

# GS R3523 Ring Barcode Scanner

## Red cross laser aiming ensures precise targeting and efficient scanning

Red cross laser aiming enables precise aiming, speeds up barcode alignment, improves efficiency, and is clearly visible against most backgrounds, making it suitable for complex environments, so it reduces misreading, improves aiming accuracy, and enhances the user experience.

## Long life, minimizing interruptions

Equipped with a high-capacity 600mAh battery, the R3523 can operate continuously for up to 21 hours with a scanning interval of every 5 seconds. This extended battery life minimizes the need for frequent charging, ensuring uninterrupted workflow. It's a crucial advantage in demanding environments like warehouses, logistics centers, and retail stores, where consistent performance is essential for maintaining productivity.

## Excellent scanning range for a wide range of applications

The R3523 offers an industry-leading scanning range, making it ideal for a wide variety of use cases. For instance, it can read 13mil EAN13 barcodes from distances of up to 70 cm—an unmatched performance in its category. This extended range is especially beneficial in retail industries, enabling truly contactless scanning that enhances the overall shopping experience. It helps reduce checkout congestion during peak hours, boosting hourly order processing capacity from 120 to 180 and improving operational efficiency.

## White illumination realizes natural light restoration for clearer reading

The white illumination offers more natural color rendering, which helps in reading colored barcodes or labels. In addition, softer lighting reduces eye strain during prolonged use. What's more, it ensures barcode clarity under various ambient lighting conditions, improving stability.

## Wearing like a ring, freeing up hands and improving efficiency

The scanner can be easily worn on the index finger, just like wearing a ring. The ring scanner is small and lightweight, and does not interfere with hand when worn. The ring trigger is ergonomically designed, and the scanning is triggered by the natural bending of the index finger, which greatly improves productivity.



## 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 R3523

### 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 Cross Laser
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 Composite(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

3.3 mil Code 39	110.0 - 190.0MM
5 mil Code 39	80.0 - 310.0MM
15 mil QR Code	40.0 - 390.0MM
13 mil EAN13	60.0 - 700.0MM
10 mil DataMatrix	90.0 - 270.0MM
6.7 mil PDF417	110.0 - 260.0MM



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