

# PRIVARIS

SECURITY WITH PERSONAL PRIVACY

## **BPID™ LR Security Device**

### **USER MANUAL AND LICENSING AGREEMENT**



[www.privaris.com](http://www.privaris.com)

**Congratulations on receiving your new BPID™ LR Security Device.**

Record your device's unique address here:

\_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_ : \_\_\_\_

*The device address is found on the back of your device.*

*It is an 11 character string of letters and numbers separated by colons.*

**For optimal results and convenience using your device, it is important that you read this manual.** In addition to instructions for proper device usage, information is included on the device itself - how it works, its personal privacy features, troubleshooting guidelines, and answers to frequently asked questions.

**IMPORTANT. READ BEFORE USING**

FOR SUCCESSFUL DEVICE OPERATION FOLLOW THESE GUIDELINES:

- Ensure that fingers are free of excessive dirt or grease. Clean fingers with a tissue, or on a clean article of clothing. *You do not need to wash your hands prior to device use.*
- Always attempt to place your finger on the fingerprint sensor in the same position in which you placed it during the enrollment process - the Center Position.
- Never press hard or squeeze the device. Press just enough to make solid contact with the sensor.
- Always keep your finger flat and level with the device when placing it on the fingerprint sensor. The knuckle should never be raised or bent.

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## 1. WHAT IS A BPID™ SECURITY DEVICE?

### Overview

A BPID™ Security Device is a wireless, biometric personal identification device that provides identity verification using fingerprint biometrics. Because no two fingerprints are identical, biometric verification significantly heightens security levels by ensuring that the intended and authorized user of the device is the only person for whom the device will function.

The BPID™ device uses fingerprints to verify its user's identity before granting access to a specific resource. It works in much the same way that a remote control is used to operate a television or a garage door, but instead requires the authorized user's fingerprint to "unlock" and operate the device.

### Device Diagram

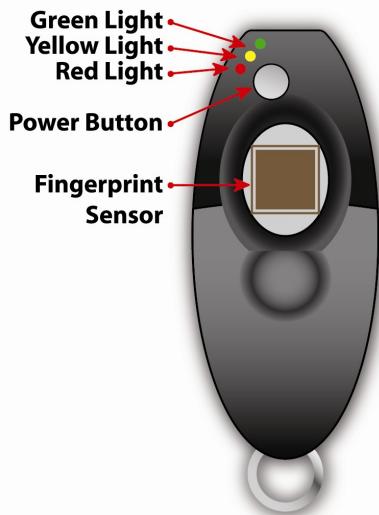


Figure 1: Front of Device



Figure 2: Back of Device

The BPID™ Security Device's design is simple and user-friendly. The device has four components:

**Lights:** A green, yellow and red light help to prompt the user through device operation and communicate to the user what mode the device is in.

**Power Button:** Turns the device on and off

**Fingerprint Sensor:** Scans a user's fingerprint and either grants or denies access to a particular resource.

**Battery Compartment:** Located under a sliding cover. The cover is removed using the battery release.

## Applications

The BPID™ Security Device replaces standard forms of identity verification. Examples of possible applications include the use of a BPID™:

- In place of a proximity (prox) card for access through a doorway or vehicle gate
- In place of a key to access a home, garage or automobile
- In place of a password to access a computer or network
- In place of a driver's license, passport, or corporate ID card to verify an individual's identity
- In place of a credit card to purchase items without having to swipe a traditional credit card or sign for the purchase.

## 2. USAGE INSTRUCTIONS

### Step 1: Activation

In order to activate a BPID™ Security Device you must be enrolled in the device. Enrollment is the device issuance process and is typically managed by an organization's issuing authority, such as the Information Technology Department, Security Office, or Human Resources Department. Enrollment initializes the device and "marries" it to its owner. During enrollment, users are asked to place their finger on the device several times in order for the fingerprint sensor to scan and securely store their print's features.

Once enrolled in a device, it is activated and ready for use.

### Step 2: Using Your Device

#### **FACILITY ACCESS (secured doorways or gated entrances):**

**Important:** To save time, verify as you *approach* the door reader rather than when you arrive. With the device's green light lit, keep your finger on the sensor and the device will remain active/green until you reach the access point.

