Tera P172 Handheld Android Barcode Scanner User Manual

Contents

Tera P172 Handheld Android Barcode Scanner

- Please do not hesitate to contact us if you have any questions.
- **Important Notice:** Please include your Order Number and Product Model Number in the email.
- **Official Customer Service Email Address: info@tera-digital.com**
- **Cell:** +1 (909) 242-8669
- **Whatsapp:** +1 (626) 438-1404
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Chapter 1 About the Terminal Features

About the Terminal:

PI 72 is a handheld industrial data terminal built on Android 11 that delivers real-time connectivity and advanced data capture. It comes equipped with fast Wi-Fi connectivity with a WLAN 802.11 a/b/g/n/ac radio, Bluetooth wireless radio technology integrated near-field communication technology, and a USB Type C connector for bathing charging and communication use. With an 8000mAh battery and an ergonomically balanced design, the PI 72 data terminal helps keep material flowing smoothly all day long even during peak season. It's ideal to

increase productivity in retail, pickup and delivery, and field service applications.

Mobile Terminal Features

1. RGB LED
2. Light Sensor, Distance Sensor
3. Front Camera
4. Menu Button
5. Home Button
6. Back Button
7. Trigger
8. Scan Button
9. SIM/TF Card Slot
10. Scan Engine
11. Top Camera, Flashlight
12. Power Button
13. Setup Button

Buttons and Description

SIM/TF Card Tray

Power Button

Setup Button

Scan Button

Front Buttons

Button		Description
Side	Power Button	Press and release the Power Button to
Buttons		turn on/off the terminal screen.
		Press and hold the button for approximately
		3 seconds, and then release to view the options menu
		. Power Off
		. Restart
		. Emergency
	Setup Button	Users can customize the function of the button.
	Scan Button	Press the right or left Scan Button to trigger the scanner.
Front Buttons	Menu Button	Press the Menu Button to check menu options.
	Home Button	Press the Home Button to go to the Home Screen.
	Enter Button	Press the Enter Button to save changes.
	Back Button	Press the Back Button to return to the previous screen

About the Battery

Do not leave batteries unused for extended periods of time, either in the product or in storage. When a battery has been unused for 6 months, check the charge status and charge or dispose of the battery as appropriate.

- **Expected battery life:**
  retain up to 80% of its original capacity at 300 complete charge cycles when operating under normal conditions. A charge cycle is the process of charging a rechargeable battery and discharging it as required into a load. As lithium-ion batteries chemically age, the amount of charge they can hold diminishes, resulting in shorter amounts of time before a device needs to be recharged.
- **Battery Storage:**
  Charge or discharge the battery to approximately 50% of capacity before storage. Charge the battery to approximately 50% of capacity at least once every six months. Remove the battery and store it separately from the product. Store the battery at temperatures between 5°C~20°C (41 ° F~68° F)
- **Caution:**

Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C {140° F}, or incinerate.

Chapter 2 Install Cards & Charge the Terminal

Install a MicroSD Card/SIM Cards

This model comes with a hybrid dual SIM card tray. You may either use two nano SIM cards simultaneously or use just one nano SIM card and a microSD card to increase file storage capacity.
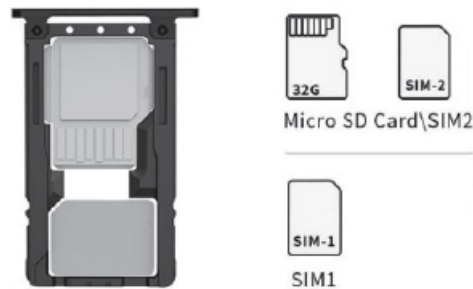
Charge the Terminal

This device is equipped with a USB Type-C port. It is advised to charge the terminal with the original USB cable and power adapter.

1. Connect the USB cable to the power adapter and connect to the terminal.
2. The terminal starts to charge automatically. The LED Indicator indicates the charge status.
   (**Red and Green:** Charging; Solid Green: Charging Complete.) You may also use the original USB Type-A to USB Type-C cable to charge the terminal from a host device (e.g. laptop or desktop computer). The connected host device must supply a minimum power output of 5V, 0.5A to the terminal.

**Note:** Do not charge the terminal with a third-party cable or adapter

Chapter 3 Use the Phone

Make a Phone Call

Once the phone is activated, you can make a phone call.

