



# SCANTECH IG500BT+ RF Wireless 2D Barcode Scanner Instruction Manual

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# SCANTECH

**SCANTECH IG500BT+ RF Wireless 2D Barcode Scanner**



## Product Information

- Product Name: IG500BT Wireless 2D Barcode Scanner
- Description: The IG500BT is a high-performance barcode scanner that supports most 1D, 2D, and GS1 Databar codes. It features OCR-B character reading and provides excellent performance for both display and printed label reading. The scanner is designed with IP52 sealing protection and offers wireless transmission options including 2.4G RF and Bluetooth 4.2 connection.
- Features:
  - Supports most 1D, 2D, and GS1 Databar codes
  - OCR-B character reading
  - Good performance on both display and printed label reading
  - IP52 sealing protection
  - 2.4G RF wireless transmission with automatic frequency hopping and anti-interference
  - Effective transmission distance of up to 100 meters in open space
  - Bluetooth 4.2 connection with a reach of 50 meters in open space
  - Stand option available for hands-free reading
  - Vibration when scanning
  - RF/BT receiver dongle storage compartment to prevent loss
- Barcode Compatibility:
  - 3mil Code39
  - 4mil Code39
  - 5mil Code39
  - 13mil UPC-A
  - 5mil PDF417
  - 5mil QR Code
  - 10mil QR Code
  - 10mil Data Matrix
  - 20mil QR Code
- Depth of Field:
  - 70~150 mm
  - 60~160 mm
  - 50~240 mm

- 40~450 mm
- 65~210 mm
- 75~140 mm
- 45~290 mm
- 30~260 mm
- 20~480 mm

The test is conducted under ambient light of 500 ~ 600 Lux.

- Physical Characteristics:
  - Body Weight: Approx. 195g/6.88oz
  - Material: ABS
  - Dimension: 172 x 67 x 87mm
  - Color: Black
- Performance:
  - Light Source: White light illumination, Green aimer
  - Sensor: 1280 (H) x 800 (V) pixels
  - Field of View
  - Scan Rate: 60 fps
  - Reading Distance: 450mm@20mil/0.5mm, PCS90%, QRCode
  - Print Contrast Ratio (Minimum): PCS20%
  - Resolution: 1D: 3mil/0.076mm, 2D: 6.67mil/0.2mm
  - Reading Angle
  - Pitch Angle
  - Skew Tolerance
  - Ambient Light: 100,000 Lux Max.
  - Sealing: IP52 water and dust protection
- Reliability:
  - MTBF (Calculated)
  - Cable Bending Test
  - Drop
- Environmental:
  - Voltage
  - Battery
  - Recharge Time
  - Reads per Charge: Approx. 80,000 times in continuous read
  - Power Consumption
  - Standby Operation
  - LED Indicator

## **Product Usage Instructions**

1. Ensure the scanner is charged by connecting it to a power source using the provided cable. The recharge time is approximately 5 hours.
2. To turn on the scanner, press and hold the power button until the LED indicator lights up.

3. If using the scanner wirelessly, make sure it is paired with the desired device. Refer to the device's user manual for instructions on how to pair via 2.4G RF or Bluetooth 4.2 connection.
4. For hands-free reading, attach the optional stand to the scanner.
5. To scan a barcode, aim the scanner's green aimer at the barcode and press the scan button. The scanner will vibrate to indicate a successful scan.
6. For optimal scanning performance, ensure the barcode is within the reading distance specified in the user manual.
7. If the scanner is not in use for an extended period, it will automatically enter standby mode to conserve power. Press the power button to wake it up.
8. To view the scanned barcodes, access the storage compartment at the rear end of the scanner where the RF/BT receiver dongle is stored.
9. If any issues or errors occur during scanning, consult the troubleshooting section of the user manual or contact customer support for assistance.
10. When finished using the scanner, turn it off by pressing and holding the power button until the LED indicator turns off.

## Introduction

IG500RF(with 2.4G RF)/ IG500BT(with both 2.4G RF and Bluetooth 4.2) is a wireless gun-type 2D bar code scanner, has most modern design with rugged casing and supports IP52 sealing protection, which is designed especially for retail, logistic and warehousing management market. We include friendly functions with replaceable multi-interface cable options that makes it more easily to be operated by the customers to accommodate to user environment. An optional stand can be ordered to facilitate hand-free reading application.

With its unmatched performance for the majority of 1D and 2D bar codes, OCR-B character reading to increase your productivity.

