

RF5520

Ring + Handheld 2D Portable Barcode Scanner



Product Description

RF5520 is NETUM's latest dual-mode portable barcode scanner, featuring both ring-wearable and handheld operation.

Durable Housing: Made of high-strength TPR and modified ABS, the casing is wear-resistant and impact-resistant, suitable for complex industrial environments like warehousing and logistics.

Compact & Portable: Lightweight and compact design enables easy carrying and operation in both ring and handheld modes, ideal for mobile workflows.

Industrial Design: Rugged lines with a matte finish, ergonomically optimized for both wearing comfort and handheld grip.

Application Scenarios

Warehouse Sorting:

Workers scan with one hand while picking goods with the other, improving efficiency with hands-free operation.

Retail Checkout:

Cashiers scan items either handheld or in ring mode for flexibility during peak hours.

Logistics & Delivery:

Courier operators can scan parcels even with gloves on, adapting to harsh outdoor conditions.

Product Features

- **Dual-mode scanning, seamless scene switching:** supports ring-type and handheld scanning, flexible switching, meeting the needs of fast scanning in different scenes, and improving operational efficiency
- **RF5520 has a built-in high-precision barcode engine,** which can quickly identify damaged and contaminated barcodes in 0.1 seconds, improving the efficiency of warehouse inventory and logistics sorting.
- **RF5520 is compatible with removable batteries:** The battery-type removable design is easy to replace quickly, ensuring continuous operation of the equipment, reducing downtime, and suitable for high-intensity working environments.

Manufacturing Lines:

Workers scan parts and operate robotic arms simultaneously, seamlessly switching between handheld and wearable modes.

Barcode Engine Specifications

1 Performance		
1.1	Sensor Resolution	1280 x 960 pixels, rolling shutter
1.2	Aimer LED:	Green LED
1.3	Illumination	2 Warm-White LED
1.4	LED classification	According to IEC/EN 62471, it is a risk-exempt group LED
2 Scanning		
2.1	Field of View:	46° (H) X 35° (V)
2.2	Motion Tolerance:	Pitch ±60°, Skew ±60°, Roll 360°
2.3	Minimum Print Contrast:	≥ 30%
2.3	Supported Symbologies:	<p>2D</p> <p>PDF417、MicroPDF417、Code 128 Emulation、QR Code、MicroQR、Data Matrix 、Maxicode、Aztec</p> <p>1D</p> <p>Code128 (UCC/EAN-128、GS1-128、ISBT 128) 、UPC/EAN(UPC-A、UPC-E、EAN-8/JAN-8、EAN-13/JAN-13、ISBN、ISSB EAN)、Code39、Code32、Code93、Code11、Interleaved 2 of 5 (ITF) 、Discrete 2 of 5 (DTF) 、Codabar (NW-7) MSI、Chinese 2 of 5、Matrix 2 of 5、Korean 3 of 5、Inverse 1D、Postal Codes、</p>