1. Tap in the favorites tray to open the phone app.
2. Use one of the methods below to enter the telephone number you want to call.
   - Tap and use the on-screen dialer .
   - Select a person on your saved contact list .
   - Select a favorite on your speed dial list .
   - Select a number from the recent calls list .
3. Tap call

4. To end the call, tap 📞
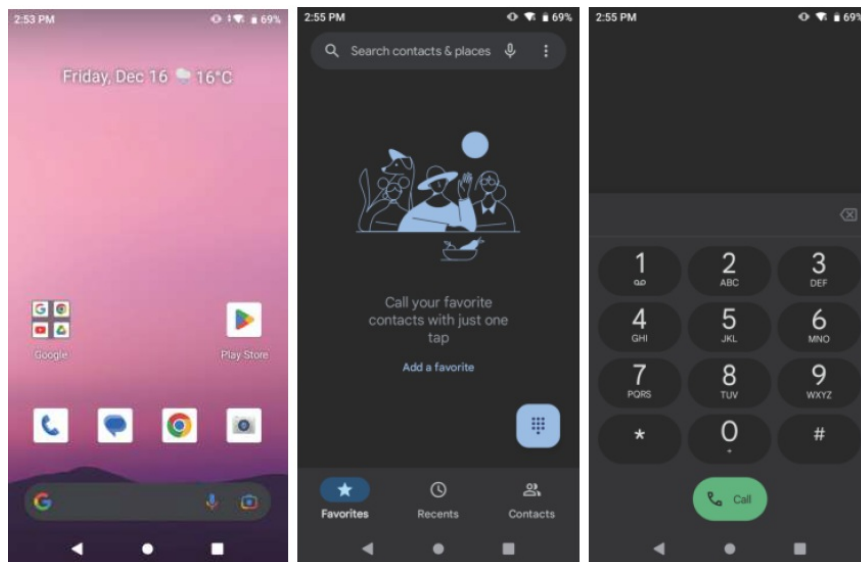
Create and Save a Contact

1. Tap 👥 to create new contact.
2. Tap the lighter text "Create new contact"
3. Choose where to save. You may save the contact to the device or to your Google account.
4. Fill the profile and tap "Save".
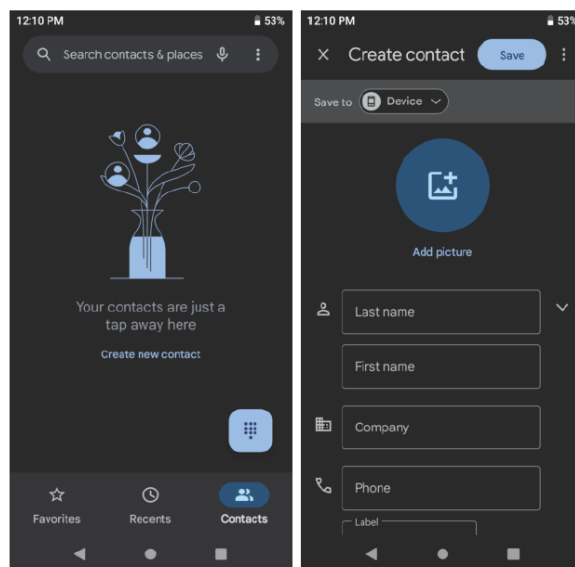
Send a Message

1. Open the Messages app 💬
2. Tap Start Chat.
3. In "To," enter the names, phone numbers, or email addresses that you'd like to message. You can also pick from your top contacts or your whole contact list.
4. Tap the message box.
5. Enter your message.

6. When you're done, tap Send ➤ .
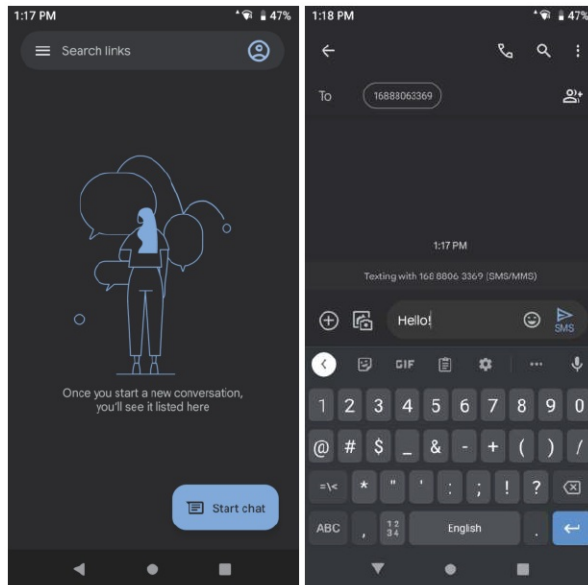
Chapter 4 AppCenter (A Hardware Diagnostic Tool)

Scan Engine Test.

