

PRECiSE™
BIOMETRICS

TACTIVO™ for iPhone 5S and iPhone 5
User Reference Guide



iPhone 5
16GB 32GB 64GB



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1. Introduction

Tactivo™ smart card and fingerprint reader makes strong authentication easy and convenient using a smart card, fingerprint, or both.

For more information on Tactivo and available apps, visit www.precisebiometrics.com.

2. General Information

Tactivo should only be used with iPhone 5S and iPhone 5s. It adds smart card and fingerprint functionality to an iPhone and should not be used for any other purpose. Although Tactivo covers a major physical part of the iPhone, it should not be considered a protective case.

Always keep the top cover of Tactivo connected when using the device.

Do not allow Tactivo to get in contact with water or other fluids. If this happens immediately disassemble Tactivo from the iPhone and let it dry thoroughly. Do not dry Tactivo using any external sources, such as hair dryers and microwave ovens.

Tactivo is designed to work in the temperature range 32-95°F (0-35°C) and can be stored in the range -4-113°F (-20-45°C)

Handling of Tactivo is the user's responsibility and any action that can damage the product is the user's own responsibility. Do not paint, drop or disassemble Tactivo and do not put it in places or in devices where it can be damaged such as in a clothes dryer.

Tactivo may contain small parts which may present a choking hazard for small children. Keep such parts away from small children.

3. System Requirements

Usage of Tactivo requires an iPhone 5S or iPhone 5 with iOS 7.0 or higher.

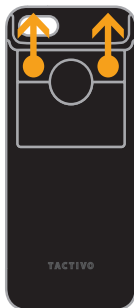
4. Card Reader

The card reader in Tactivo supports ISO 7816-4 compatible smart cards including US credentials PIV, PIV-I, TWIC, and CAC. Embossed cards are also supported. Do not use the card reader for other cards or for storage of other things such as business cards.

5. Installation

Always slide the iPhone in or out when connecting and disconnecting Tactivo. Bending while connecting or disconnecting might damage Tactivo and the Lightning connector to the iPhone.

1. Slide off the top cover.



2. Slide in your iPhone.



3. Slide on the top cover.



4. If you have a smart card, slide it in.



5. The first time you install Tactivo, you will be directed to available apps on App Store.

6. To disassemble, gently push in and up.



6. Maintenance

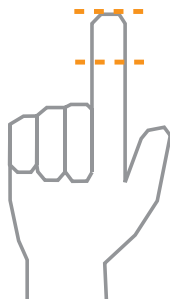
- Protect Tactivo[™] from any kind of physical damage. Tactivo should not be considered as a protective case for your iPhone.
- Ensure that you are electrostatically discharged before putting your finger on the sensor. High electrostatic discharges might damage the fingerprint sensor.
- Keep the sensor surface clean or there is an increased risk that the fingerprint can't be successfully matched.
- If necessary, clean the sensor surface with a clean cotton cloth. You can dampen the cloth slightly with a cleaner.
- Do not use paper tissues for cleaning purposes as they may scratch the surface.
- Do not spray cleaner directly onto the device.
- Do not use chlorine-based cleaners, non-chlorine bleach, or chlorine-based bathroom or mildew cleaners.
- Do not use any solvents, such as acetone, paint thinners, turpentine, etc.

7.1 Correct Finger Placement

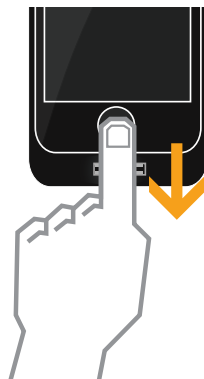
Correct and consistent finger placement is crucial for good performance.



1. Fingerprint sensor



2. Make sure to capture this area on you finger



3. Swipe your finger flat on the sensor in a firm downward movement



4. Do not rotate your finger and make sure it is not misaligned



5. Do not lift finger when swiping and do not use only the fingertip

7.2 Enhance Fingerprint Image Quality

If your finger is very dry:

- Try to press more firmly when swiping.
- Breathe on your finger.

If your finger is very damp:

- Try to press less firmly when swiping.
- Wipe your finger dry.

More tips

- See the “Maintenance” section to learn how to keep the sensor surface clean.
- If your fingerprint is still not recognized, please consider re-enrollment to get a better reference image.

8. Charging & Synchronizing

Your iPhone can be charged through a wall outlet using an AC adapter without disconnecting your Tactivo from the iPhone.

Your iPhone can be synchronized using Wi-Fi communication. If you want to use a cable for synchronization, Tactivo needs to be disconnected from your iPhone first.

Tactivo should be used exclusively with supported iPhone models. Do not connect it to any other device.

Do not bend or twist the micro USB cable while connected to Tactivo.

Only use approved iPhone chargers.

Do not attempt to use the Lightning connector-based docking stations without removing Tactivo from the iPhone.

Never force a connector into a port. This might damage the product.

9. Apps for Tactivo

The use of apps for Tactivo is entirely at the user's sole risk. Precise Biometrics has no liability whatsoever and disclaims all responsibility for the usage of apps for Tactivo.

10. Electromagnetic Compatibility

Electromagnetic compatibility (EMC) is the ability of electronic equipment to function properly together in the electronic environment.

CE Notice (Europe)

Tactivo meets the following technical standards:

- EN 301 489-1:2011
- EN 61000-4-2:2008
- EN 55022:2006 – A1:2007
- EN 61000-4-3:2006 – A1:2008

FCC Information (USA)

Tactivo for iPhone 5S and iPhone 5 (P/N SAA 123 1005) complies with Part 15 (Class B) of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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11. Environment

- RoHS compliant
- WEEE compliant
- The top cover is recyclable plastics
- The black bottom piece should be recycled as an electrical waste