Tera D5100

Tera D5100 Wireless 1D 2D QR Barcode Scanner User Manual

Model: D5100

Introduction

The Tera D5100 Barcode Scanner is a versatile and robust device designed for efficient barcode scanning. It supports both 1D and 2D (QR) codes, offering flexible connectivity options including 2.4 GHz wireless and USB wired connections. Featuring a patented battery level indicator and an ergonomic design, this scanner is built for extended use and durability in various environments.

Figure 1: Tera D5100 Barcode Scanner with included accessories.

Key Features

- **Battery Level Indicator and 2200mAh Capacity:** Provides longer continuous usage and extended standby time. Unique indicator lights show remaining battery level.
- **Ergonomic Design:** Features a curved and extended handle, specifically tailored for comfortable grip during prolonged use.
- **Anti-Shock Silicone (IP54):** Equipped with an orange anti-shock silicone protective cover to prevent scratches and friction from falls up to 6.56 feet. IP54 technology offers dust protection.
- **2.4 GHz Wireless plus USB 2.0 Wired Connection:** Offers plug-and-play functionality with either a USB receiver for wireless operation (up to 328 ft range in barrier-free environments) or a direct USB cable connection. No driver

installation is required.

- **Digital and Printed 1D 2D QR Bar Code Symbologies:**Supports a wide range of barcode types including 1D (Codabar, Code 11, Code93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8, EAN-13, UPC-A, ISBN, Industrial 25, Interleaved 25, Standard25, Matrix) and 2D (QR, DataMatrix, PDF417, Aztec, Hanxin, Micro PDF417).

Figure 2: The ergonomic handle provides a comfortable and secure grip.

Setup

The Tera D5100 barcode scanner offers two primary connection methods for seamless integration with your system.

2.4 GHz Wireless Connection

1. Locate the USB wireless dongle. It is typically stored in the base of the scanner for convenience.
2. Plug the USB wireless dongle into an available USB port on your computer (PC, laptop, etc.).
3. The scanner is plug-and-play and should automatically connect to the dongle. The battery indicator lights on the scanner will illuminate, indicating it is ready for use.

USB Wired Connection

1. Connect one end of the provided USB cable to the charging/data port at the bottom of the scanner.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. The scanner will power on and function as a wired device. No additional drivers are typically needed.

Figure 3: The scanner supports both USB wired and 2.4G wireless connections.

Operating Instructions

Scanning Modes

The D5100 scanner offers three distinct scanning modes to suit various operational needs:

- **Manual Trigger Mode:** Press the trigger button to activate the scan beam and read a barcode.
- **Continuous Scan Mode:** The scan beam remains continuously active, allowing for rapid scanning without repeatedly pressing the trigger.
- **Auto-Sense Scan Mode:** The scanner automatically detects a barcode within its field of view and activates the scan beam to read it.

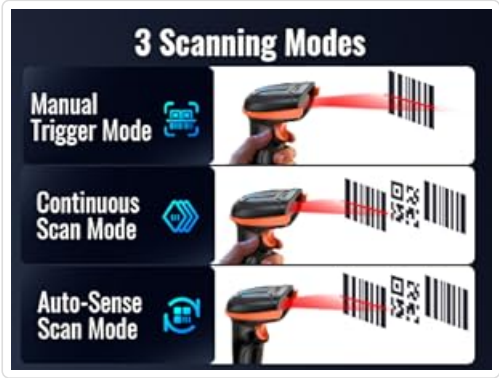


Figure 4: Choose from Manual, Continuous, or Auto-Sense scanning modes.

Battery Level Indicator

The scanner features a patented battery level indicator on its top surface. This indicator uses a series of blue lights to show the remaining battery charge:

- Four lights: 100% charge
- Three lights: 75% charge
- Two lights: 50% charge
- One light: 25% charge