- Swipe up from the bottom of the Home screen to access all apps.
- Tap AppCenter> Barcode2D>SCAN
- Choose one of the options:
    - **Compare:**
    When set into compare, the scanner scans until a barcode is read or until the trigger is released.
    - **Auto:**
    When the scanner is set into Auto,the scan engine remains on all the time to continuously scan barcodes.
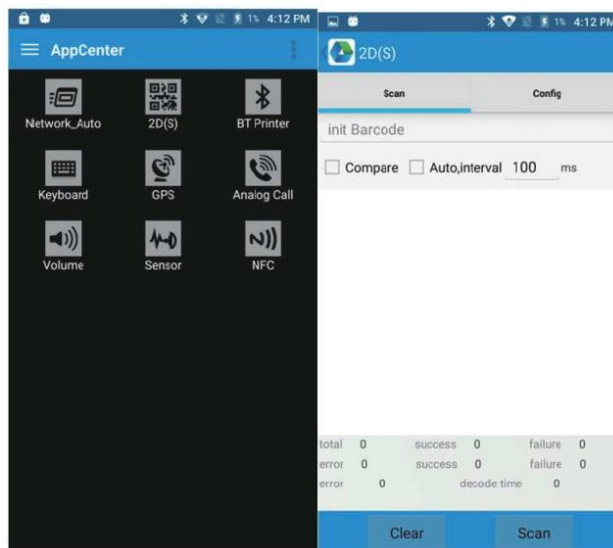
Ping Network Test

- Swipe up from the bottom of the Home screen to access all apps.

- Tap AppCenter> Network_Auto
- Type the IP address you'd like to ping and tap start.
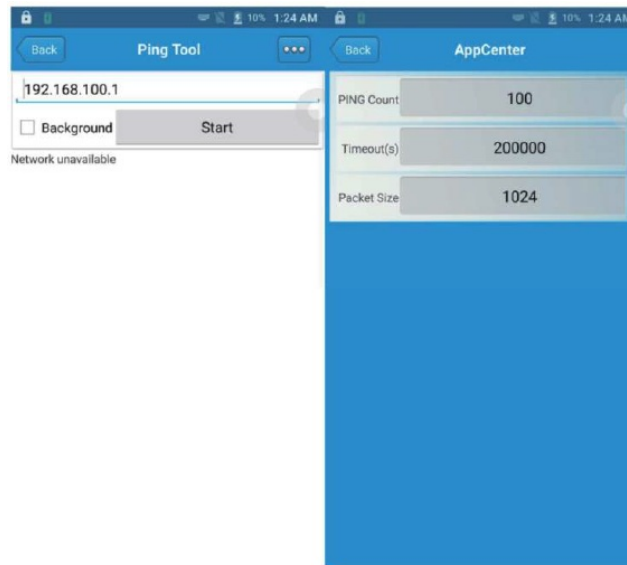
Bluetooth Printing Test

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap AppCenter> BT Printer
3. Tap Not Connected.
4. Tap Scan to pair new device.
5. Enable Bluetooth on your Bluetooth-enabled Printer and set it to be discoverable.
6. Tap the Printer that appears in the available devices list.
7. Return back to the original interface and tap Print.
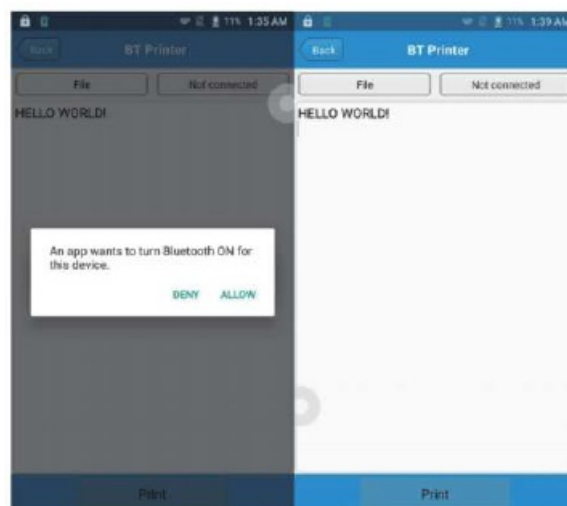
GPSTest

- Swipe up from the bottom of the Home screen to access all apps.
- Tap AppCenter> GPS (If the GPS is disabled, you should enable it first)

NOTE: GPS accuracy varies depending on the number of visible GPS satellites. Locating all visible satellites can

take several minutes, with accuracy gradually increasing over time.
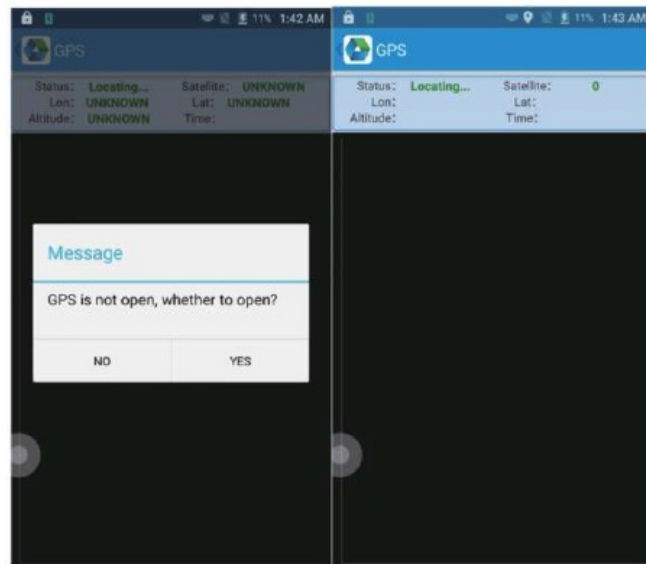
Speaker Test

- Swipe up from the bottom of the Home screen to access all apps.
- Tap AppCenter> Volume
- Manipulate the sliders left or right to specify how loud of these features.

