

# GS R1521 Thumbbutton Barcode Scanner

**Rugged internal structure owes to protecting PCBA with aluminum alloy frame**

With this delicate design, the PCBA is protected from drops and bumps due to the metal protective frame, which ensures reliable operation.

**Robust external structure with enhanced hardness of body and imager window**

The hardness of shell and imager window has been greatly improved, which contributes to the enterprise-class ruggedness and durability.

**Versatile wearable options**

With Thumbbutton, workers can wear scanners around the neck or on a belt or just hold it in hand with switching freely between left and right hand. In a word, keeping the scanner at hand is ideal for occasional scanning.

**QR code Scanning engine with ultra-low energy**

Global shutter, accurate and fast barcode recognition for mobile scanning scenes. 640x480 resolution, clearer images when scanning barcodes.

**The rapidly-replaced battery minimizes the downtime**

600mAh battery provides a longer battery lifecycle and ensures uninterrupted full-shift operation. The feature of swappable helps to increase the productivity during receiving, inventorying, picking, sorting, packing, etc.

**Maximum ROI with multiple replaceable parts**

The removable and swappable battery and trigger assemblies and retractable lanyard compatible with all the Generalscan scanner bodies, maximizing return on investment.

**Application fields**

GS R1521 can be used widely in manufacturing, warehousing, logistics, retail, and transportations industries. It has incomparable advantages in improving quality and accuracy.



**ACCESSORIES**



**Bluetooth Dongle**  
GS GDA201



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



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



**Armband**  
(AB1800)



**Thumbbutton trigger button + Lanyard**

## PRODUCT SPECIFICATION

Wearable Barcode Scanner GS R1521

### PHYSICAL PARAMETER

Dimensions	2.6in.(L) x 1.4in.(W) x 1.0in.(H) 66.54mm(L) x 34.73mm(W) x 25.16mm(H)
Weight	25.8g(Scanner body)
Battery Capacity	600mAh
Charging	5V---1A
Charging Time	120min
Battery Life	18h(scan once in 5 seconds)
Notification	LED, Buzzer, Vibration

### PERFORMANCE CHARACTERISTICS

Optical Resolution	640x480 pixels
Shutter	Global Shutter
Sensor	2D CMOS Image
Skew, Pitch & Roll	Skew tolerance: $\pm 55^\circ$ from normal Pitch tolerance: $\pm 55^\circ$ from normal Roll tolerance: $360^\circ$ from normal
Illumination	Cold White LED
Aiming	Red LED
Supported Symbologies	1D: Code 128 (ISBT 128, AIM 128, GS1 128), EAN-13, EAN-8, UPC-E, UPC-A, ISBN, ISSN, Code11, Interleaved 2 of 5, Code39, Code93, Code32, Codabar, Matrix 2 of 5, Industrial 25, IATA25, MSI Plessey, GS1 DataBar, Plessey, Febraban 2D: QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode, Han Xin Code, Dotcode, Composite
Interface	Scanner: USB, Bluetooth
Offline Mode	Support storage of 4388 EAN-13 barcodes

### BLUETOOTH

Bluetooth Protocol	HID Keyboard, SPP, and BLE
Bluetooth Range	Communication distance connected to mobile phone > 98.43ft/30m (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	14°F ~ 122°F / -10°C~50°C
Storage Temperature	14°F ~ 122°F / -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 minutes.
Electrostatic Discharge (ESD)	$\pm 8$ kv DC discharge, $\pm 15$ kv 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

13 mil EAN-13	50.0 - 325.0 MM
5 mil Code 39	55.0 - 135.0 MM
13 mil Code128	50.0 - 330.0 MM
15 mil QR	30.0 - 190.0 MM
10milData Matrix	40.0 - 130.0 MM
6.67 mil PDF417	50.0 - 135.0 MM

## GENERALSCAN

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