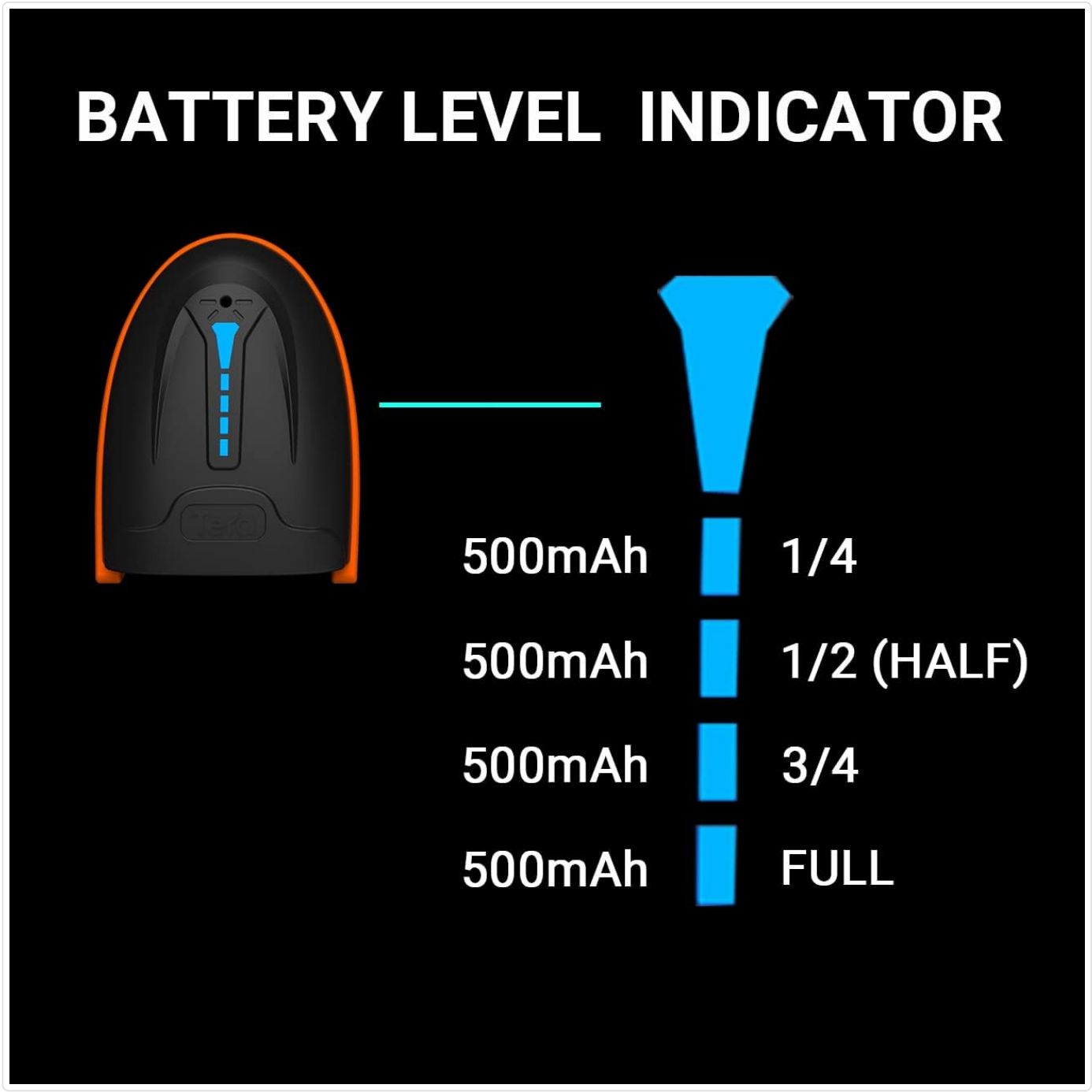


Figure 5: The battery indicator provides real-time charge status.

Upload Modes

The scanner supports two data upload modes:

- **Instant Upload Mode:** Scanned data is immediately transmitted to your connected device.
- **Storage Mode:** Scanned data is stored internally in the scanner's memory and can be uploaded later as a batch. This is useful for inventory tasks where real-time connection is not always available.