Sensors Test

- Swipe up from the bottom of the Home screen to access all apps.
- Tap AppCenter> Sensor
- Select Auto to test the charge status LED indicator.
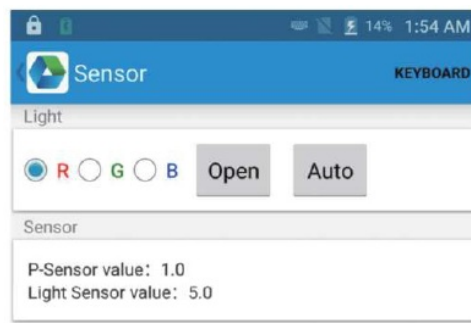
Keyboard Test

- Swipe up from the bottom of the Home screen to access all apps.
- Tap AppCenter> Keyboard
- Press the buttons on both sides except the power button.
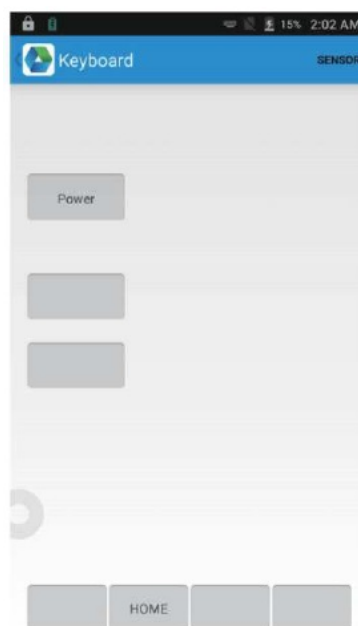
Chapter 5 Change the Scanner Settings.

To change the settings of the barcode scanner, you need to lanuch the Keyboardemulator application.There are four tabs in the keyboardemulator app and several hidden features.

Function Tab

1. Tap the checkbox in front of Barcode2D option.
2. Toggle the Enable Scanner Swtich to On position.
3. Press the trigger on the handle or side buttons to scan.
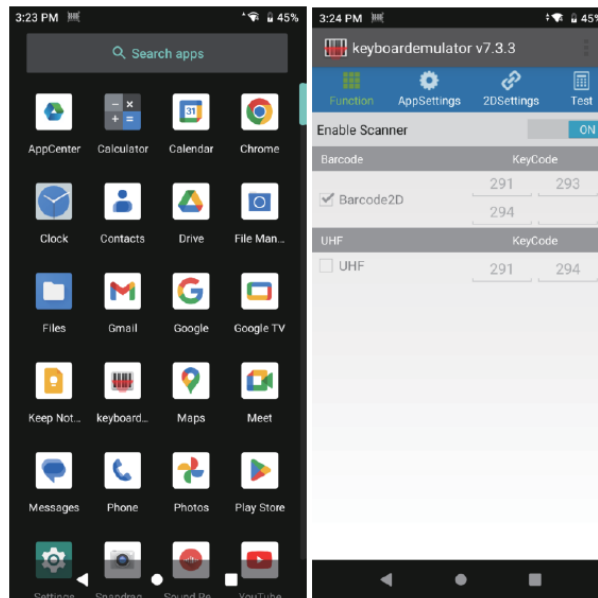
- **APPSettings Tab**

  There are 9 basic settings in this section. You may enable or disable them in accordance with your needs.

- **Scan Modes, Sound, Vibration and Parsing**

  Tap the ON/OFF swtich to enable/disable the options.

Proccess mode

To apply the option to the scanner, tap the round checkbox in front of the option.
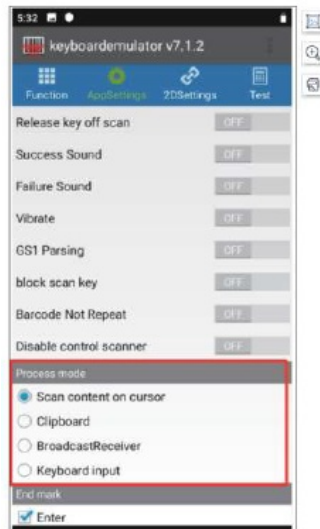
Scan content on cursor. the scanned data will be transmitted where the cursor is. Clipboard: the scanned data will be transmitted to clipboard and you can paste it anywhere you need. broadcastReceiver. the scanned data will be transmitted via broadcast intent. Keyboard input: the scanner will input the scanned data as if it were typed.

