**GENERALSCAN**

# GS R3522 Ring Barcode Scanner

### Long working hours effectively reduced downtime

The 600mAh large-capacity battery supports up to 21 hours of use at a scanning frequency of 5 seconds. With this long working time, there's no need for frequent recharging, meaning tasks can proceed without interruption. This is especially critical in fast-paced environments like warehouse, logistics hubs, and retail stores, significantly improving workflow continuity and overall productivity.

### Wearing on the index finger, like a ring

The scanner can be easily worn on the index finger, just like wearing a ring. The ring scanner is small and lightweight, and will not affect the dexterity of the hand after wearing. The ring trigger is ergonomically designed, and the scanning is triggered by the natural bending of the index finger, without holding the scanner, to achieve "point and scan".

### Wide applicability

Almost all black and white and color 1D or 2D barcodes can be recognized. Support HID, SPP, BLE three transmission protocols. Support two modes of classic bluetooth and low energy bluetooth. USB mode supports keyboard and virtual serial port, adapting to various application interfaces.

### Global shutter ensures scanning accuracy and reliability

Global shutter can capture all pixels simultaneously, ensuring a distortion-free image. This is especially important for scanners, as visual artifacts such as wobble, tilt, and spatial aliasing caused by line-by-line exposure can be eliminated, improving scanning accuracy and reliability.

### The best-in-class scanning range is suitable for multiple applications

R3522 has the widest scanning range of any scanner in its class. With 5mil Code 39, for example, the scanning distance can reach up to 31cm, which is the best in its class. This can be a great solution to the paint points of the retail industry, enabling contactless scanning and optimizing the consumer experience. The pressure of checkout queues during peak hours can also be relieved, and the number of orders processed in a single hour can be increased from 120 to 180, enhancing the customer's shopping experience.

## ACCESSORIES

**Bluetooth Dongle**
GS GDA201

**Battery charger**
GS GCR202(8-slot)/203(16-slot)

**Battery Charger**
GS GCR201(Dual-Slot)

**Armband**
（AB1800）

**Ring holder**

# PRODUCT SPECIFICATION
Wearable Barcode Scanner GS R3522

## PHYSICAL PARAMETER

| | |
|---|---|
| Dimensions | 64.8mm(L) × 34.6mm(W) × 24.8mm(D) |
| Weight | 37.0g(Scanner body) |
| Battery Capacity | 600mAh |
| Charging | 5V⎓1A |
| Charging Time | 120min |
| Battery Life | 21h(scan once in 5 seconds) |
| Notification | LED, Buzzer, Vibration |

## PERFORMANCE CHARACTERISTICS

| | |
|---|---|
| Optical Resolution | 1280 x 800 pixels |
| Shutter | Global shutter |
| Sensor | 2D CMOS Image |
| Skew, Pitch & Roll | Skew tolerance: ±60° from normal |
| | Pitch tolerance: ±60° from normal |
| | Roll tolerance: 360° from normal |
| Illumination | White LED |
| Aiming | Red LED |
| Supported Symbologies | 1D: Code39, Code128, Code 39 full ascii, Trioptic Code39, Code 32, UPC-A, UPC-E, UPC-E1, UPC-E+, UPC-A+, EAN8/JAN8, EAN13/JAN13, Bookland EAN/ISBN, MSI, Codabar, Code11, Interleaved 2 of 5, Industrial 2 of 5, Chinese 2 of 5, Matrix 2 of 5, ISBT, GS1 Databar14, GS1 Databar Limited, GS1 Databar Expanded, GS1-128, Code93 |
| | 2D: PDF417, Micro PDF417, QR Code, DataMatrix, Micro QR, Hanxin, Grid Matrix, Aztec, Maxicode, GS1 QR, GS1 DataMatrix, GS1 Combosite(CC-A/CC-B/CC-C) |
| Interface | USB, Bluetooth |
| Offline Mode | Support storage of 3839 EAN-13 barcodes |

## BLUETOOTH

| | |
|---|---|
| Bluetooth Protocol | HID Keyboard, SPP, and BLE |
| Bluetooth Range | Communication distance connected to mobile phone > 164.04ft./50m (without obstructions) |
| Bluetooth OTA | Bluetooth OTA |

## USB

| | |
|---|---|
| USB Interface | USB Type-C |
| USB Protocol | USB HID Keyboard, USB VCP (Virtual Serial Port) |
| Multilingual Keyboards | USB HID mode supports multilingual keyboards |

## USER ENVIRONMENT

| | |
|---|---|
| Ambient Light | Max 100000lux (direct sunlight) |
| Operating Temperature | -20°C~65°C |
| Storage Temperature | -40°C~70°C |
| Humidity | 5% - 95% non-condensing |
| Drop Spec. | Multiple 4.9ft./1.5M drops to concrete |
| Tumble Spec. | Scanner body withstands 20,000 times from 3.3ft./1M with frequency of 10 times per minute. |
| Electrostatic Discharge (ESD) | ±8kv DC discharge, ±15kv air discharge |
| Certificates | CE, FCC, KC, TELEC, RoHS, ANATEL, NOM, EAC |

## SOFTWARE SUPPORT

Generalscan Keyboard Pro, Generalscan SDK Demo, Generalscan OTA Tools, Generalscan iCode, G-Service

## DECODE RANGES

| | |
|---|---|
| 3 mil Code 39 | 60.0 - 190.0MM |
| 5 mil Code 39 | 30.0 - 310.0MM |
| 5 mil QR Code | 85.0 - 120.0MM |
| 13 mil EAN13 | 45.0 - 520.0MM |

# GENERALSCAN

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