



# IG610/BT

## General Purpose Area Image Barcode Scanner

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### Introduction

IG610/IG610BT is a brand new general purpose handheld area imager bar code scanner which is designed especially for retail, logistic market. We include friendly functions with replaceable multiple interface cable options that makes it more easily to be operated by customers to accommodate it to user environments.

It supports with up to 500mm reading depth of 1D and 2D barcode, its scan rate is up to 60 images per second in 1D/2D area mode. Based on CMOS technology for optimal image sensitivity and dynamic range, features scanning speeds two times faster than traditional 1D/2D imagers.

IG610BT equips with Class1 Bluetooth V2.1 EDR technology with transmission range up to 80m/262.47 ft. in line of open sight, supports both SPP and HID profiles can easily pair up with other Bluetooth V2.1 compatible mobile equipments or systems.

In short, IG610/BT is a high performance handheld area imager scanner provides customers with the most cost-effective solution in the market and perfectly suitable and definitely the best choice for any retail and logistic environment.

### Features

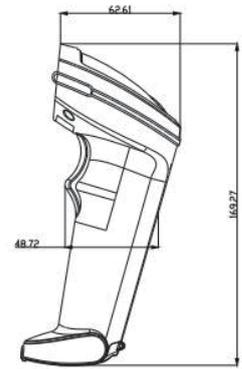
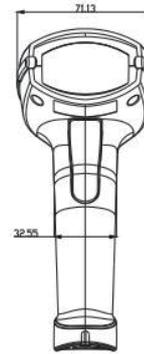
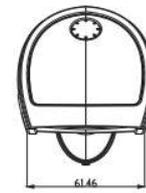
- Support 1D and 2D Barcodes plus GS1 Databar codes.
- Automatic detect reading mode.
- 3 in 1 Combo Interface, changes Interface by replacing cable.
- Bluetooth V2.1 Class 1 technology, range up to 80m in line of open sight.
- Bluetooth supports HID and SPP profiles.
- Support batch transmission mode, memory capacity stores up to 30,000 inputs of EAN13 barcodes.
- Rugged casing that supports IP42 sealing protection.

# IG610/BT

## Reading Range

Focus Range	Near	Far
5.0 mil Code 39	1.9 in./4.7 cm	7.7 in./19.4 cm
20 mil Code 39	Field of view limited	24.0 in./60.9 cm
6.67 mil PDF417	2.7 in./6.8 cm	7.0 in./17.9 cm
15 mil PDF417	Field of view limited	13.2 in./33.5 cm
10 mil Datamatrix	Field of view limited	8.3 in./21.0 cm
13 mil 100% UPC	2.8 in./7.2 cm	16.8 in./42.4 cm

(Note: Near distance is field of view limited by barcode size)



## Specifications

### Physical Characteristics

#### IG610

Body weight	Approx. 120g / 4.23oz
Material	ABS Plastic and Rubber
Cable Length	5FT. (150cm)
Connector	RJ 45C 10Pins
Dimension	71.13mm(W) x 62.61mm(H) x 169.27mm(L)

#### IG600 Stand (Option)

Dimension	100.0 mm(W) x 203.25 mm(H) x 160.00mm(L)
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#### IG610BT

Scanner weight	Approx. 182g (with Battery) / 6.42oz
Dimension	71.13 mm(W) X 62.61 mm(H) X 169.27 mm(L)
Cradle weight	Approx. 147g / 5.18oz
Dimension	112.18mm(W) x 84.64mm(H) x 130.6 mm(L)

### Performance

Light Source	Visible red light 625 ± 5nm LED
Scan Rate	60 images per second in 2D mode
Resolution	1D: 4mil/0.1mm 2D: 5mil/0.127mm
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%
View of field	40° Horizontal, 25° Vertical
Indicators	Beeper and LED (Green = good read)
Scan Angle	Pitch : ±60° (front to back) Skew: ± 60° Rotation : ±180°
Ambient Light	100,000 Lux Max.
Interface	RS-232, USB (HID KBW or Virtual comport)

### Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	20% to 95% (Non-condensing)
Sealing	Designed to IP42 water and dust protection

### Electrical Characteristics

#### IG610

Voltage	DC5V
Operation Consumption	280mA

#### IG610BT Scanner

Voltage Battery	Li-Ion 3.7V/2,600 mAh
Charge Time	Approx.5 hours
Reads per Charge	20,000 Times
Operation Consumption	400m

#### IG610BT Cradle

Voltage	DC5V
Operation Consumption	70mA

### Radio Characteristics

Bluetooth Module	Bluetooth V2.1 EDR
Frequency Band	2.402GHz ~ 2.480GHz
Transmission Range	Up to 80M(262.47FT.) line of sight
RF Output Power	Class 1 (under 20dBm)

### Reliability

MTBF(Calculated) IG610	50,000 hours minimum
IG610BT	40,000 hours minimum.
Cable Bending Test	30 times/min @ 500g/90°
Drop	5ft.(150cm) drop on Concrete Surface

### Readable Symbolologies

All UPC/EAN/JAN, EAN128 Code, Code 39, Code 39 Full ASCII Code32 / Italian Pharmacy, Code 128, CODABAR/NW7Interleave 25, Industrial 25, Matrix 25, MSI/PLESSEY, TelepenCode 93, Code 11, China Postage, Code 26, LCD25, GS1 DataBar

Due to Champtek's / Scantech ID's continuing product improvement programs, specifications and features are subject to change without notice.