

# GS R5524 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 SE5500

Green laser aiming, able to accurately scan various barcodes.  
Use liquid zoom lens, barcode recognition is more accurate and faster.  
2688×1520 resolution, 4 million pixel ultra-high pixel camera, scan image clear.

## Large scanning range

When scanning 100% UPC-A barcode, the distance can reach 1800mm.  
When scanning 100 mil Code39 barcode, the distance can reach 4200 mm.

## 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.

## Use Zebra's latest decoding solution PL5000

GS R5524 has shorter decoding time, larger range, excellent mobile adaptability, more advanced barcode and data acquisition and processing functions, supports the latest code system(Dot Code) and OCR(text recognition, image analysis and processing, and obtains its text information), greatly improving the efficiency.

## Wide applicability

GS R5524 has unparalleled barcode recognition performance and can recognize almost 1D or 2D barcodes. It supports batch upload of real-time and offline data, as well as multiple data format processing, which can provide a perfect solution for warehousing, distribution centers and manufacturing.

## 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 R5524

### PHYSICAL PARAMETER

Dimensions	70.0mm(L) × 36.0mm(W) × 26.8mm(D)
Weight	37.5g(Scanner body)
Battery Capacity	600mAh
Charging	5V ---1A
Charging Time	120min
Battery Life	6.9h(scan every 5 seconds, 10 centimeter reading) 4h(scan every 5 seconds, 1 meter reading)
Notification	LED, Buzzer, Vibration

### PERFORMANCE CHARACTERISTICS

Optical Resolution	2688 x 1520 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
Field of View	Horizontal 37°, Vertical 21.4°
Illumination	White LED
Aiming	Green Laser
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, DotCode, OCR
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

Note: Printing resolution, contrast and ambient light dependent

3 mil Code 39	69.0 - 411.0MM
5 mil Code 39	64.0 - 676.0MM
5 mil PDF417	71.0 - 498.0MM
6.67 mil PDF417	66.0 - 650.0MM
10 mil DataMatrix	56.0 - 688.0MM
13 mil 100% UPCA	64.0 - 1800.0MM
15mil Code 128	182.0 - 1829.0MM
20mil Code 39	FOV limited - 2769.0MM
55 mil Code 39	FOV limited - 7442.0MM
100 mil Code 39	FOV limited - 14072.0MM
100 mil DataMatrix	FOV limited - 6858.0MM

## GENERALSCAN

#### Generalscan Inc.

📍 200 Buckelew Ave, Jamesburg,  
NJ 08831, USA  
☎ +1 732 895 6821

#### Generalscan Electronics GmbH

📍 Hochstraße 42, 52525  
Heinsberg Germany  
☎ +49 1516 7161256

#### Generalscan LLC

📍 Calle San Luis Potosi 51,  
Roma Norte 06700,  
Ciudad de México  
☎ +52 5552727861

#### GENERALSCAN ELEKTRONIK VE TEKNOLOJİ SAN. VE TİC. LTD. ŞTİ.

📍 FSM Mah. Siir Sk. Relux Plaza No 10,  
Ümraniye 34764,  
İstanbul, Turkey  
☎ +90 542 478 5873