End mark

- An end mark is equivalent to a terminator/ a termination suffix.
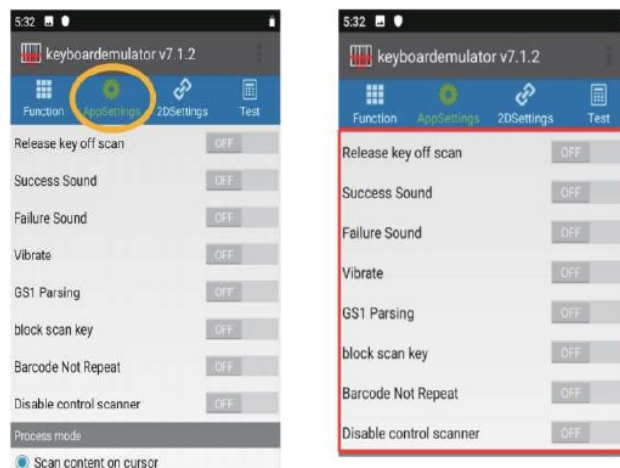- Tab the checkbox in front of an option to apply it as an End mark.
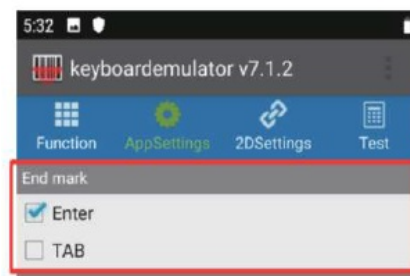
- **Enter:** If Enter is selected, the application will add an Enter after each scan.
- **TAB:** If TAB is selected, the application will add a tabulator after each scan ..
- **Space:** If SPCE is selected, the application will add a space after each scan.

Data format

For the barcode scanner to scan barcodes correctly, the data format option on the barcode scanner must match the encoding type of the barcodes.
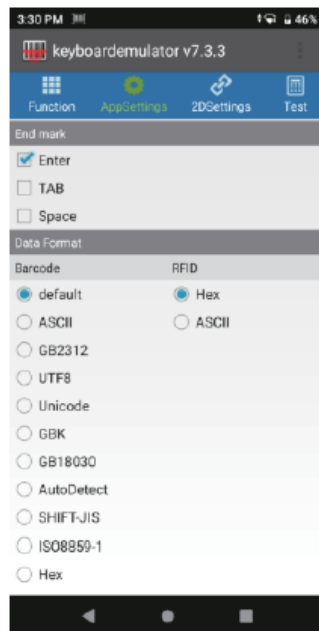
Data Editing
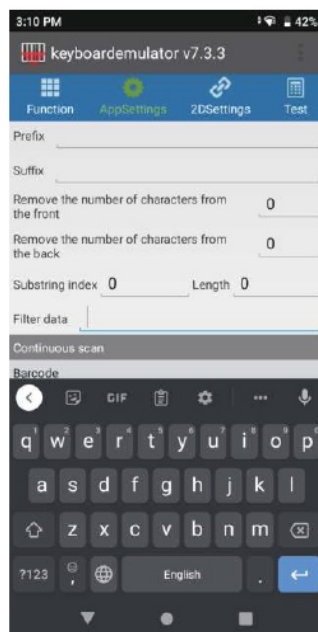
- To add a prefix, just type the desired characters in the empty text field behind the option. For example, to program a A sign as a peflx, just type the A sign in the empty test field.
- To add a suffix, just type the desired characters in the empty text field behind the option. For example, to program a A sign as a suffix, just type the A sign in the empty text field.
- To remove characters from the start of a barcode, just type the desired digit in the empty text field behide the option. For example, if you need to drop the first 2 digits of a barcode, just type 2 in the text field behind the Remove the front number of characters option.
- To remove characters from the end of a barcode, just type the desired digit in the empty text field behide the option. For example, if you need to drop the last 7 digits of a barcode, just type 7 in the text field behind the Remove the back number of characters option.
- To send only the defined characters from the data in a barcode, you should select the number of characters in accordance with the length of the bar code which has to be amended. First, type the position from which the scanner retain the reset characters; second, type the desired length in the empt text flied behind the Length

option.

For example, if you have the following barcode: "69704797 4517 4", and you just want the middle part of the code, say, 70479, you should type 2 into the Substring Index field, then type 5 into the Length field. The letter 2 and 5 tell the program to remove the first 2 characters of a barcode and retian the next 5 characters. If you type 5 in the index field and 6 in the length field, the output will be 797 451.