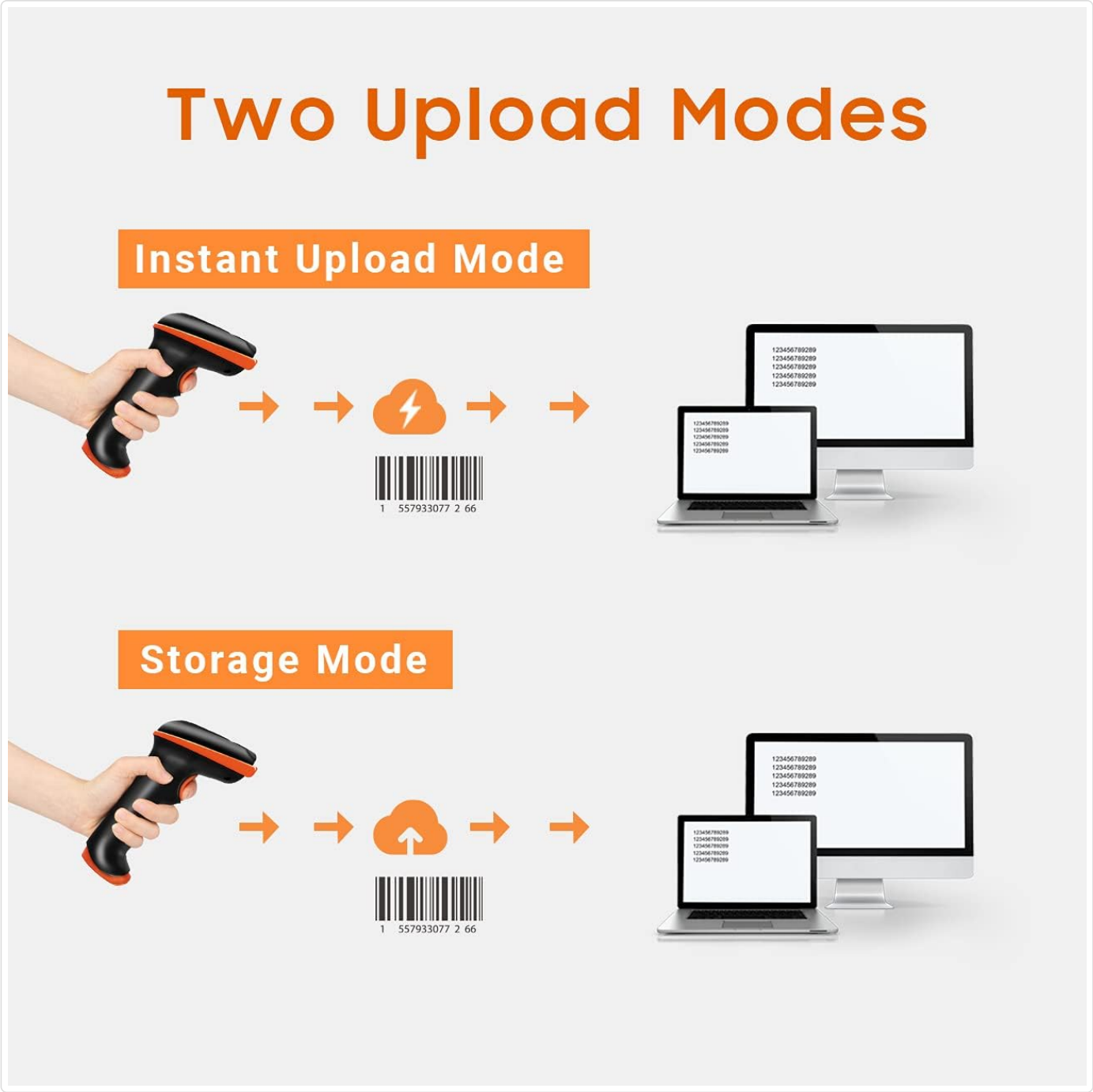


Figure 6: Choose between instant data transfer or storing data for later upload.

Scanning from Digital Screens

The D5100 is capable of scanning both printed 1D/2D codes and codes displayed on digital screens (e.g., smartphones, tablets, monitors).

Figure 7: The scanner can read barcodes from both paper and digital screens.

Adding Prefixes and Suffixes

The scanner can be configured to add custom prefixes or suffixes to scanned data. This feature is useful for data organization and integration with various software systems.

Figure 8: Customize scanned output by adding prefixes or suffixes.

Volume Adjustment

The scanner's beep volume can be adjusted to suit your environment, with options for low, medium, high, or off.

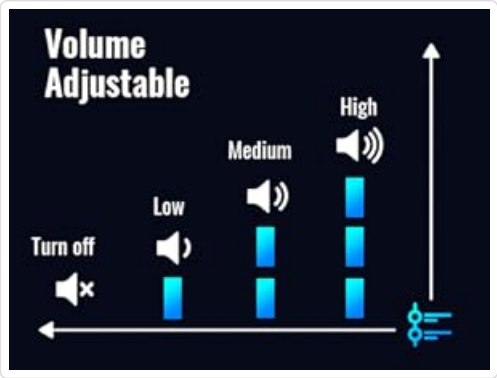


Figure 9: Adjust the scanner's feedback volume as needed.

