Model: HW0016

Wireless UHF 2D Area-imaging Barcode Scanner

User Manual

Ver.01.1.01

Updated & Multilingual User Manual online:
https://www.tera-digital.com

Please do not hesitate to contact us if you have any questions.

Customer Service
Email Address: info@tera-digital.com
Phone Number: +1 (626) 438 - 1404

Note:
When contacting the Tera support, please have the following information available:
Serial number of the unit (found on manufacturing label)
Model number (found on manufacturing label)

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https://www.tera-digital.com

Charging Instructions

Please Read Before Charging

Power Requirements :
This scanner charges by sitting on the charging station. The charging station should only be connected to a 5V/1A power source. It is essential to use a power source that provides a stable 5V/1A output. Using a power source with higher voltage or amperage may damage the device and void the warranty.

Charging with the Charging Station :
1.Connect the charging station to a known working USB 3.0 port on your computer using the provided USB cable.
2.Place the scanner on the charging station to begin charging.
Avoid using charging sources that do not meet these specifications, as this could lead to slow or insufficient charging, or potentially damage the device.

Charging Safety :
- Do not modify or tamper with the USB cable or charging port on the charging station.
- Ensure the charging station is securely connected to the power source.
- If using a USB wall adapter, ensure it is from a reputable brand and meets the required 5V/1A output.
- Keep the charging area well-ventilated and free from flammable materials.
- Always unplug the USB cable from the power source when the scanner is not in use.

Failure to follow these guidelines could damage the device and void the warranty. Our company is not responsible for any damages caused by the use of incompatible power sources.

Connect the Device

Connect with Charging Station

1. Press the button to turn on the scanner.
2. Connect the charging station to the computer by plugging the USB cable into the charging station first, then connecting the other end to a USB 3.0 port on the computer.
(If the scanner emits five beeps after scanning a barcode and nothing appears on the computer screen, please have the scanner seated in the charging station and leave it charging for 2 hours. If the scanner emits three beeps after scanning a barcode and nothing appears on the computer screen, please follow the instructions in the “Pair the Scanner with its Charging Station” section to re-establish the connection.)

Once connected, the computer’s operating system will automatically install the necessary drivers. If you are using a Windows PC, you can verify this by checking if the scanner appears under "Keyboard" in the Device Manager as a keyboard icon. The device is plug-and-play and can be tested immediately in any text document application (e.g., Notepad, Microsoft Word, Excel).

About the UHF Module

To scan UHF labels, the scanner must be in UHF scan mode, with the UHF indicator showing a solid green light. To scan a RFID label, please press the trigger. The acquired data is transmitted to the location of the cursor. To receive the data, an active text field must be available on the host device.

Need Support?

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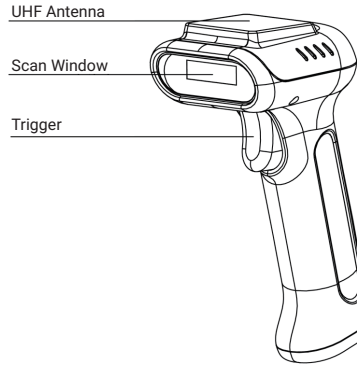
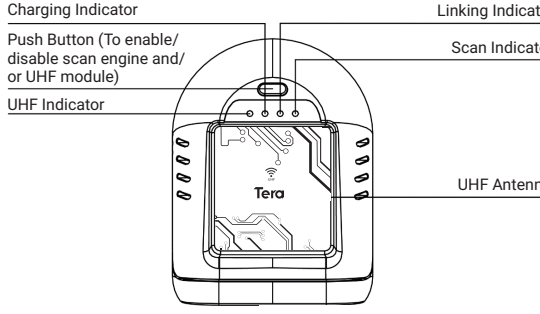
Features





LED Sequences and Meaning

The scanner has 4 LEDs on the top of the unit that indicate the linking status, scan engine state, UHF module state and battery condition.

LED Indication	Cause
Charging Indicator is solid red	The battery is charging.
Charging Indicator is off	The battery is not charging.
Linking Indicator is blinking	The scanner is in pairing state.
Linking Indicator is solid blue	The scanner is connected to the host device.
Linking Indicator flashes once	Successful Scan
Scan Indicator is solid blue	The scan engine is enabled.
Scan Indicator is off	The scan engine is disabled.
UHF Indicator is solid green	The UHF module is enabled.
UHF Indicator is off	The UHF module is disabled.

Factory Reset

If you aren't sure what programming options are in your scanner, or you have changed some options and want to restore the scanner to factory default settings, scan the barcode below.

Restore Defaults

Software Version

Scan the bar code below to output the current software version of the scanner.

Show Software Version

Beeper Volume

The beeper volume codes modify the volume of the beep the scanner emits on agood read. Default = Medium.

High

Medium*

Low

Mute

Battery Level

To check the remaining battery level, please scan the following barcode. Ensure your cursor is in a text field when scanning.

Show Battery Level

Vibration

The scanner vibrates once when a barcode is successfully read. If you don't want the scanner to vibrate, please scan the “Vibration Off” barcode.

