



SCANTECH ID[®]
CHAMPTEK Group

IG221/IG222

Wireless 2D Barcode Scanner

Introduction

IG221 or IG222 is a gun-type wireless 2D bar code scanner. Its wireless supports both 2.4G RF and Bluetooth, has most modern design, which is designed especially for retail, logistic, manufacturing, mobile payment, express delivery, inventory management, food traceability, asset inventory and warehousing management market. It can easily read the barcode on paper label, display screen and other media.

The product uses enhanced wireless 2.4G transmission technology, its 2.4G RF wireless transmission, automatic frequency hopping and anti-interference, the effective transmission distance can reach 60 meters, while Bluetooth connection reaches 30 meters in open space. Its out of range or batch transmission mode with memory capacity stores up to 20,000 inputs of EAN13 barcodes.

IG221 or IG222 is a high performance barcode scanner which provides customers with the most cost-effective solution in the market.

Features

- Support most 1D, 2D, GS1 Databar codes.
- Good performance on both display and printed label reading.
- Communication Interface : USB wired, wireless 2.4G or Bluetooth 4.2.
- 2.4G RF wireless transmission, automatic frequency hopping and anti-interference, the effective transmission distance in open space can reach ≥ 60 meters. With Bluetooth 4.2 connection reach up to 30m in open space.
- IG221 scanner is built in both 2.4G RF and Bluetooth, equipped with a type-C charge cable and a 2.4G RF receiver dongle.
- IG222 scanner is built in both 2.4G RF and Bluetooth, equipped with a charge cradle and a 2.4G RF receiver dongle.



IG221/IG222

Barcode	Depth of field
3mil Code39	20 ~ 55 mm
4mil Code39	20 ~ 75 mm
5mil Code39	20 ~ 100 mm
13mil EAN	20 ~ 220 mm
8mil PDF417	10 ~ 100mm
8mil QR Code	10 ~ 80 mm
8mil Data Matrix	10 ~ 75 mm
20mil QR Code	10 ~ 200 mm



IG221
(Equipped a charge cable & a 2.4G RF receiver dongle)



IG222
(Equipped a charge cradle & a 2.4G RF receiver dongle)

The test is under ambient light 400 ~ 500 Lux.

Specifications

Physical Characteristics

Body Weight	184.9g (Scanner) / 113.4g (Cradle)
Material	ABS
Dimension	L167x W70 x H88mm (Scanner) L123 x W88.5 x H70 (Cradle)
Color Available	Black body, orange button and windows side

Performance

Light Source	White light illumination, Red aimer
Sensor	640(H) x 480(V) pixels
Field of view	Horizontal - 36°, Vertical - 28°
Motion tolerance	25cm per second
Reading Distance	320 mm@20mil/0.5mm, PCS90%, Code39
Print Contrast Ratio(Minimum)	25%
Resolution	1D: 4mil/0.1mm CODE39 2D: 8mil/0.2mm QRCode
Reading Angle	
Pitch Angle	±5°~60° (±5°)
Skew Tolerance	±5°~60° (±5°)
Ambient Light	100,000 Lux Max.
Method of Communication	2.4G RF, Bluetooth (HID, SPP, BLE)

Reliability

MTBF(Calculated)	50,000 hours minimum
Cable Bending Test	30 times/min@500g/90°
Drop	47.2 inches(120cm)

Environmental

Voltage Battery	Li-Ion 3.7V/2000mA
Recharge time	Approx. 7 hours (5V@1000mA)
Reads per charge	>= 12 hours in continuous read

Radio Characteristics

Wireless Standard	2.4GHZ (ISM frequency band) , Bluetooth 4.2
Frequency Band	2.402GHz~2.480GHz
Transmission Range	>= 60m line of sight for 2.4G RF, up to 30m for Bluetooth 4.2

Readable Symbologies

1D Symbologies

UPC-A, UPC-E, EAN-8/JAN-8, EAN-13/JAN-13, ISSN, Code 39, Code 39 Full ASCII, Code 128, Interleaved 25, Industrial 25, Matrix 25, Codabar/NW7, Code 93, Code11, MSI,GS1 DataBar(14, Limited, Expanded).

2D Symbologies

QRCode, MicroQR Code, PDF417, Micro PDF417, Data Matrix, Aztec.

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