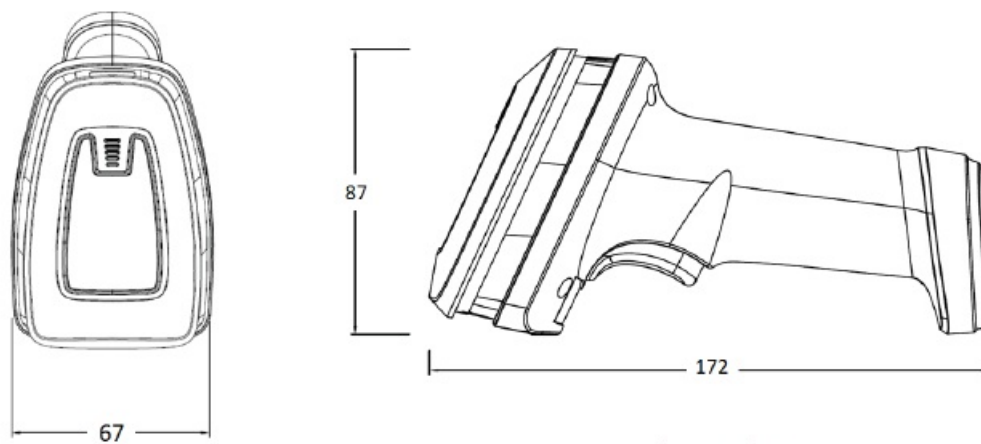
IG500RF/BT's out of range or batch transmission mode with memory capacity stores up to 80,000 inputs of EAN13 barcodes. Its 2.4G RF wireless transmission, automatic frequency hopping and anti-interference, the effective transmission distance can reach 100 meters, while Bluetooth 4.2 connection reach 50 meters in open space.

IG500RF/IG500BT is a high performance barcode scanner which provides customers with the most cost-effective solution in the market. It is perfectly suitable and definitely the best choice for any retail, logistic and warehousing environment.

## Features

- Support most 1D, 2D and GS1 Databar codes, and OCR-B character reading.
- Good performance on both display and printed label reading.
- Designed as IP52 sealing protection.
- 2.4G RF wireless transmission, automatic frequency hopping and anti-interference, the effective transmission distance in open space can reach 100 meters. With Bluetooth 4.2 connection reach 50m in open space.
- A stand option can be ordered to facilitate hand-free reading options.
- Vibration when scanning.
- The rear end is designed with a storage compartment for RF/BT receiver dongle , which can effectively prevent loss.

## Dimension



### Mechanical Drawing

Unit: mm

Barcode	Depth of field
3mil Code39	70~150 mm
4mil Code39	60~160 mm
5mil Code39	50~240 mm
13mil UPC-A	40~450 mm
5mil PDF417	65~210mm
5mil QR Code	75~140 mm
10mil QR Code	45~290 mm
10mil Data Matrix	30~260 mm
20mil QR Code	20~480 mm

The test is under ambient light 500 ~ 600 Lux.

## Specifications

### Physical Characteristics

- **Body Weight** Approx. 195g/6.88oz
- **Material** ABS
- **Dimension** 172 x 67 x 87mm
- **Color Available** Black

### Performance

- **Light Source** White light illumination, Green aimer
- **Sensor** 1280 (H) x 800 (V) pixels
- **Field of view** Horizontal – 45°, Vertical – 36°
- **Scan Rate** 60 fps

- **Reading Distance** 450mm@20mil/0.5mm, PCS90%, QRCode
- **Print Contrast Ratio(Minimum)** PCS20%
- **Resolution** 1D: 3mil/0.076mm  
2D: 6.67mil/0.2mm
- **Reading Angle**
- **Pitch Angle**  $\pm 5^{\circ} \sim 60^{\circ}$  ( $\pm 5^{\circ}$ )
- **Skew Tolerance**  $\pm 5^{\circ} \sim 60^{\circ}$  ( $\pm 5^{\circ}$ )
- **Ambient Light** 100,000 Lux Max.
- **Sealing** IP52 water and dust protection

## Reliability

- **MTBF(Calculated)** 50,000 hours minimum
- **Cable Bending Test** 30 times/min@500g/90°
- **Drop** 47.24 inches(120cm)

## Environmental

- **Voltage Battery** Li-Ion 3.7V/2000mA
- **Recharge time** Approx. 5 hours
- **Reads per charge** 80,000 times in continuous read
- **Power Consumption**
- **Stand by** <130mA
- **Operation** <280mA
- **LED Indicator** Good read: Beep and Blue LED flash  
RF/BT Connection: Blue on  
Charge : Purple

## Radio Characteristics

- **Wireless Module** 2.4G RF and Bluetooth 4.2
- **Frequency Band** 2.402GHz~2.480GHz
- **Transmission Range** Up to 100m line of sight for 2.4G RF, 50m for Bluetooth 4.2

## Readable Symbolologies

### 1D Symbolologies

UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, UCC/EAN-128 , Code 39, Code 39 Full ASCII, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code11, China Post, MSI, Telepen, GS1 Databar Omni-directional, GS1 Databar Limited, GS1 Databar Expanded

### 2D Symbolologies

Aztec, Data Matrix, MaxiCode, QRCode, PDF417, Micro PDF, HANXIN, MicroQR Code, Dotcode, GridMatrix  
OCR-B character

Due to Champtek/Scantech ID's continuing product improvement programs, specifications and features are subject to change.

## FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 or more 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 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.

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## Documents / Resources

	<p><a href="#">SCANTECH IG500BT+ RF Wireless 2D Barcode Scanner</a> [pdf] Instruction Manual WOI-IG500BT, WOIIIG500BT, IG500BT RF Wireless 2D Barcode Scanner, RF Wireless 2D Barcode Scanner, Wireless 2D Barcode Scanner, 2D Barcode Scanner, Barcode Scanner, Scanner</p>
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