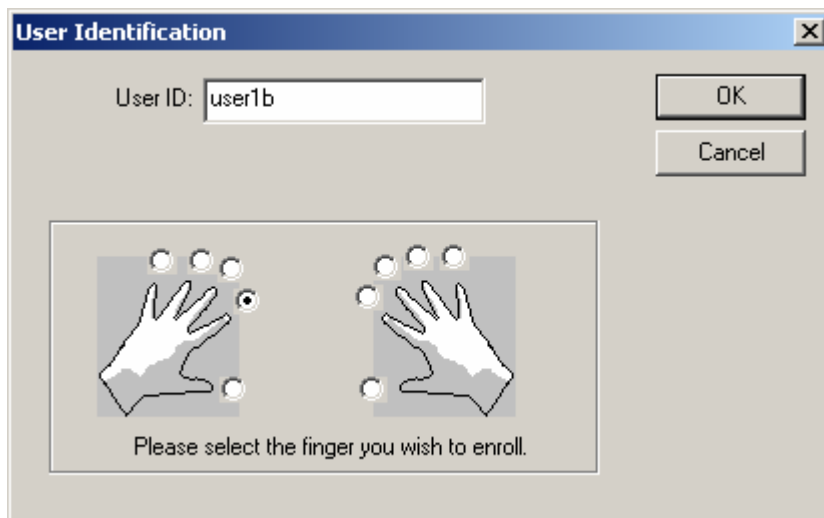
4. When done, a message is displayed confirming that enrollment was successful. For example:



5. You will be prompted to create a second fingerprint entry for the user.

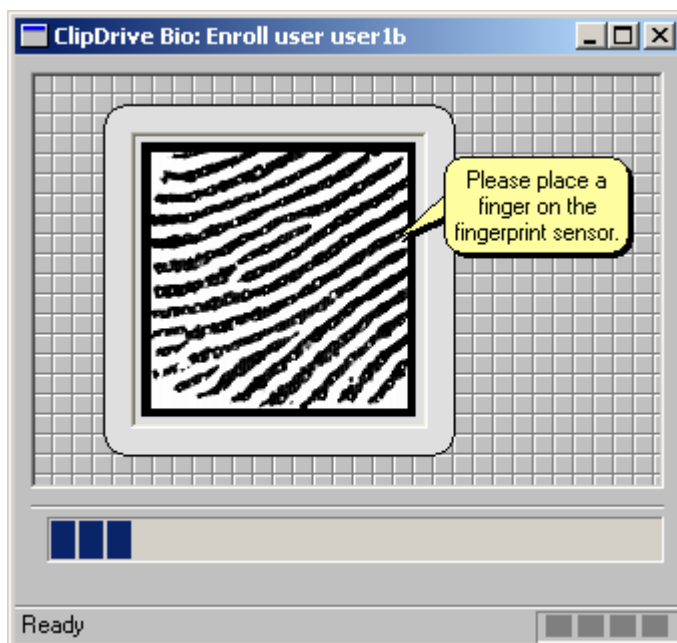
Important: It is strongly advised that all users, and especially the administrator, enroll more than one finger in the database to permit access in the case of an unanticipated injury.

6. Enter another **User ID** and select another fingerprint to enroll.

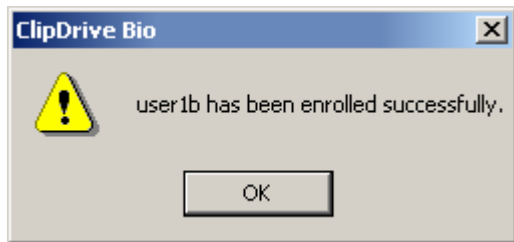


7. Place the selected finger on the ClipDrive Bio sensor.

The enrollment process consists of building a complete digital image of your fingerprint pattern from successive scanned images. You will be prompted to raise and lower your finger several times.



