



# IG620/BT

General Purpose Area Image Barcode Scanner

SCANTECH ID<sup>®</sup>  
CHAMPTEK Group

## Introduction

IG620/IG620BT 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 300mm 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.

IG620BT 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, IG620/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

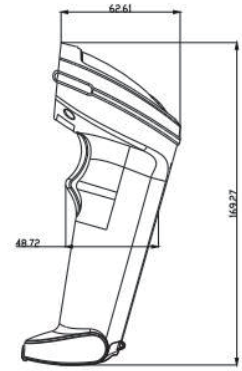
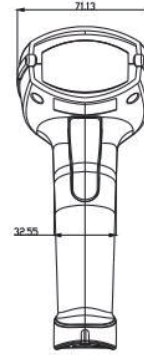
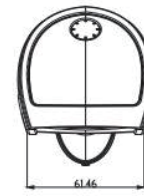
- Support 1D and 2D Barcodes plus GS1 Databar codes.
- Automatic detect reading mode.
- 3 in 1 Combo Interface, changes Interface by replacing cable.
- Bluetooth V2.1 Class 1 technology, range up to 80m in line of open sight.
- Bluetooth supports HID and SPP profiles.
- Support batch transmission mode,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

# IG620/BT

## Reading Range

Barcode	Depth of field
4mil Code39	40~80 mm
5mil Code39	40~110 mm
6mil Code39	40~120 mm
10mil Code39	40~180 mm
13mil Code39	30~250 mm

Barcode	Depth of field
20mil Code39	30~300 mm
20mil QRCode	40~180 mm
10mil PDF417	35~120 mm
20mil PDF417	50~150 mm
20mil Data Matrix	50~240 mm



## Specifications

### Physical Characteristics

#### IG620

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)

#### IG620BT

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: 10mil/0.26mm
Depth of Field	Up to 300mm@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

#### IG620

Voltage	DC5V
Operation Consumption	360mA

#### IG620BT Scanner

Voltage Battery	Li-Ion 3.7V/2,600 mAh
Charge Time	Approx.5 hours
Reads per Charge	20,000 Times
Operation Consumption	445mA

#### IG620BT 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) IG620	50,000 hours minimum
IG620BT	40,000 hours minimum.
Cable Bending Test	30 times/min @ 500g/90°
Drop	5ft.(150cm) drop on Concrete Surface

#### 1D Symbologies

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

#### 2D Symbologies

Data Matrix,PDF 417,QR Code

#### Option :

Aztec,Maxi Code,Micro PDF 417,Micro QR Code,Han Xin Code,GM Code

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