

# GS R5523 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, Honeywell N6803

The engine N6803 takes the reading range required in warehouse and distribution centers to new heights. Its dual lens architecture and rapid switching mechanism between near and far distances eliminate the need for refocusing, saving valuable time. The Smart Adaptus™ 8.0 technology integrated in GS R5523 extends the single lens read range of standard range optics and dual lens design for simultaneous close and far image capture. Reads barcodes from 6CM to 10M.

## Use Honeywell's decoding solution GEN8 DB

Equipped with ultra-powerful processor, combining with comprehensive barcode symbology support, the GEN8 DB delivers superior decoding performance for all barcode types and beyond. GEN8 DB has 1.2GHz dual processor and 4x memory speed, enables near-term and future application flexibility over the total cost of ownership, further providing flexibility tailored to changing development needs.

## 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

GS R5523 has unparalleled barcode recognition performance and can recognize almost all 1D or 2D barcodes.

## Application field

GS R5523 can be used perfectly in warehouse and distribution centers. It has incomparable advantages in improving quality and accuracy.



## ACCESSORIES



**Bluetooth Dongle**  
GS GDR201



**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 R5523

### PHYSICAL PARAMETER

Scanner Dimensions	70.00MM(H) × 36.00MM(W) × 26.80MM(D)
Scanner Weight	38.7g (scan body)
Battery Capacity	600mAh
Charging	5V= 1A
Charging Time	100min
Battery Life	8 hours (scan every 5 seconds)
Notification	LED, Buzzer, Vibration

### PERFORMANCE CHARACTERISTICS

Optical Resolution	Near: 1920 pixel x 1200 pixel Far: 1280 pixel x 800 pixel
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	Near:48°(H)x21°(V) Far:20°(H)x12°(V)
Illumination	White LED
Aiming	Red Laser
Supported Symbolologies	1D: Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation 2D: Codablock A, Codablock F, PDF417, MicroPDF417, Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin), Grid Matrix, Dot Code Postal: Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet
Interface	Scanner: USB, Bluetooth
Offline Mode	Support storage of 5000 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 100,000lux (direct sunlight)
Operating Temperature	-10°C~50°C
Storage Temperature	-10°C~50°C
Humidity	5% - 85% non-condensing
Drop Spec.	Survive from 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 minutes.
IP Level of Glove	Washable
Electrostatic Discharge (ESD)	±8kv DC discharge, ±15kv air discharge
Certificates	CE, FCC, TELEC, RoHS, NOM, IFT, PSE, IEC 62133 EU Battery Directive, US Public Law 104-142

### SOFTWARE SUPPORT

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

### DECODE RANGES

5 mil Code 39	137 - 396 mm
7 mil PDF	137 - 415 mm
10 mil Code 128	90 - 1399 mm
10 mil QR Code	128 - 412 mm
13 mil UPC	68 - 1690 mm
20 mil Code 39	88 - 2848 mm
55 mil Code 39	— - 5912 mm
100 mil Code 39	— - 9849 mm

## 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