Vibration On*

Vibration Off

Power Timeout Timer (Sleep Timer)

When there is no activity within a specified time period, the scanner turns off. Scan the appropriate power timeout barcode to change the timeout duration (in seconds).
Note: If there are no trigger pulls during the timer interval, the scanner turns off. Whenever the trigger is pressed, the timer is reset.

30s

60s

120s

300s*

600s

1800s

Never Turn Off

Turn Off Immediately

Keyboard Country Layout

Your keyboard layout default is a US keyboard. To change this layout, scan the appropriate Keyboard Country barcode below.
(Please note that if your keyboard layout doesn't match your computer's, the outputs may be incorrect.)

United States*

Germany

France

Spain

Italy

United Kingdom

Operation Modes

Real Time Mode

By default, the barcode scanner operates in real time mode, transmitting scanned data immediately to the host device.

Real Time Mode*

Storage Mode

Storage mode is used to store barcode data when a scanner is out of range of its receiver or when performing inventory. The data is stored in the memory so it won't get lost when the barcode scanner is turned off. When the scanner's buffer space is full, any barcodes scanned generate an error tone. In order to clear the scanner's buffer, you must scan Clear All Codes.

Storage Mode

Upload All Stored Codes

In storage mode, the scanner won't transmit the data to the host device even when it's back in range. Users need to scan the following code to instruct the scanner to transmit the stored data.

Upload All Stored Codes

Total Records

If you wish to output the total number of barcodes scanned when in storage mode, scan Total Records.

Total Records

Clear All Stored Codes

If you want to clear the scanner's buffer of all data accumulated in storage mode, scan Clear All Stored Codes.

Clear All Stored Codes

Pairing the Scanner with its Charging Station

If the scanner doesn't connect to the charging station automatically, please follow these steps to re-establish the connection:
Step 1: Unplug the station (If the station is not plugged in, please disregard this step).
Step 2: Scan the "2.4GHz Mode" barcode.
Step 3: Scan the "Pairing" barcode.
Step 4: Plug the station into a known working USB 3.0 port on the computer using the original USB cable.

2.4GHz Mode

Pairing

Pairing the Scanner with Bluetooth Devices

The scanner can be paired with Bluetooth devices such as personal computers, laptops, and tablets.
Step 1: Scan the “Bluetooth HID” barcode and the “Pairing” barcode below to establish one-way communication with the scanner.

Bluetooth HID Mode

Pairing

Step 2: Set your personal computer, laptop, or tablet so it searches for other Bluetooth devices.
Step 3: Once your personal computer, laptop, or tablet has located the scanner, select the scanner name. They will automatically pair with the scanner.

USB-COM/Virtual Serial Port

Scan the following code to program the scanner to emulate a regular RS232-based COM Port. No extra configuration is necessary. To exit USB-COM mode, please scan the 2.4GHz Mode barcode.

USB-COM Mode

Case Conversion

Alphabetic keyboard characters can be forced to be all upper case or all lowercase. So if you have the following barcode: "AZErty", you can make the output "AZERTY" by scanning Convert All Characters to Upper Case, or to "azerty" by Convert All Characters to Lower Case.

Conversion Off*

Convert All Characters to Upper Case

Convert All Characters to Lower Case

Enter/Tab Suffix

By default, the scanner adds a carriage return suffix to all symbologies, which functions the same as pressing the Enter key on a keyboard. If you don't want the scanner to "press" the Enter key after each scan, please scan the "None" barcode below. If you'd like the scanner to "press" the Tab key after each scan, please scan the "Horizontal Tab" barcode below.

Carriage Return*

Horizontal Tab

None

Timestamp

If you want to record the time and date for every scan, scan either Time & Date Prefix or Time & Date Suffix. If the time and date stamp doesn't match your computer's, contact Tera customer service for the Time Sync Tool software.

Show Current Time & Date

Time & Date Prefix

Time & Date Suffix

Clear Timestamp

Removal of Characters

If you need to remove leading and/or trailing characters from scanned bar codes, please follow these steps:

1. Scan the "Remove characters from the start" barcode or the "Remove characters from the end" barcode

Remove characters from the start

Remove characters from the end

2. Scan the appropriate code from the following digit codes:

1 digit

2 digits

3 digits

4 digits

5 digits

6 digits

7 digits

8 digits

9 digits

10 digits

11 digits

12 digits

13 digits

14 digits

15 digits

16 digits

Scan Modes

Manual Trigger Mode

A scan mode for reading barcodes by pulling the trigger.

Manual Trigger Mode*

Continuous Scan Mode

A scan mode that continuously keeps scanning barcodes.

Continuous Scan Mode

Sensor-activated Mode

For sensor-activated mode, when the scanner is idle it has no illumination, and uses predominantly ambient light to detect if an object is moving in front of the scanner. The scanner is expected to reside in a fixed position. Whenever it detects activity in the field of view it will turn on the illumination and attempt to read a barcode. After reading the barcode the illumination will be default remain on for defined period, before it returns to idle state again.

Sensor-activated Mode

Note: Both Continuous Scan Mode and Sensor-activated Mode are referred to as “Hands free Modes. If the scanner's trigger is pulled when using a hands free mode, the scanner changes to manual trigger mode. Once the time-out value is reached, (if there have been no further trigger pulls) the scanner reverts to the original hands free mode.