Maintenance

To ensure the longevity and optimal performance of your Tera D5100 Barcode Scanner, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the scanner's exterior. For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the device.
- **Protection:** The scanner features an anti-shock silicone protective cover and an IP54 rating, providing resistance against dust and minor splashes. While durable, avoid submerging the device in water or exposing it to excessive dust.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Charge the scanner regularly, especially if it will be stored for an extended period.

Figure 10: The anti-shock silicone and IP54 rating enhance durability.

Troubleshooting

Here are solutions to common issues you might encounter with your Tera D5100 Barcode Scanner:

- **Scanner Not Responding / In Sleep Mode:** If the scanner has not been used for a while, it may enter a sleep mode to conserve battery. Press the trigger button once or twice to wake it up. The battery indicator lights should illuminate when active.
- **Scanner Adds Extra Characters to Scanned Data:** This issue typically indicates a configuration mismatch, such as an incorrect keyboard layout setting. Refer to the user manual (included in the package) for specific programming barcodes to reset the scanner to default settings or configure the correct keyboard layout for your region (e.g., US keyboard). If the problem persists, contact customer support.
- **Scanning Inaccurate or Slow:** Ensure the barcode is clean and not damaged. Hold the scanner at an appropriate distance and angle to the barcode. Check for sufficient lighting. If scanning from a screen, ensure the screen brightness is adequate.

- **Wireless Connection Issues:** Ensure the USB wireless dongle is securely plugged into your computer. Verify that the scanner is within the effective wireless range (up to 328 ft in barrier-free environments). Avoid strong electromagnetic interference.

Specifications

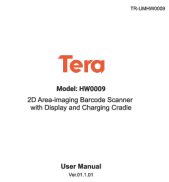
Attribute	Detail
Model Number	D5100
Product Dimensions	2.5 x 3.9 x 6.6 inches
Item Weight	12.3 ounces
Power Source	Battery Powered
Battery Type	1 Lithium Ion battery required
Connectivity Technology	2.4G Wireless, USB Cable
Compatible Devices	Laptop, Desktop
Manufacturer	Tera
Country of Origin	China

Warranty and Support

Tera products are designed, developed, and supported in the USA. While specific warranty periods may vary, Tera is committed to providing reliable products and customer service. For any technical assistance, troubleshooting, or inquiries regarding your Tera D5100 Barcode Scanner, please refer to the contact information provided in your product packaging or visit the official Tera website for support resources.

Related Documents - D5100

	Tera D5100 Wireless 2D Barcode Scanner User Manual Comprehensive user manual for the Tera D5100 Wireless 2D Barcode Scanner, detailing setup, operation modes, configuration, and support resources.

	[Tera D5100Y Wired 2D Barcode Scanner User Manual] User manual for the Tera D5100Y Wired 2D Barcode Scanner, detailing setup, configuration options, and usage instructions for optimal performance in retail, warehouse, and POS environments.
	[Tera 5200C Wireless Barcode Scanner User Manual] User manual for the Tera 5200C Wireless Barcode Scanner, detailing setup, features, specifications, connectivity options (2.4Ghz, Bluetooth, USB), and support information for Tera barcode scanners.
	[Tera HW0009 2D Barcode Scanner User Manual] Official user manual for the Tera HW0009 2D Area-imaging Barcode Scanner. This guide details setup, configuration, wireless (2.4G, Bluetooth) and USB connectivity, operation modes, and scanner settings for this handheld barcode reader with a digital display and charging cradle.
	[Tera 5100E Wireless/Wired 1D Laser Barcode Scanner User Manual] This user manual provides comprehensive instructions and specifications for the Tera 5100E Wireless/Wired 1D Laser Barcode Scanner, covering setup, configuration, and operation.
	[Tera 1D 2D / QR Wireless Bar Code Scanner User Guide - TR-UMHW0015] Comprehensive user guide for the Tera TR-UMHW0015 1D, 2D, and QR wireless barcode scanner. Learn about setup, settings, operation, and troubleshooting for efficient data capture.