8. When done, a message is displayed confirming that enrollment was successful. For example:



9. Click **OK** to return to the Administrator window.

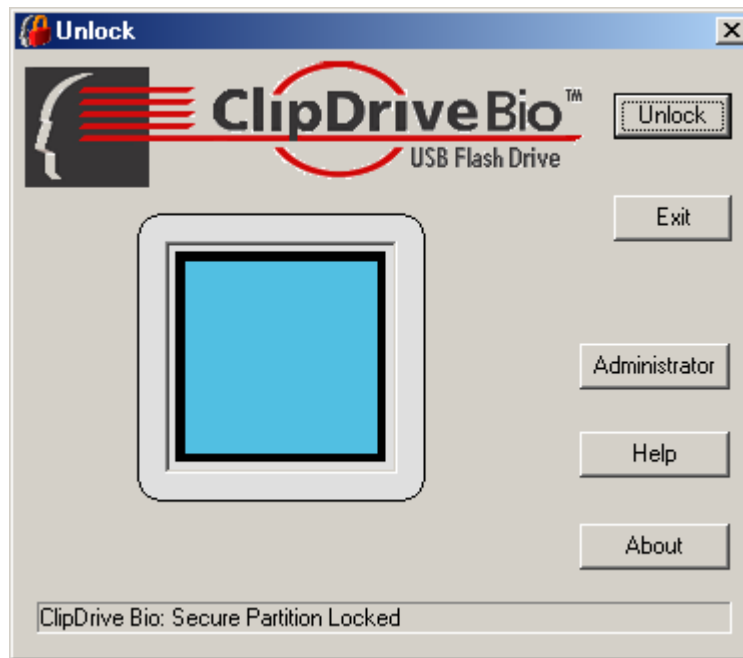
To enroll additional fingerprints, repeat this procedure. When all fingerprints have been enrolled you are ready to start using the SECURE partition on the ClipDrive Bio.

Accessing the SECURE partition

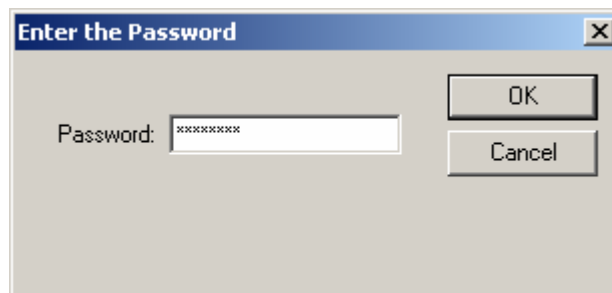
You must enroll one or more user fingerprints (as described in the previous section) before you can unlock the SECURE partition.

To access the SECURE partition, do the following:

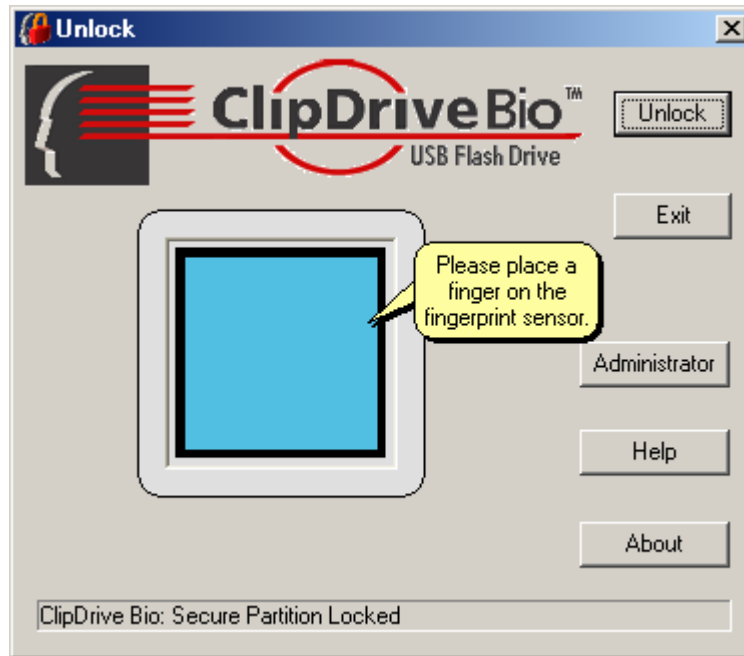
1. Click the **Unlock** button on the main window of the ClipDrive Bio Unlock Utility.
2. Insert the ClipDrive Bio into a free USB port.



