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## Unitech TS100

# Unitech TS100 2D Hands-Free Presentation Barcode Scanner

## USER MANUAL

### Introduction

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This manual provides essential information for the proper setup, operation, and maintenance of your Unitech TS100 2D Hands-Free Presentation Barcode Scanner. Please read this manual thoroughly before using the device to ensure optimal performance and to prevent damage.

The Unitech TS100 is an omnidirectional USB wired desktop barcode reader designed for efficient and intuitive scanning of 1D and 2D barcodes, including PDF417 and Data Matrix, in retail and other point-of-sale environments.

### Safety Information

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- Do not expose the scanner to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping the scanner or subjecting it to strong impacts.
- Do not attempt to disassemble or modify the scanner. This will void the warranty.
- Use only the provided USB cable for connection.
- Keep the scanning window clean to ensure accurate barcode reading.

### Package Contents

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Please check the package contents to ensure all items are present:

- Unitech TS100 2D Presentation Barcode Scanner
- USB Cable
- Quick Start Guide (if applicable)

### Product Overview

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The Unitech TS100 features a compact design with a large scan window for easy barcode presentation. Its omnidirectional scanning capability allows for quick and efficient data capture.

# TS100

2D Presentation Scanner



Large  
Scan Window



Auto-sensing  
Mode



1D & 2D  
Barcode Scanner



Multiple  
Scanning Modes



Figure 1: Unitech TS100 2D Presentation Scanner highlighting its large scan window, auto-sensing mode, 1D & 2D barcode scanning, and multiple scanning modes.



Figure 2: Front view of the Unitech TS100 scanner, showing the blue scanning window and the Unitech logo.



Figure 3: Back view of the Unitech TS100 scanner, displaying the product label with model number TS100-SUCB00-SG and power specifications.

## Setup

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Follow these steps to set up your Unitech TS100 barcode scanner:

1. **Unpack the Scanner:** Carefully remove the TS100 scanner and its accessories from the packaging.
2. **Connect the USB Cable:** Insert the USB cable into the port at the back of the scanner.
3. **Connect to Host Device:** Plug the other end of the USB cable into an available USB port on your computer, laptop, or POS system.
4. **Driver Installation:** The scanner is typically plug-and-play. Your operating system should automatically detect and install the necessary drivers. Wait for the installation to complete.
5. **Power On:** The scanner will power on automatically once connected to a powered USB port. A beep and/or LED indicator will confirm it is ready for use.

## Operating Instructions

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The Unitech TS100 is designed for hands-free operation, offering multiple scanning modes for various applications.

### Basic Scanning

- Place the barcode within the scanner's field of view, facing the scanning window.
- The scanner will automatically detect the barcode and emit a successful scan indication (e.g., a beep and/or green LED).
- The scanned data will be transmitted to your connected host device as keyboard input.

### Scanning Modes

The TS100 supports multiple scanning modes to optimize performance for different barcode types and environments:

- **Normal Mode:** Standard scanning for most 1D and 2D barcodes.
- **Smartphone Mode:** Optimized for reading barcodes displayed on smartphone screens, which can sometimes be reflective.
- **Rapid Mode:** Designed for faster scanning of multiple barcodes in quick succession.

Refer to the full programming manual (available on the Unitech website) for instructions on how to switch between these modes using configuration barcodes.

## Maintenance

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Proper maintenance ensures the longevity and performance of your scanner:

- **Cleaning the Scanning Window:** Use a soft, lint-free cloth lightly dampened with water or a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials.
- **Cleaning the Exterior:** Wipe the exterior of the scanner with a soft, dry cloth.
- **Storage:** When not in use, store the scanner in a clean, dry environment away from direct sunlight and extreme temperatures.

## Troubleshooting

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If you encounter issues with your TS100 scanner, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Scanner does not power on.	USB cable not properly connected or host device USB port is not powered.	Ensure the USB cable is securely connected to both the scanner and the host device. Try a different USB port or host device.
Scanner does not read barcodes.	Barcode is damaged, poorly printed, or not supported. Scanning window is dirty. Incorrect scanning mode.	Ensure the barcode is clear and undamaged. Clean the scanning window. Verify the barcode symbology is supported. Try switching scanning modes (e.g., Smartphone Mode for screen barcodes).
Scanned data is incorrect or incomplete.	Poor barcode quality. Scanner configuration issues.	Ensure the barcode is clear. Refer to the programming manual for advanced configuration settings.
Scanner beeps but no data is transmitted.	Host device not recognizing the scanner as a keyboard input.	Ensure the cursor is in a text field on your host device. Reconnect the USB cable. Restart the host device.

## Specifications

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Detailed technical specifications for the Unitech TS100 scanner:

Feature	Specification
Sensor	Image Sensor with 1280x800 pixels
Illumination	650nm RED LED
Scan Rate	60 fps
Skew Angle	Horizontal Angle: 50°; Vertical Angle: 35°
Pitch Angle	±65°
Roll Angle	360°
Optical Resolution	1D: 4 mil; 2D: 6.7 mil
Printing Contrast Scale	25%
Host Interface	USB
Dimensions (L x W x H)	4.1 in x 5.7 in x 2.7 in (105mm x 146mm x 70mm)
Weight	12.1 oz / 345g (without cable)

Feature	Specification
1D Symbologies Supported	UPC-A/E, EAN-8/13, UPC/EAN Supplementals, EAN-8 Extend, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Matrix 2 of 5, Codabar, MSI Plessey, GS1 DataBar, China Postal, Korean Postal, etc.
2D Symbologies Supported	PDF417, MicroPDF417, DataMatrix, DataMatrix-Inverse, Maxicode, QRcode, MicroQR, Aztec, Aztec Inverse, Han Xin, Han Xin Inverse
Indicator	LED, Buzzer
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Relative Humidity	0% to 95% non-condensing

## Warranty and Support

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The Unitech TS100 barcode scanner main unit comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please contact Unitech customer service or visit the official Unitech website. Keep your purchase receipt as proof of purchase for warranty services.

**Unitech America Website:** [www.unitechamerica.com](http://www.unitechamerica.com)