



TCS511

Product Manual

Version 1.0

Bluetooth Fingerprint Reader

Techshino[®]

Techshino Technology Co., Ltd.

Product Manual

Product Introduction & Structure

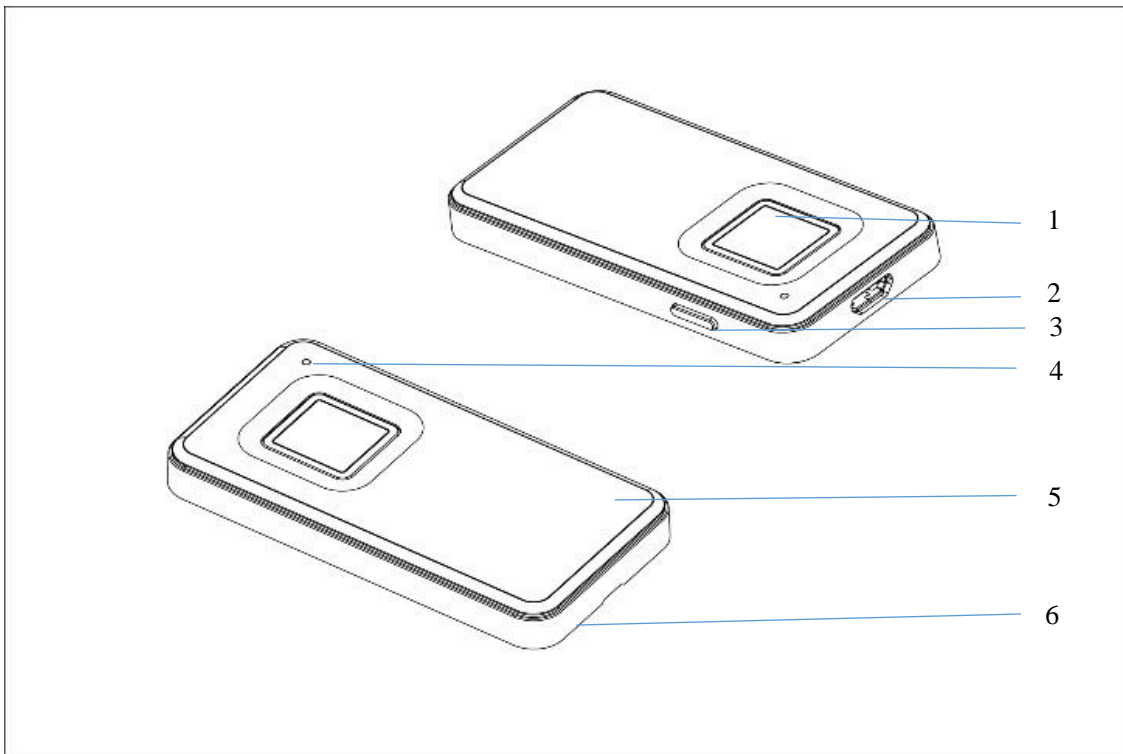
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Bluetooth fingerprint device is an intelligent fingerprint reader from Techshino Technology. It can be connect via bluetooth with smart phones, tablets and other mobile devices. In addition, by using the network communication function of the smart phone, the bluetooth fingerprint device can connect to fingerprint identification platform to perform fingerprint collection, identification and authentication.



Product Structure



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Structure & Specifications

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Structure Description:

- 1-Fingerprint collection area/sensor surface, to collect fingerprint.
- 2-Micro USB interface, for device charging.
- 3-Power button.
- 4-Battery indicator, to indicate battery level of Bluetooth fingerprint device.
Red light indicates low battery, orange light means medium battery and green light means enough battery. When the device is on, the indicator shows different colors based on battery levels.
- 5-Device front cover
- 6 -Device back cover

Specifications

Basic Specification	Start-up Time	1.5s
	Working Hours	>6h
	Working Voltage	Single lithium battery 3.7V
	Working Current	Up to 40mA
	Size (mm)	62.78*32.28*8.4
	Material	PC+ABS
	Use Mode	Handheld
	Weight	~ 25g
Functions	Connection	Bluetooth
	Functions	Fingerprint capture

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Sensor	Type	Capacitive
	Life Time	> 1 year
	Capture Area	9.6*9.6mm
	Image Pixels	192*192pixel
	Image Resolution	508DPI
Communication		Bluetooth 4.0 (BR/EDR,no BLE)
Charging	Interface	Micro USB
	Electric Current/Voltage	200mA(>=)/5V
	Charging Hours	2h
Operation	Temperature	0~50
Conditions	Humidity	10~90

Product Usage

For the first time usage, the Bluetooth fingerprint device needs to call the Bluetooth binding function to connect to mobile terminal which has Bluetooth function. After successful connection, the device shall receive host computer command, then lightly touching the fingerprint sensor to finish fingerprint collection and identification.

Note: Bluetooth binding default password is 1234.

Device Power On/Off

Power On: Press the button for 1.5s, after indicator light is on for 2s, the device is powered on.

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Light Indicator Status

When the host computer has a fingerprint operation, the green light flashes to press fingerprint. If collect fingerprint successfully, the green light is on for 2 seconds; if the fingerprint collection is timeout, the orange light is on for 2 seconds.

Charging Indicator

When a USB cable is plugged into the device, the device it starts charging and the indicator light is on. (The device will be automatically turned on and the indicator will show different color depending on the current battery level.), When the light turns green, the device is fully charged.

Device Sleep Mode and Auto Wakeup

If there is no device operation within 3 minutes, the device will automatically switch into sleep mode, the Bluetooth function will be turned off, and the mobile phone cannot detect Bluetooth fingerprint device. To wake up the device, press the power button or the fingerprint sensor, then the indicator lights (different color will be shown depending on the current battery level) and the device wakes up, which also triggers the Bluetooth module so that mobile phone can communicate with the Bluetooth fingerprint device.

Precautions

1. Please properly keep the device, avoid scratching the collection area/sensor surface with hard materials or sharp objects.
2. Avoid block or damage micro USB interface, OR the device cannot be charged.
3. Please charge the device while battery is low.

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4. Please do not expose the device to liquids or humid environments while it is charging.
5. Please do not expose the device to too high or too low temperature environment.
6. Please do not exposure the device to direct sunlight.
7. Please do not put the device close to fire.
8. Please do not misuse the Bluetooth fingerprint device, such as: drop, disassemble, crush, puncture, baking, burning, soak etc.
9. Please do not allow children to play, small parts may cause choking.

Do not disassemble the device. In case of device failure, please contact the customer service representatives.

Product Packing List

Bluetooth fingerprint device: 1

USB cable: 1

Certificate: 1

Product Manual: 1

Warranty Card: 1

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 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

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the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

For more information, please visit www.techshinobiometrics.com