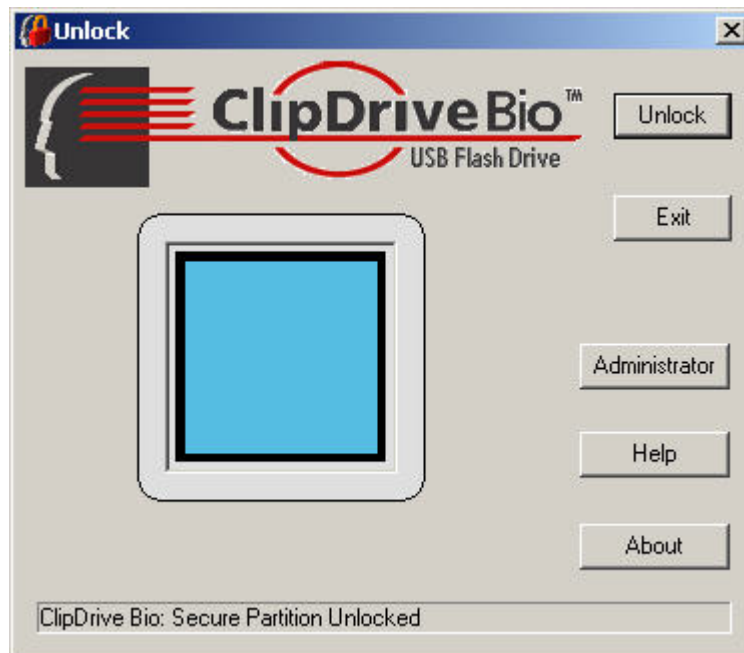
3. If an Unlock password was defined, you are prompted for it. Enter the password and click **OK**.



4. Place any previously enrolled finger on the fingerprint scanner.



If identification of both fingerprint and password (if required) is successful, the SECURE partition is unlocked and will be visible to Windows. A “Secure Partition Unlock” message will be printed and the Unlock Utility Program will automatically close a few seconds later.



Activating Administrator mode

Once an Administrator password has been defined, and at least one user fingerprint has been enrolled, access to Administrator mode requires that you supply both a valid fingerprint and the administrator password.

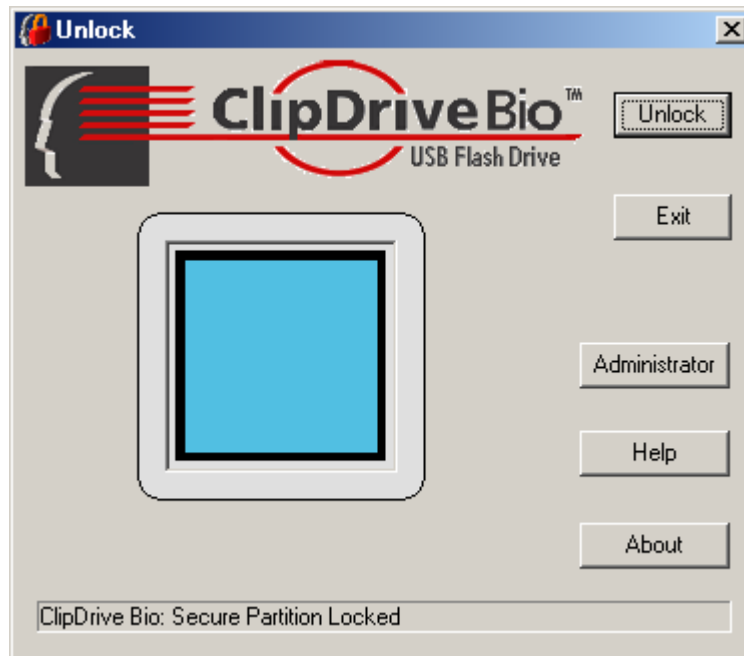
To activate Administrator mode, do the following:

1. Start the Unlock Utility by double-clicking the **ClipDrive Bio Unlock** icon on the desktop



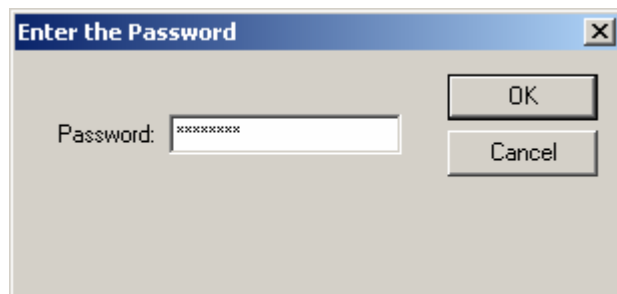
Or, by clicking Start > **Program Files** > **ClipDrive Bio Unlock**.

2. Insert the ClipDrive Bio into a USB port.

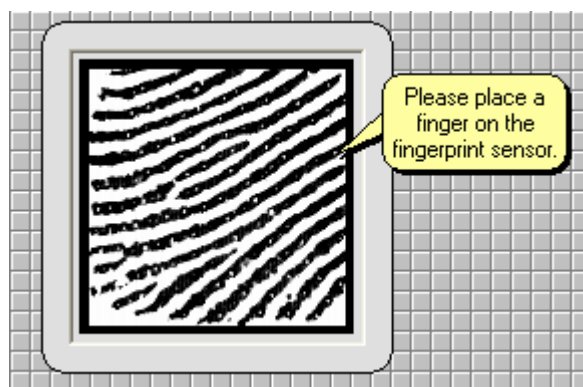


3. Click the **Administrator** button:

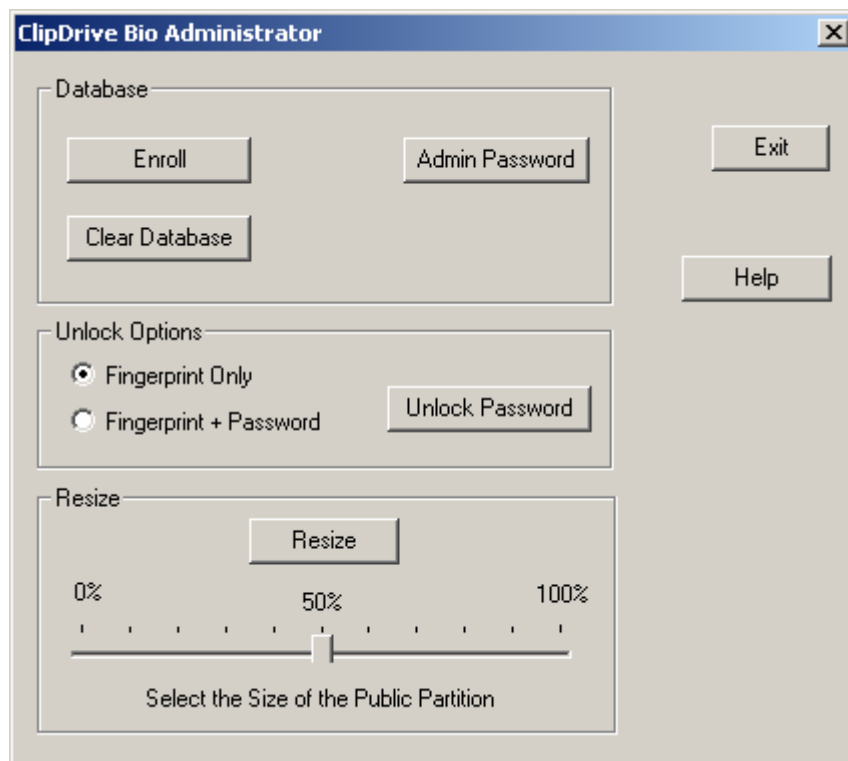
4. Enter the Administrator password and click **OK**.