- To remove specified character(s), just type the character(s) into the empty text field behind the Filter data option. (For example, if you have the following barcode: "69704797 4517 4" , you can make the output "670477 4517 4" by typing the numeric letter 9 into the text field or make the output" 604797 4517 4" by typing the numeric letters 97 into the text fled I.
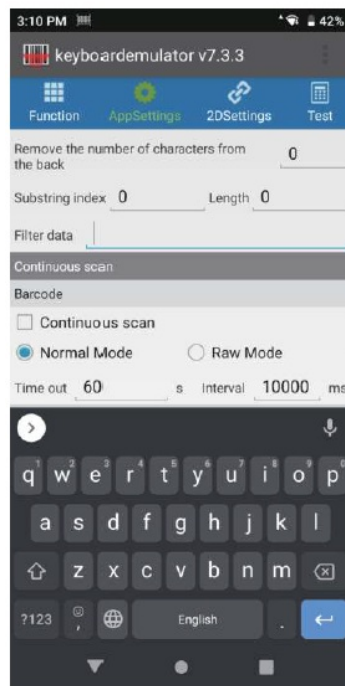
Continuous scan

When the checkbox in front of Continuous Scan text is selected, the scanner will work continuously. (Please note that this option will only work when the scanner is set up to Scan on Release Mode.)
In this section, there are two options available.

- **Normal Mode:** In this mode, you can change both timeout and inerval periods.
- **Raw Mode:** In this mode, the interval duration is fixed and cannot be adjusted.
- **Timeout:** The amout of time in milliseconds that the scanner will stop scanning if a readable barcode is not found.
- **Interval:**
  - The time period in milliseconds before the canner can read the next barcode.
  - (Please note that these two paramenters are only valid when the scanner is Continuous Scan Mode.)
  - To stop the scanner from scanning continuously, tap the checkbox in front of Continuous San text.

Virtual scan button
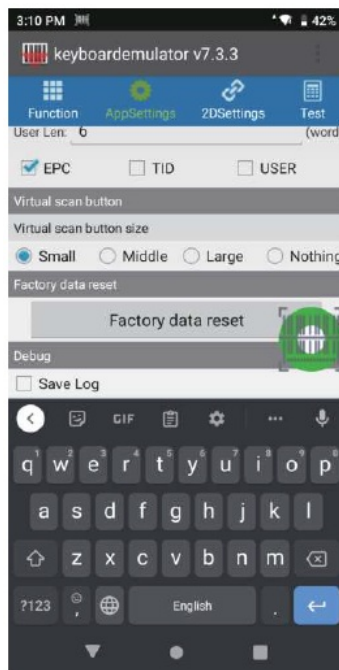
To enable the virtual scan button, select Small, Middle or Large. If Nothing is selected, the virtual scan button will be disabled.

- **Factory data reset**

  If you wish to reset the keyboardemulator application settings, please tap the Factory data reset button.

- **Save log**

  If you select Save Log, all the events that have occurred within the keyboardemulator will be saved as a file.

  You canfmd the file by locating the File Manager>Scanner>Data.

- **Dsettings Tab**

  Barcode Input options within the 2DSettings section specify the device hardware to use for scanning and the decoders to be applied on the acquired data before sending it for processing.

- **Base settings**

  There are a load of settings available in this section.
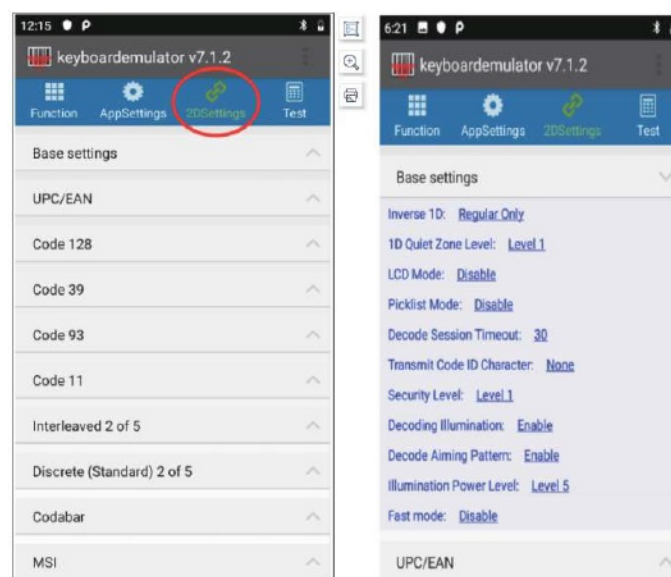
Inverse 1 D: This parameter sets the 1 D inverse decoder settings.