1. Open the device's clear plastic flip-cover.
2. Click the round gray Power Button **once**.  
*-A blinking yellow light will indicate that the device is on and is awaiting a finger.*
3. With the yellow light blinking, place an enrolled finger on the device's fingerprint sensor to verify (in a position used during enrollment).  
*-A solid yellow light will indicate that the device is scanning your finger.*
4. A solid green light indicates that your fingerprint and your identity have been successfully verified.
5. With the green light still on, touch the tip of your device to the device reader located at the doorway or access point.
6. Your device will wirelessly transmit your programmed credentials to the access point.
7. Access to the facility is permitted.

8. Press the power button to turn off the device. If you forget, it will power off automatically after approximately 10 seconds.

## FACILTIY ACCESS: VEHICLE GATES

1. Open the device's clear plastic flip-cover.
2. Click the round gray Power Button **once**.  
*-A blinking yellow light will indicate that the device is on and is awaiting a finger.*
3. With the yellow light blinking, place an enrolled finger on the device's fingerprint sensor to verify (in a position used during enrollment).  
*-A solid yellow light will indicate that the device is scanning your finger.*
4. A solid green light indicates that your fingerprint and your identity have been successfully verified.
5. Your device will wirelessly transmit your programmed credentials through the car window to a transceiver outside of your vehicle
6. Access to the facility will be permitted.
7. Press the power button to turn off the device. If you forget, it will power off automatically after approximately 10 seconds.

## **BATTERY REPLACEMENT**

The BPID™ Security Device is powered by a CR2 lithium battery, the same type of battery used in many cameras. A replacement battery can be purchased at most camera stores, drug stores, or supermarkets.

### **Battery Level Indicators**

#### *Low Battery Indicator:*

A quick flashing red light upon start-up at the same time the yellow light comes on.

#### *Very Low Battery Indicator:*

A quick flashing red light upon start-up and then a flashing red light periodically throughout normal device usage.

#### *Critically Low Battery Indicator:*

A quick flashing red light upon start-up and then the device turns itself off automatically.

### **Changing the Battery**

1. Open the battery compartment on the back of the device by inserting the tip of a pen into the battery release (the small square at the bottom of the battery compartment) to pop the release and then slide the cover open (see Figure 2).
2. Remove the old battery.
3. Insert the new battery with the positive (+) end pointing toward the top of the device and ensure that it is secured tightly in the compartment. It should be touching the battery contacts at the top and bottom of the compartment.
4. Replace the battery cover by aligning it with the ridges of the battery compartment and sliding it back into position. Make sure that it is latched securely in place. A loud click is heard when properly closed.

Replacing the battery does not require the user to be re-enrolled.

### 3. SECURITY & PERSONAL PRIVACY

Key points related to the security of the BPID™ device and the user's personal privacy:

- All fingerprint processing is done within the device, so fingerprints do not have to be stored in any type of database, thereby protecting the user's personal privacy.
- The fingerprint is used only for identity verification. Neither the fingerprint nor its features are ever physically transmitted nor ever leave the device. The device wirelessly transmits only the credentials necessary for authorization and access (i.e., a facility entrance code, a password, or personal identity credentials).
- The fingerprint features stored on the device cannot be retrieved from the device.
- The device releases the programmed authorization only after the authorized user of the device applies an enrolled finger.
- The device's fingerprint sensor recognizes and rejects a fake finger or other attempts to fool the device. These techniques rely on the specific chemistry of the skin, which is not present in a fake finger.
- The device is a cryptographic services provider and supports two-way encrypted communications. Data can be encrypted on the device before it is released so that only the intended recipient can interpret the information.

## 4. HOW IT WORKS

The BPID™ Security Device has three functions: enrollment, verification, and transmission.

### Enrollment

Enrollment is the device activation and issuance process and generally occurs only once. It is what assigns or “marries” the device to its user. During enrollment, numeric representations of the unique features of a fingerprint (i.e. the ridges, valleys and whorls) are encoded and securely stored on the BPID™ device. The actual fingerprint is not stored on the device. The fingerprint features are encoded and securely stored so that the device will function only for its authorized user. Also during enrollment, the user’s credentials (e.g. a facility entrance code, a password, or personal identity document) are typically encrypted and wirelessly transferred and stored on the BPID™ device.

### Verification

After the initial enrollment process, each time a finger is placed on the BPID™ device, the device will attempt to match that print’s features to an originally enrolled fingerprint. This is the verification, or matching, process. A match is indicated by a green light and means that the user has been verified as the authorized owner of the device. If a user attempts to verify a non-enrolled finger, a match will not be found and access to the specified resource will not be granted. Failed verification attempts are indicated by a red light.

