



SCANTECH ID[®]
CHAMPTEK Group

IG500RF/IG500BT

Wireless 2D Barcode Scanner

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.

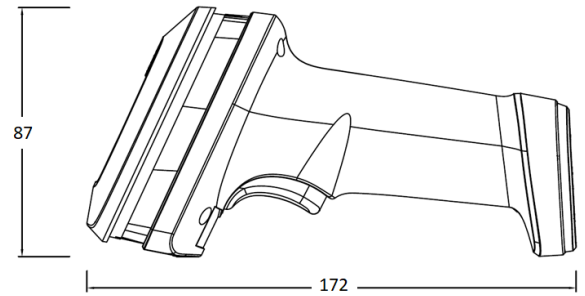
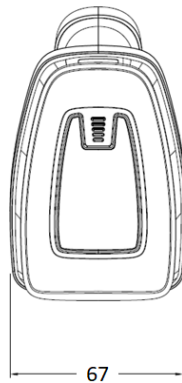
Features

- 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.



IG500RF/BT

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



Mechanical Drawing
Unit: 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 PCS90%, Code39 2D: 7mil/0.18mm PCS90%, QRCode |
| Reading Angle | |
| Pitch Angle | ±5°~60° (±5°) |
| Skew Tolerance | ±5°~60° (±5°) |
| 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 (5V/500mA) |
| 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

V3 OCR-B character

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