Options are:

- **Regular Only –** the digital scanner decodes regular 1 D barcodes only.
- **Inverse Only –** the digital scanner decodes inverse 1 D barcodes only.
- **Inverse Autodetect –** the digital scanner decodes both regular and inverse 1 D barcodes.
- **1 D Quiet Zone Level:** This feature sets the level of aggressiveness in decoding barcodes with a reduced quiet zon(the area in front of and at the end of a barcode), and applies to symbologies enabled by a Reduced Quiet Zone parameter.
- **Options are:**
  - Level O – The decoder will perform margin decoding as usual.
  - Level 1 – The decoder will perform more aggressively.
  - Level 2 – The decoder requires only one side end of barcode.
 - Level 3 – The scanner decodes anything in terms of quiet zone or end of barcode.
- **LCD Mode:** This feature enhances the ability of the scanner to read barcodes from LCD displays such as cellphones (applies to Scan Module only). Use of LCD mode might lead to performance degradation and a blinking reticle prior to decoding.
- **Picklist Mode:** This mode enables the digital scanner to only decode barcodes aligned under the LED aiming dot. It allows users to easily select and scan a single barcode from a field of barcodes.
- **Decode Session Timeout:** This parameter sets the maximum time decode processing continues during a scan attempt.
- **Code ID:** A Code ID character identifies the code type of a scanned barcode.

TEST Tab

This section contains a text field for the scanned data to be inputted in. To check the scanned data, please switch the keyboardemulator interface into Test.

More Settings

Tap ▓ to access QR code – WIFI, QR code – ScannerConfig, Black white list, Refresh log and Barcode Test.
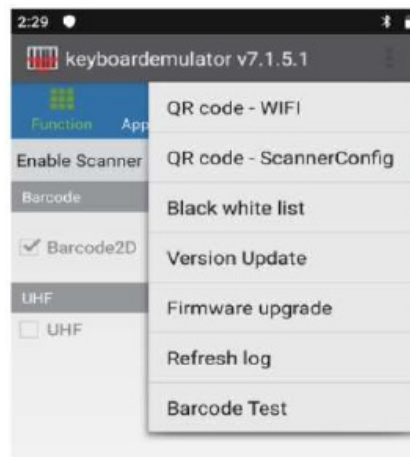

QR code-WIFI

This options allows users to share the Wif-Fi network by creating a QR code using the SSID and password that

have just been entered.

QR code-ScannerConfig

This option generates a QR code that contains all the settings of the keyboardemulator. If you have another data terminator and you wish to copy the keyboardemulator settings, you may scan the QR code to get it done quickly.
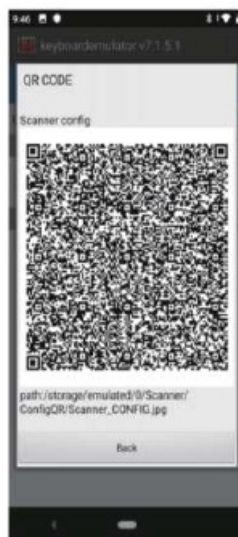
Blacklist & Whitelist

- **Blacklist:** When you select blacklist, there will be a list of applications where the scanner can work. For instance, if you add Chrome into the blacklist by tapping the checkbox behind the Chrome icon, the scanner will not transmit scanned barcodes into Chorme.
- **Whitelist:** Similar to blacklist, when you select Whitelist, there will be dialogue box showing the applications relevant to keyboardemulator, if you add Chrome into the Whitelist by tapping the checkbox behind the Chrome icon, the scanner will be able to transmit scanned data into Chorme.
- **Disable:** If you don't need to enable either Blacklist or Whitelist, please select Disable.
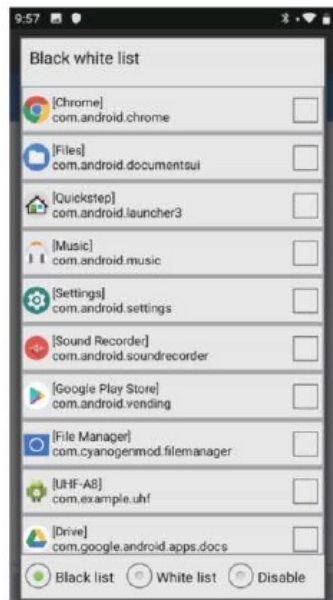
- **Version Update**

  This feature is not available at the moment.

- **Firmware upgrade**

  This feature is not available at the moment.

- **Refresh log**

  Tap to refresh the event log.
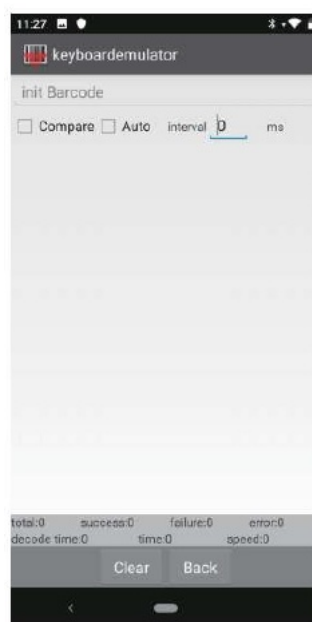
Barcode Test

- **Compare:** When set into compare, the scanner scans until a barcode is read or until the trigger is released.
- **Auto:** When the scanner is set into Auto.the scan engine remains on all the time to continuously scan barcodes.

