



# IG829BT

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

## Healthcare Wireless Area Imager Barcode Scanner

### Introduction

IG829BT is a wireless gun-type area imager bar code scanner, has most modern design with rugged casing and supports IP42 sealing protection, which is purpose-built for healthcare environments, a disinfectant-ready housing delivering maximum protection against the spread of bacteria, with special antimicrobial additives necessary to withstand cleaning processes.

With its unmatched performance for the majority of 1D, 2D and medical UDI bar codes reading increasing your productivity. Healthcare workers can switch between vibrate and beeper feedback by simply depressing the trigger for a few seconds.

IG829BT'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 charging cradle. Its innovative magnetic contact charging design, makes charging quick and accurate.

IG829BT 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 medical and healthcare environment.

### Features

- A disinfectant-ready housing (ISO 22196 and JIS Z2801) protects your investment with durable construction that is better able to resist the harmful effects of harsh chemicals.
- Support 1D, 2D, medical UDI and GS1 Databar codes.
- 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 being placed on the cradle.
- Both contact and air 16KV Electro-Static discharge.
- A stand option can be ordered to facilitate hand-free reading options.
- Vibration when scanning. (optional)

By Bluetooth V2.1 Class 1 technology, range is up to 90m in line of open sight.

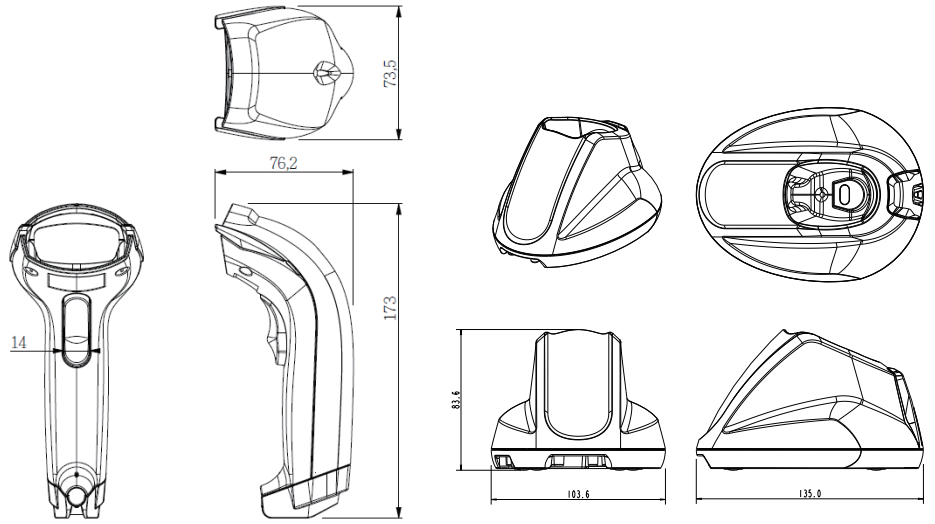
Supports HID and SPP Bluetooth profiles.

When in batch transmission mode, memory capacity stores up to 30,000 inputs of EAN13 barcodes.



# IG829BT

Barcode	Depth of field
3mil Code39	30~ 70 mm
4mil Code39	20~80 mm
5mil Code39	20~100 mm
6mil Code39	20~120 mm
10mil Code39	20~170 mm
13mil Code39	20~200 mm
20mil Code39	20~250 mm
20mil QR Code	20~180 mm
10mil PDF417	20~ 80 mm
20mil PDF417	20~110 mm
20mil Data Matrix	20~180 mm



Note:

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

**Mechanical Drawing**  
Unit: mm

## Specifications

### Physical Characteristics

#### IG829BT

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
Color Available	White

### Performance

Light Source	White light
Sensor	1280 (H) x 800 (V) pixels
Field of view	Horizontal – 55°, Vertical – 35°
Scan Rate	60 fps (at full resolution)
Reading Distance	2' 0mm@20mil/0.5mm, PCS90%
Print Contrast Ratio	PCS25%@5mil/0.127mm
Resolution	3mil/0.076mm@PCS90% Code39, 10mil/.26mm@PCS90% QRCode
Reading Angle	<i>Test Conditions : Code 39, 10mil/0.25mm,PCS90%</i>
Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~60° (±5°)
Ambient Light	100,000 Lux Max.
Sealing	IP42 water and dust protection

### 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)
Antibacterial resistance	ISO 22196 and JIS Z2801

### Electrical Characteristics

#### Scanner

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

#### 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)	40,000 hours minimum
Cable Bending Test	30 times/min@500g/90°
Drop	59.05 inches(150cm)

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