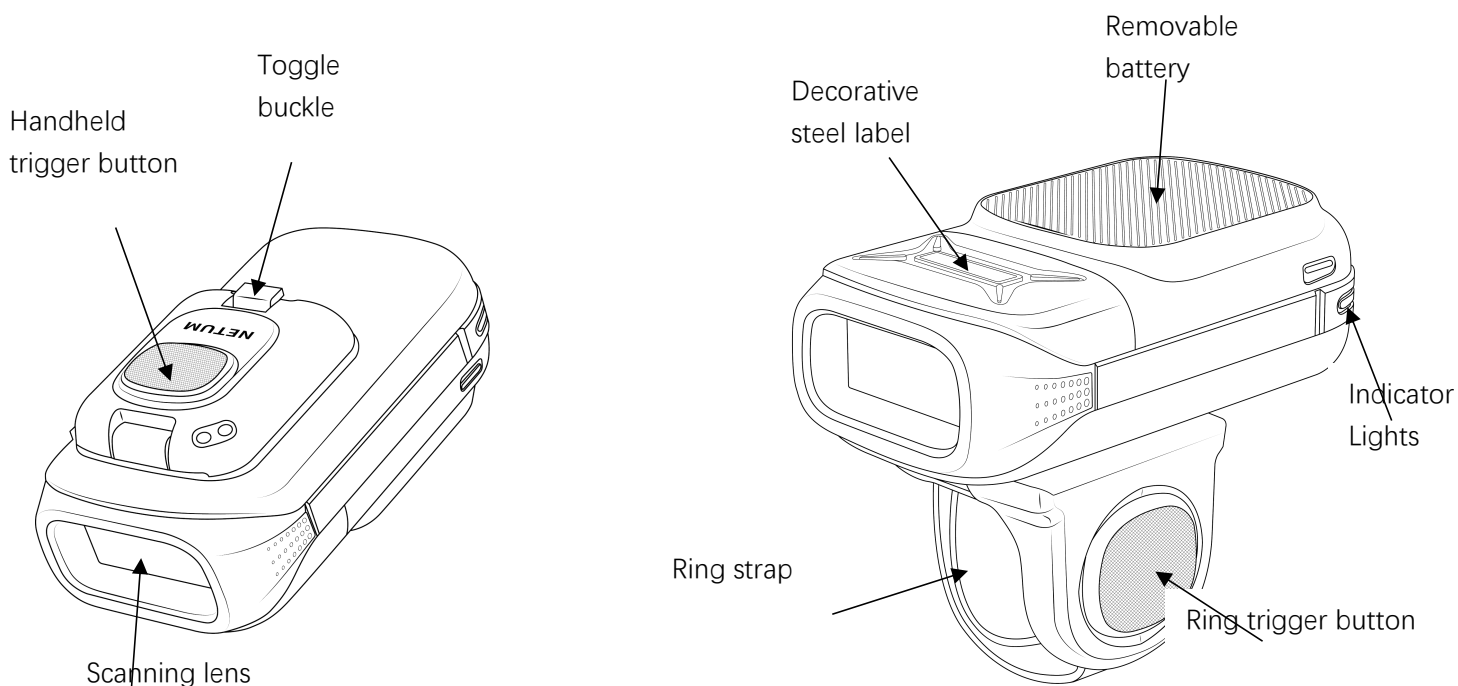
		GS1 DataBar、Composite
2.4	Decoding Precision:	1D: ≥ 3 mil 2D: ≥ 5 mil
2.5	Scan Range Examples	5 mil Code 39 2.4 in/6.1 cm to 9.5 in/24.1 cm 5 mil Code 128 2.8 in/7.1 cm to 9.0 in/22.9 cm 6.67 mil PDF 417 2.4 in/6.1 cm to 8.0 in/20.3 cm 10 mil DataMatrix 2.9 in/7.4 cm to 8.5 in/21.6 cm 100% UPCA 1.8 in/4.6 cm to 19.5 in/49.5 cm 15 mil QR 1.2 in/3.0 cm to 11.5 in/29.2 cm 20 mil QR 1.2 in/3.0 cm to 14.0 in/35.6 cm

Product Parameter

3	Wireless Parameters	
3.1	Wireless Method:	Bluetooth 4.2 (HID, SPP, BLE)
3.2	Transmission Range:	≤ 30 meters (line of sight)
3.3	Battery Capacity:	1000Mah
3.4	Operating Time:	Approx. 5 hours (continuous use)
3.5	Scanning Cycles:	Approx. 18,000 scans (1 scan/sec)
3.7	Feedback Indicators:	Buzzer, LED, Vibration
3.8	Trigger Mode:	Ring-wearable
		Handheld button
4	Electrical Characteristics	
4.1	Operating Voltage:	5 VDC \pm 5%

4.2	Current @ 3.3VDC	Operating: 310mA, Standby: $\leq 0.6\mu\text{A}$
5 Physical Dimensions		
5.1	Dimensions (mm):	Ring: 72 × 50 × 55 mm Handheld: 72 × 50 × 32 mm
5.2	Interface:	Type-C, cable length: 1.2m
5.3	Color:	Gray + Black
5.4	Material:	ABS+TPR+PC
5.5	Weight:	Ring: ~72g, Handheld: ~68g
6 Operating Environment		
6.1	Operating Temperature:	-20°C to 50°C / -4°F to 122°F
6.2	Storage Temperature:	-30°C to 70°C / -22°F to 158°F
6.3	Storage Humidity:	5%-90%
6.4	Ambient Light Tolerance:	Up to 107,639 lux (direct sunlight)

Installation & Usage Guides



Installation Tutorial

Ring installation tutorial



Handheld Installation Tutorial



①



②



③



④

Battery removal tutorial