5. Provide a previously enrolled fingerprint.



5. If identification of both fingerprint and password is successful, the Administrator window opens.



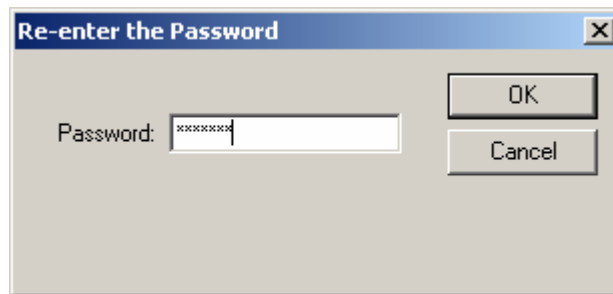
Changing the Administrator password

1. Click the **Admin Password** button.
2. Type in a password and click **OK**. Passwords are case sensitive, can contain any character on the keyboard, and can be up to 32 characters in length. It is a good idea to use both letters and numbers in your password to increase its security.

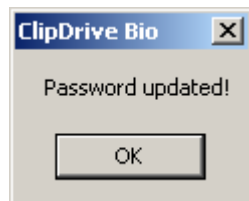


Important: If you leave the password blank, the Administrator password is deleted. After this you will only be prompted for a fingerprint to access the Administrator options.

3. Re-enter the password and click **OK**.



4. Click **OK** to return to the Administrator window.



Clearing the database

Clearing database removes all enrolled **user fingerprints**, the **user password**, and the **administrator password**. In order to access the SECURE partition, you will have to enroll new fingerprints.

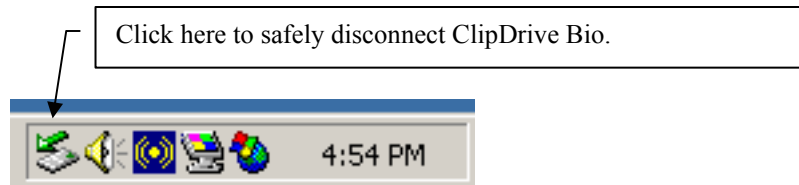
To clear the database, do the following:

1. From the **Administrator mode**, click the **Clear Database** button.
2. Click **YES** to process.



Disconnecting ClipDrive Bio from your computer

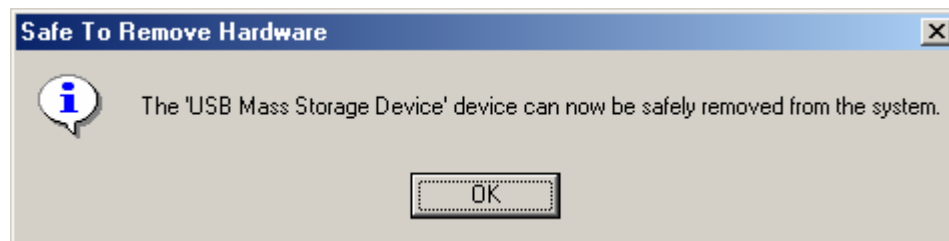
1. Before you unplug or eject your ClipDrive Bio, click the safely remove hardware icon that appears in the system tray in the bottom right corner of your screen



2. Click **Stop USB Mass Storage Device**.



3. Wait for the following message to appear before disconnecting ClipDrive Bio.



Cleaning ClipDrive Bio Fingerprint Sensor

In normal use, monthly cleaning of the fingerprint sensor surface is recommended. To clean the finger drive ring and the sensor surface, follow these steps:

1. Disconnect ClipDrive Bio from your computer.
2. Use the supplied ClipDrive Bio Cloth with any type of household kitchen or window cleaner, such as Formula 409, Fantastic, Windex, or any generic versions of these cleaners.
3. Dampen the cloth (it should not be dripping wet) with one of the recommended cleaners.
4. Gently rub the sensor surface and finger drive ring with the cloth, slowly rotating the cloth so a new, clean section of the cloth is constantly exposed to the sensor surface.
5. After cleaning, gently rub the sensor again with a dry section of the cloth.
6. Clean the cloth.

