IG521/IG522
Wireless 2D Barcode Scanner

SCANTECH ID ®
CHAMPTEK Group

Introduction

IG521 or IG522 is a modern design, 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.

IG521 or IG522 has good performance for the majority of 1D and 2D bar codes, Post code, Composite codes, and OCR-B character reading to increase your productivity. It can easily read the barcodes on label, display and other media.
It 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, Post code, composite codes and OCR-B.
- 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.
- IG521 scanner is built in both 2.4G RF and Bluetooth, equipped with a type-C charge cable and a 2.4G RF receiver dongle.
  IG522 scanner is built in both 2.4G RF and Bluetooth, equipped with a charge cradle and a 2.4G RF receiver dongle.

IG521/IG522

Barcode	Depth of field
0.076mm/3mil Code39	60 ~ 110 mm
0.1mm/4mil Code39	60 ~ 150 mm
0.25mm/10mil Code39	40 ~ 220 mm
1mm/40mil Code39	50 ~ 650 mm
0.33mm/13mil UPC/EAN	30 ~ 260mm
20mil QR Code	30 ~ 320 mm
8mil Data Matrix	40 ~ 135 mm
8mil PDF417	20 ~ 200 mm

The test is under ambient light 400 ~ 500 Lux.

IG521
(Equipped a type-C charge cable
& a 2.4G RF receiver dongle)

IG522
(Equipped a charge cradle
& a 2.4G RF receiver dongle)

Speciÿcations

● Physical Characteristics

Body Weight	184.9g（Scanner）/ 113.4g（Cradle）
Material	ABS
Dimension	L167 x W70 x H88mm（Scanner）
	L123 x W88.5 x H70 （Cradle）
Color Available	Black body, dark gray button and windows side

● Performance

Light Source	White light illumiation, Red bar aimer
Sensor	1280(H) x 800(V) pixels
Field of view	Horizontal – 35°, Vertical – 27°
Motion tolerance	35cm per second
Reading Distance	420 mm@20mil/0.5mm, PCS90%, Code39
Print Contrast Ratio(Minimum)	≥15%
Resolution	1D: ≥3mil/0.076mm PCS90%,CODE 39
	2D: 7mil/0.18mm PCS90%, QRCode
Reading Angle	
Pitch Angle	±5°~60° (±5°)
Skew Tolerance	±5°~55° (±5°)
Method of Communication	2.4G RF or Bluetooth (HID，SPP，BLE)

● Environmental

Operating Temp.	-20°C to 50°C (-4°F to 122°F)
Storage Temp.	-40°C to 60°C (-40°F to 140°F)
Relative Humidity	5% to 95% (Non-condensing)
Ambient light	100,000 Lux Max. (Sunlight)

● Reliability

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

● Power

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, EAN-13, ISBN, ISSN, Code 128, GS1-128, ISBT, Code 39, Code 32, Code 93, Code 11, Codabar(NW-7) , Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5(Straight 2 of 5) , Standard 2 of 5(IATA 2 of 5) , NEC 2of 5, MSI, Telepen, Trioptic, BC412, Febraban, Coupon.

2D Symbologies
QR Code, Micro QR Code, Data Matrix, PDF417, Micro PDF 417, MaxiCode, Aztec, HanXin Code, Pharma Code(One-Track), Codablock A, Codablock F, Dot Code, Grid Matrix.

Post code
HongKong 2 of 5(China Post), Korea Post, Australian Post, British Post, USPS Intelligent Mail, Japanese Post, Planet Code, Postnet Code, UPU 4-State, KIX Code.

Composite code
GS1 Databar(Omnidirectional, Limited, Expanded)，GS1 Composite Code, TLC 39 Code.

OCR character
OCR-B and Chinese ID Card OCR .

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

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