### Transmission

Upon verification, which is the matching of a live finger to the template of an enrolled finger, the BPID™ device wirelessly transmits the user’s credentials that were stored during enrollment (e.g. a facility entrance code, a password, or personal identity documents). The transmission is verification of the user’s identity. The credentials are transferred typically as an encrypted data stream, depending on the application. Only the authorized user’s finger can trigger the release of their credentials, and only the user’s credentials are transferred - the stored fingerprint is never transferred and never released from the device.

The BPID™ Security Device can store and transmit any number of user credentials including digital certificates. It supports both low frequency RFID and 802.15.4 wireless communication protocols for data transmission.

## 5. GENERAL TROUBLESHOOTING

### PROBLEM

*Difficulty verifying. Getting solid red light instead of a solid green light.*

Try the following, in order, until capture speed increases or a green light appears:

- Make sure you are using a finger that was enrolled.
- Wipe-off any excess dirt or grease from finger.
- Wipe-off the sensor with a clean finger, swiping it down the sensor twice to clean it.
- Make sure your fingerprint core is directly over the very center of the sensor in the Center Position, and **not** aligned with the bottom edge of the sensor. Remember the placement reference point given during enrollment and try to replicate it. Unless you have very small fingers, you will likely be covering all or a portion of the grey power button.
- Lift finger and replace it during verification, trying slightly different positions on and around the Center Position (core). Be sure to hold in place for 2 seconds before moving to a new position to give the device sufficient time to interpret your fingerprint.
- Too little or too much pressure may be being applied. While the sensor is scanning, increase the pressure for a few seconds, and then decrease it to find the right amount. On a scale of 1 – 5 (5 being the highest) pressure should equal about a “2.” Less than or greater than “2” can present recognition difficulties.
- Hold the device with only one hand, or just as you did during enrollment.
- Keep finger flat and level with the sensor. The knuckle should never be raised or bent.
- If still getting a red light, turn the device off and back on, and try verifying with a different enrolled finger.

## **PROBLEM**

*Device will not power on.*

1. Open battery compartment by inserting tip of pen into the battery release (see Figure 2).
2. Remove cover.
3. Remove battery.
4. Put the same battery back, making sure that it is secured tightly and properly aligned. It should be touching the battery contacts on the top and bottom of the compartment, and the positive (+) end should be pointing toward the tip of the device.
5. Replace the battery cover by aligning it with the ridges of the battery compartment and sliding it back into position. Make sure that it is latched securely in place. A loud click is heard when properly closed.

If the device still does not power on, replace the battery with a new one (see below).

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## **PROBLEM**

*Quick flashing red light seen anytime during operation OR a quick flashing red light and then device powers itself off.*

A flashing red light is an indication of a low or critically low battery.

1. Replace battery. The battery is a standard CR2 lithium camera battery. It can be easily replaced by inserting the tip of a pen into the battery release (see Figure 2) and pressing down to release the battery cover.
2. Remove the old battery and insert the new battery with the positive (+) end pointing toward the top of the device and ensure that it is secured tightly in the compartment. It should be touching the battery contacts at the top and bottom of the compartment.
3. Replace the battery cover by aligning it with the ridges of the battery compartment and sliding it back into position. Make sure that it is latched securely in place. A loud click is heard when properly closed.

Replacing the battery does not require the user to be re-enrolled.

## **PROBLEM**

*The device is blinking green instead of blinking yellow..*

If the device is blinking green it is enrollment mode and is ready to for an Enrollment Administrator to enroll a user in the device or to modify a configuration setting on the device. For the device to be in enrollment mode, the power button has to be held down for approximately three (3) seconds.

To put the device in regular use mode for doorway or gate access, turn off the device then press the power button once. The light on the device will blink yellow.

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## **PROBLEM**

*All three lights (green, yellow and red) are blinking quickly.*

Whenever all three lights on the device are blinking simultaneously, the device has entered its Safe Mode. This typically occurs when the power button has been held down for an excessive period of time.

To reset the device, simply press the power button to power off the device. Then power it back on by pressing and quickly releasing the power button. The device should now operate normally.

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## **PROBLEM**

*Device will not connect to a third party software application.*

If you were enrolled in the device by an issuing authority (your company or other) and subsequently attempt to install applications from software vendors other than Privaris that use the BPID™ device, you may experience connectivity problems with that application (error messages such as "unable to connect with device" or "communication with device failed"). If this occurs your device may have had a license key stored on it during enrollment. Please see your issuing authority to obtain the license key and permission to use it with the intended application.

