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# IG820/BT

## Area Imager Barcode Scanner

### Introduction

IG820/IG821 (wired) / IG820BT(wireless) is a brand new gun-type area imager bar code scanner, has most modern design with rugged casing and supports IP42 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 increasing your productivity. It supports barcode scanning with up to 250mm reading depth for the majority of 1D, 2D bar codes and GS1 DataBar™ codes.

IG820BT's out of range or batch transmission mode with memory capacity stores up to 30,000 inputs of EAN13 barcodes. Wireless scanner and cradle equipped 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 compatible mobile equipments.

With its Intelligent Activation, it automatically switches over from button trigger mode to auto-sense mode while placing scanner on its stand or charging cradle. Its innovative magnetic contact charging design, makes charging quick and accurate.

IG820/BT 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.

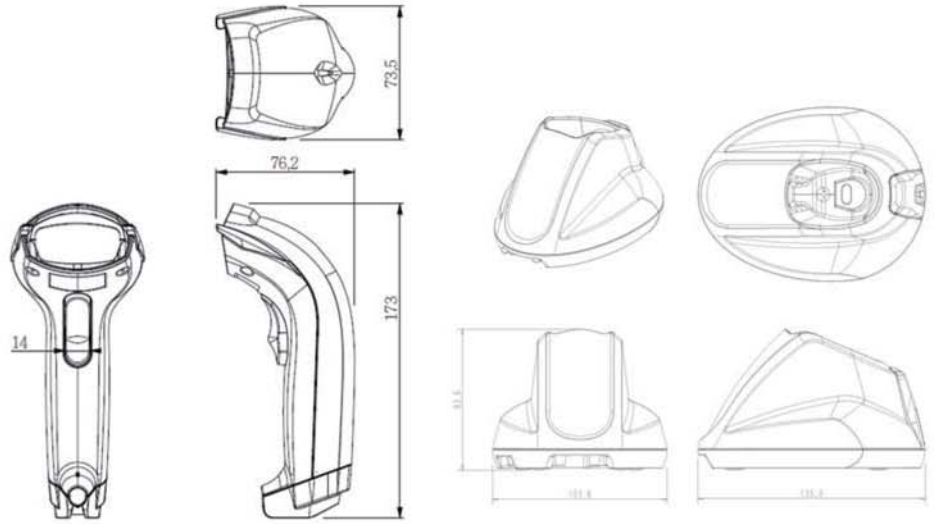
### Features

- Support 1D, 2D and GS1 Databar codes.
- Good reading performance, e.g. good reading of QR code in 30% damage or even one finder pattern is missing.
- Good performance on both display and printed label reading.
- Support automatic sense reading and is able to read under 0 Lux dark environment.
- Support multiple interface options, USB HID, Virtual COM and RS-232.
- Designed as IP42 sealing protection.
- With intelligent activation\*, it automatically switches over to automatic-sense reading while placed on the stand/cradle. Note: \*\*Only for IG821 and IG820BT
- Both contact and air 16KV Electro-Static discharge.
- A stand option can be ordered to facilitate hand-free reading options.
- Vibration when scanning (optional)
- Applicable on Android tablet or smart phone with optional cable.
- Direct charge with magnetic connector (available for IG825BT)
- Innovative direct charge with magnetic connector



# IG820/BT

Barcode	Depth of field
3mil Code39	30~50 mm
4mil Code39	20~80 mm
5mil Code39	20~90 mm
6mil Code39	20~100 mm
10mil Code39	20~150 mm
13mil Code39	20~160 mm
20mil Code39	20~230 mm
20mil QR Code	30~130 mm
10mil PDF417	30~110 mm
20mil PDF417	30~150 mm
20mil Data Matrix	30~150 mm



Note:

1. The test is under ambient light 700 ~ 800 Lux.
2. Reading area

**Mechanical Drawing**  
Unit: mm

## Specifications

### Physical Characteristics

#### IG820

Body Weight	Approx. 110g/3.88oz
Material	ABS/Rubber
Dimension	73.5 mm W x 173mm D x 76.2 mm H
Color Available	Black/Gray

#### IG820BT

Scanner weight	Approx. 160g/ 5.65oz
Cradle weight	Approx. 170g/ 6.0oz
Dimension	Scanner : 73.5 mm W x 173mm D x 76.2 mm H Cradle : 103.6 mm W x 135mm D x 83.6 mm H

### Performance

Light Source	White light LED
Sensor	752 (H) x 480 (V) pixels
Field of view	Horizontal – 40°, Vertical – 25°
Scan Rate	60 fps (at full resolution)
Reading Distance	230mm@20mil/0.5mm, PCS90%
Print Contrast Ratio(Minimum)	PCS45%@5mil/0.127mm
Resolution	3mil/0.076@ Code39, 5mil/0.127@PDF417
Reading Angle	Test Conditions : Code 39, 10mil/0.25mm,PCS90%
Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~60° (±5°)
Ambient Light	100,000 Lux Max.
Sealing	IP42 water and dust protection

### Environmental

#### IG820 Scanner

Voltage	DC 5V
Power Consumption	360mA, stand-by:180mA

#### IG820BT Scanner

Voltage Battery	Li-Ion 3.7V/2600mA
Recharge time	Approx. 5 hours
Reads per charge	20,000 times in continuous read

#### IG820BT Cradle

Voltage	DC 5V
Power Consumption	
Power On	95mA
Stand by	55mA
Operation	70mA
LED Indicator	Good read: Green Bluetooth Communication: Blue

### Radio Characteristics

Bluetooth Module	Bluetooth V2.1 EDR
Frequency Band	2.402GHz~2.480GHz
Transmission Range	Up to 100M(328.08FT.) line of sight
RF Output Power	Class 1 (under 20dBm)

### Reliability

MTBF(Calculated) IG820/821	50,000 hours minimum
IG820BT	40,000 hours minimum
Cable Bending Test	30 times/min@500g/90°
Drop	59.05 inches(150cm)

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



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