

# GS R3521 Ring Barcode Scanner

## Metal frame structure

With this delicate design, the PCBA is protected from drops and bumps due to the metal protective frame, which ensures reliable operation. Passed the 1 meter 20,000 times rolling test, the performance is reliable.

## Shell material is Hard

The hardness of shell(ABS+PC material) has been greatly improved, is impact-resistant, tensile-resistant, and meets enterprise-grade standards; The imager window(acrylic material) has high strength and strong light transmission.

## Scan engine, Zebra SE4107

Bright, rectangular illumination field and LED aiming spot makes scanning more fast and easy. White illumination easily captures color barcodes.

## Long battery life

600mAh large-capacity battery, up to 13 hours of use. The battery can be replaced quickly, and it is equipped with dual-charge and multi-charge chargers. Up to 16 batteries can be charged at the same time to ensure continuous work in multiple shifts.

## Ring Wear

Like wearing a ring, it is small, light and efficient. With Ring trigger, workers can choose and decide to use left or right hand to work and swap scanning hands on the fly.

## 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.

## Application fields

The scanner can be widely used in manufacturing, warehousing, logistics, retail and express transportation, and has incomparable advantages in improving production efficiency and accuracy.



## 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 R3521

### PHYSICAL PARAMETER

Dimensions	64.8mm(L) × 34.6mm(W) × 24.8mm(D)
Weight	39.2g(Scanner body)
Battery Capacity	600mAh
Charging	5V---1A
Charging Time	120min
Battery Life	12.9h(scan once in 5 seconds)
Notification	LED, Buzzer, Vibration

### PERFORMANCE CHARACTERISTICS

Optical Resolution	1280 x 960 pixels
Shutter	Rolling 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	Green LED
Supported Symbolologies	1D: Code39, Code128, Codabar, Code11, UPC/EAN, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Korean 3 of 5, GS1 Databar, Code93, MSI, Composite 2D: PDF417, Postal CodesMicro PDF, Micro PDF417, Code128 Emulation, Aztec, Data Matrix, GS1 Data Matrix, QR Code, GS1 QR, Maxicode, Micro QR, Han Xin, Grid Matrix
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 107639lux (direct sunlight)
Operating Temperature	-10°C~50°C
Storage Temperature	-10°C~50°C
Humidity	5% - 85% 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

5 mil Code 39	61.0 - 241.0MM
5 mil Code 128	71.0 - 229.0MM
6.6 mil PDF417	61.0 - 203.0MM
10 mil DataMatrix	74.0 - 216.0MM
100% UPC-A	46.0 - 495.0MM
15 mil QR Code	30.0 - 292.0MM
20 mil QR Code	30.0 - 356.0MM

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