## 6. FACILITY & GATE ACCESS TROUBLESHOOTING

### PROBLEM

*Seeing a green light and successfully verifying, but not being granted access to a doorway:.*

1. After a successful verification, with the green light lit, take your device and physically touch the tip of it to the reader at the facility access point. Try touching different points on the reader.
2. If still not working, try verifying again, but take the device to a reader at a different facility access point and try again.
3. If the device works at another access point, then there is a problem with the reader at the first access point. Report problem to issuing authority.
4. If the device does not work at either access point, it is likely a problem with your device. See the issuing authority for troubleshooting assistance with your device.

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### PROBLEM

*The device is blinking green instead of blinking yellow..*

If the device is blinking green it is enrollment mode and is ready to for an Enrollment Administrator to enroll a user in the device or to modify a configuration setting on the device. For the device to be in enrollment mode, the power button has to be held down for approximately three (3) seconds.

To put the device in regular use mode for doorway or gate access, turn off the device then press the power button once. The light on the device will blink yellow.

## 7. FREQUENTLY ASKED QUESTIONS

### **How do I turn on my device?**

Press and quickly release the round gray Power Button located on the front of the device. One click will ready the device for gate or doorway access.

### **How do I know when my device is ready for verification?**

A blinking yellow light indicates that the device is ready to accept a finger for verification. For facility access this occurs after you turn on your device. For computer/network access, this occurs after the computer has made a connection to your device.

### **How will I know if the device has successfully verified my fingerprint?**

A solid green light will display indicating a successful verification and you will be simultaneously granted access to the facility .

### **How much pressure do I need to apply with my finger?**

The sensor works best with enough pressure to make solid contact. Do not squeeze the device, and do not simply rest your finger on the sensor. On a scale of 1 – 5 (5 being the highest) pressure should equal about a “2.” Less or greater than “2” can present recognition difficulties. If your finger is on the sensor but the device is still blinking yellow, then you are not pressing hard enough.

### **What if I injure my finger?**

During enrollment at least two fingers will be enrolled in your device. So if you were to injure your primary finger, you'll have another to use as a temporary back up.

### **What if my device is lost or stolen?**

As soon as you discover your device is missing, contact your issuing authority and you should be supplied with a replacement device. You will have to be enrolled in your new device. And remember, your device is useless in anyone's hands but your own, so if it is lost or stolen, there is no concern that anyone else will be granted access with your device.

### **What happens if I drop my device?**

Your device is constructed to withstand most accidents. But like any electronic device, significant unintentional or intentional mishandling may render the device inoperable.

**Is my fingerprint stored on the device?**

No. Your fingerprint itself is not stored. Only numeric representations of unique features of your fingerprint (for example, specific ridges, valleys or whorls) are encoded and stored on the device in the form of a template. These numeric representations are used in the matching process that confirms you as the authorized user of the device, and cannot be used to regenerate your actual fingerprint.

**Is my fingerprint transmitted from the device?**

No. When your device matches your live fingerprint to your stored fingerprint template it wirelessly transmits a stored credential which confirms your identity. Your fingerprint is never transmitted. Neither your fingerprint nor its features can ever leave your device, and it is impossible to recreate your original fingerprint from the device.

**Can my fingerprint be faked and the security of my device compromised?**

The fingerprint sensor on your device uses sensing technology that allows it to reject a fake finger or other attempts to fool the device. The sensor actually looks beyond the surface of your finger at the inner layers of your skin where your fingerprint features are formed. These techniques rely on the specific chemistry of your skin, which is not present in a fake finger.

**Can my fingerprints be accessed from my device?**

No. The device does not permanently store your actual fingerprint. Numeric representations of specific unique features of your fingerprint are encoded and stored on the device and used in the matching process that confirms you as the authorized user of the device. These numeric representations cannot be converted into your actual fingerprint.

**Can a third party steal my credentials while they are being wirelessly transmitted to or from my device?**

Typically, all information sent to or from your device is encrypted. This prevents a third party from intercepting the information as it is transmitted. For some low frequency physical access applications, encryption is not an option; however the close proximity required for access significantly reduces the possibility of a transmission being intercepted without notice.

## **8. CUSTOMER SERVICE**

If the information contained herein has not answered your question(s) regarding your device, or to return defective products, please contact Privaris Customer Service at **(866) 213-8252**.

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