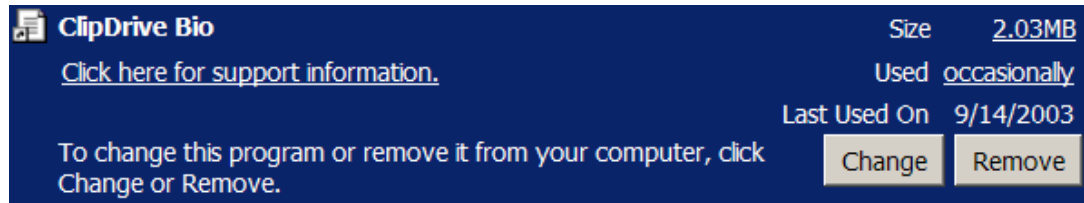
IMPORTANT: Do NOT clean the sensor with chlorine -based cleaners, such as Clorox bleach, non-chlorine bleach, or chlorine-based bathroom or mildew cleaners. Chlorine based cleaners will not necessarily affect the functionality of the fingerprint sensor, but they will discolor the finger drive ring and could damage the surrounding circuitry.

IMPORTANT: Do NOT clean the sensor with solvents, such as acetone, MEK, TCE, paint thinner, turpentine, etc. Solvents will not adversely affect the sensor, but they might damage the surrounding enclosure and components peripheral to the sensor.

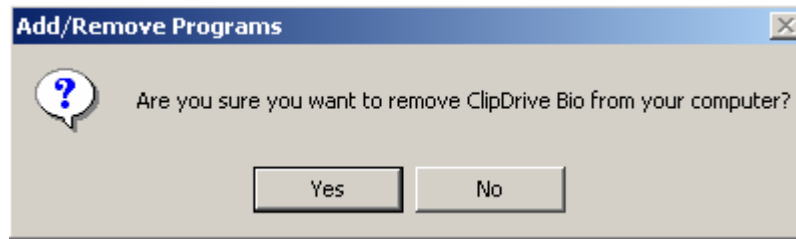
Removing ClipDrive Bio software

To remove ClipDrive Bio software from your computer, do the following:

1. Disconnect ClipDrive Bio using the procedure on page 27.
2. Click the **Start** button, and then click **Setting->Control Panel**.
3. Double-click **Add/Remove Programs**.
4. In the list that appears, find the ClipDrive Bio program.



5. Click the **Remove** button.
6. Click **Yes** to confirm that you want to uninstall the program.



7. Wait for the program to be removed.
8. Reboot your computer. **This is very important.**

Installing from the PUBLIC partition without the CD

Instead of carrying the CD for installing the ClipDrive Bio software on a new computer, one could copy the CD content onto the PUBLIC partition and run setup from there. If the public capacity is limited, one may only copy the files from the [unlock](#) directory. This makes it easy to install the ClipDrive Bio drivers and software so you can quickly have full access to your ClipDrive Bio on any computer.

To copy the ClipDrive Bio software to the PUBLIC partition, do the following:

1. Insert the ClipDrive Bio CD into your CD drive.
2. Open a browser. (Ex.: Click on the shortcut **My Computer** from the desktop)
3. Browse the ClipDrive Bio CD.
4. Select the data to copy. (Ex.: On the **Edit** menu, click **Select All** or click once on the directory “unlock” to select only this directory.)
5. On the **Edit** menu, click **Copy**.
6. From a browser, open the PUBLIC partition or the removable disk associate to it.
7. On the **Edit** menu, click **Paste**. Wait while Windows copies the contents of the CD to the PUBLIC partition.