Appendix: Specifications

Mechanical
Dimensions: l 64.2×80.0x24.3mm / 6.46×3.l 5×0.96in
Weight: 458g/16.2oz
Display Size: 5.2-inch
Resolution: 1920*1080 Full High Definition
Buttons: 4 Function Buttons, 2 Scan Buttons, Power Button and Setup button
Battery: 8000mAh Li-ion Battery
SIM Card Tray: 2 Nano SIM Card Slots/1 Nano SIM Card Slot and 1 microSD Slot
Audio: 2 Microphones, 1 Speaker
Camera: 13-megapixel camera, auto-focus(flash light)

System Architecture
CPU: MT6765V/CB Octa-core 2.3GHz Processor
Operating System: Android 11
Memory: 3GB RAM; 32GB Flash
Interfaces: USB Type-C
Storage Expansion: MicroSD (Up to 128GB)

Environmental
Operating Temperature: -20°C to 50 °C / -4°F to l 22°F
Storage Temperature: -20°C to 70 °C / -4°F to l 58°F
Humidity: 5%RH-95% (Non-condensing)
Drop: Operational after several drops to concrete at room temperature from 1.5m / 4.92ft
Environmental Sealing: IP65

	Wireless Connectivity
WAN	2G: GSM850/GSM900/DCS1800/PCSl 900 3G: CDMA2000 EVDO: BC0 WCDMA: Bl, B2, B4, B5, B8 TD-SCDMA:A/F 4G:Bl,B2,B3,B4,B5,B7,B8,B12,B17,B20,B28A,B28B,B34,B38, B39,B40,B41
WLAN	IEEE 802.11 a/b/g/n/ac
WPAN	Bluetooth 5.0

	Data Collection
Scan Engine	2D CMOS Imager
RFID	Integrated Near Field Communication 13.56MHz

FREQUENTLY ASKED QUESTIONS

What is the Tera P172 Handheld Android Barcode Scanner?

The Tera P172 Handheld Android Barcode Scanner is a mobile device designed for scanning and decoding barcodes, equipped with an Android operating system for versatile applications.

How does the Tera P172 Barcode Scanner work?

The Tera P172 Barcode Scanner uses an integrated camera or laser to capture barcode data, and the Android OS allows for processing and transmitting the scanned information to connected systems.

What types of barcodes can the Tera P172 Scanner read?

The Tera P172 Scanner is typically capable of reading various barcode types, including 1D and 2D barcodes such as QR codes, UPC, EAN, and more.

Is the Tera P172 Scanner suitable for retail applications?

Yes, the Tera P172 Scanner is commonly used in retail environments for tasks like inventory management, price checking, and point-of-sale operations.

Can the Tera P172 Scanner be used in warehouse and logistics?

The Tera P172 Scanner is well-suited for warehouse and logistics applications, including package tracking and inventory control.

Does the Tera P172 Scanner support wireless connectivity?

Many Tera P172 Scanner models offer wireless connectivity options such as Wi-Fi and Bluetooth for data transmission and integration with other devices.

Is the Tera P172 Scanner durable and rugged?

The Tera P172 Scanner is often designed to be rugged and durable, with features like drop resistance and protection against dust and water.

What is the operating system on the Tera P172 Scanner?

The Tera P172 Scanner typically runs on the Android operating system, which allows for flexibility and customization of software applications.

Can the Tera P172 Scanner be used for asset tracking?

Yes, the Tera P172 Scanner can be used for asset tracking applications, making it easy to manage and monitor valuable assets within an organization.

Is technical support available for the Tera P172 Scanner?

Many manufacturers offer technical support and customer assistance for the Tera P172 Scanner to address setup, usage, and troubleshooting.

Can the Tera P172 Scanner be integrated with inventory management software?

Yes, the Tera P172 Scanner can often be integrated with inventory management software and other business systems for seamless data synchronization.

What is the battery life of the Tera P172 Scanner?

The battery life of the Tera P172 Scanner may vary by model, but it is typically designed to provide all-day use on a single charge.

Can the Tera P172 Scanner be used for mobile data collection?

Yes, the Tera P172 Scanner is suitable for mobile data collection tasks, such as surveys, field inspections, and data capture on the go.

What is the warranty for the Tera P172 Scanner?

The warrantie typically range from 1 year to 2 years.

Is the Tera P172 Scanner user-friendly?

The Tera P172 Scanner is designed to be user-friendly, with an intuitive interface and easy-to-use scanning capabilities.

Can the Tera P172 Scanner be used in healthcare applications?

Yes, the Tera P172 Scanner can be utilized in healthcare settings for tasks like patient identification and medication verification.

VIDEO PRODUCT OVERVIEW

▶ 00:00 ━━━━━━━━━━━━━━━━━━━ 00:00 🔊 ⛶