To install from the PUBLIC partition, do the following:

1. Start your computer and log in as *administrator* (or into an account with administrator privileges).
2. Insert the ClipDrive Bio into a free USB port.
3. Windows will automatically found the new hardware. (You can cancel it.)
4. From a Browser, select the PUBLIC partition or the removable disk associate to it.
5. Double-click the **ClipDrive Bio setup icon**.

 Setup.Exe	 setup.exe
Icon from the unlock directory	Icon from the root directory

6. Follow the installation instructions starting with step 3 on page 6.

7. Once setup completes, the Unlock Utility program will prompted after around 15 seconds:



8. Unplug the ClipDrive Bio from the USB port.
9. Wait a few seconds.
10. Plug-it back into the **same** USB port.
11. Wait until Windows has completed the installation of the new hardware.
12. Then press the OK button.

Run Unlock Utility Program from the PUBLIC partition

Even though one should run an installation before using the ClipDrive Bio, you may run the Unlock utility directly from the PUBLIC partition. As in the previous section, you need to copy files of the CD on the PUBLIC partition of the ClipDrive Bio.

To run Unlock from the PUBLIC partition without running setup, one shall proceed as follows: Not doing so may result in crashing of the application.

1. Start your computer and log in as *administrator* (or into an account with administrator privileges).
2. Insert the ClipDrive Bio into a free USB port.
3. Windows will automatically found the new hardware. (You can cancel it.)
4. From a Browser, select the PUBLIC partition or the removable disk associate to it.
5. Double-click the **Unlock icon**.



13. The Unlock Utility program will prompted after around 15 seconds:



14. Don't remove the ClipDrive Bio and press OK.

Note: If you remove the ClipDrive, the application will close later and windows will prompt you a message. Don't worry. Press Ok and launch a second time the application from the PUBLIC partition.

15. Click on the **Exit** button to quit the application.

16. Remove safely the ClipDrive Bio from the USB port.
 17. Wait a few seconds.
 18. Plug-it back into the **same** USB port.
 19. Wait until Windows has completed the installation of the new hardware.
 20. Launch the application again from the PUBLIC partition. Double-click the **Unlock icon**.
- Note:** Next time that you will use the same USB port on the same PC, it will be functional immediately.

Transferring ownership of the ClipDrive Bio

Before you transfer the ClipDrive Bio to another user, you should do the following:

7. Backup all the files from the PUBLIC and SECURE partitions.
8. From the Administrator mode, select the **Clear Database** button.
9. Select the **Resize** button. This re-formats the PUBLIC and SECURE partitions, so this clears all data stored on the ClipDrive Bio.

Troubleshooting

For the latest information and Technical Support, visit <http://www.clipdrive.com/>.

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Certification

ClipDrive Bio generates and uses radio frequency (RF) energy. If the equipment is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television reception may result.

Interference

This equipment complies with Part 15 of the FCC Rules and its operation is subject to the following conditions:

- (1) The equipment may not cause harmful interference.
- (2) The equipment must accept any interference received, including interference that may cause undesired operation.

Part 15, Class B, of the FCC Rules, is designed to provide reasonable protection against radio and television interference installation. Although the equipment has been tested and found to comply with allowed RF emission limits, as specified in the above-cited Rules, there is no guarantee that interference will not occur in a particular situation. Interference can be determined by turning the equipment off and on while monitoring radio or television reception. The user may be able to eliminate interference by implementing one or more of the following measures:

- Reorient the affected device.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different branch circuit from that used by the affected device.

EMC Compliance

- FCC Part 15 Class B
- CE EN55022 Class B (1998) for conducted and radiated emissions

Immunity

EN 55022 lists the following requirements:

- IEC 61000-4-2 (1995) ESD
- IEC 61000-4-3 (1996) Radiated RF immunity
- IEC 61000-4-4 (1995) Electrical Fast Transient burst
- IEC 61000-4-5 (1995) Surge immunity
- IEC 61000-4-6 (1996) Conducted disturbances induced by RF
- IEC 61000-4-11 (1994) Voltage Dips, short interruption and voltage Variation immunity