

RF9520X

Ring type + handheld 2D portable scanner



Product Description

RF9520X is the first dual-mode portable scanner for ring + handheld use newly launched by NETUM.

Durable material: It adopts two different materials of high-strength soft rubber TPR and hard rubber ABS shell design, which is wear-resistant and impact-resistant, and can withstand complex industrial environments such as warehouses and logistics, and has stable performance in long-term use.

Compact and portable: It is small in size, light in weight, and easy to wear. Whether it is worn by a ring or handheld operation, it can be easily carried and is suitable for mobile operations.

Industrial design style: tough lines + matte texture, professional industrial design not only conforms to the aesthetics of production scenes, but also optimizes the grip and wearing comfort through ergonomics.

Application Scenario

Warehousing and sorting:

"Warehouse sorters put on a ring, carry goods with their left hand and scan codes with their right hand. The ring design allows them to scan codes while carrying goods, freeing their hands and improving efficiency.

Warehousing scenarios:

"Wear the ring and scan codes quickly", sorters operate PDAs with one hand and wear the device with the other hand to scan codes, increasing efficiency by 40%.

Manufacturing production lines:

Product Features

- Dual-mode scanning, seamless scene switching: supports ring-type and handheld scanning, flexible switching, meets the needs of fast scanning in different scenes, and improves operational efficiency
- RF9520X has a built-in 2688 x 1520 four-megapixel C-MOS sensor with excellent scanning recognition.
- Long-distance barcode engine: large aperture lens and targeted image processing algorithm, showing strong competitiveness in the field of long-distance barcode scanning.
- RF552 is compatible with removable batteries: battery-type removable design, easy to replace quickly, ensure continuous operation of the equipment, reduce downtime, suitable for high-intensity working environment.

“Auto parts production line workers use rings to scan parts barcodes and operate robotic arms for assembly with one hand. The dual-mode switch allows complex workstations (handheld) and assembly lines (rings) to be seamlessly connected.

Sorting in logistics parks: Scanning codes in the air, zero-contact operation

Express sorting center conveyor belt, sorters stand 3 meters away from the conveyor belt, and use rings/handheld devices to scan package barcodes (1D/2D) at a distance (such as express delivery bills in motion)

Storage high shelf inventory: Scanning codes while standing, double efficiency

Warehouse shelves are 5-10 meters high, and warehouse managers can stand 3 meters away from the ground to scan the barcodes of the top-level boxed goods

Barcode module parameters

1	Optical performance	
1.1	Sensor resolution:	2688 x 1520
1.2	Aiming LED:	Green Laser 520 nm
1.3	Illumination:	2 Warm-White LED
2	Scanning performance	
2.1	Field of view:	46° (H) X 35° (V)
2.2	Offset, tilt and rotation:	Tilt ±60°, deflection ±60°, rotation 360°
2.3	Printing contrast:	≥ 30%
2.3	Decoding capabilities:	1D: All major 1D, Digimarc 2D: PDF417, MicroPDF417, Datamatrix, QR Code, Micro QR Code, Aztec, Composite, TLC-39, MaxiCode, Dotcode; Grid Matrix Postal: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX), Mailmark
2.4	Accuracy:	1D: ≥ 3 mil 2D: ≥ 5 mil
2.5	Scanning performance:	3 mil Code 39 Near Distance: 2.7 in./6.9 cm Far Distance: 16.2 in./41.1 cm

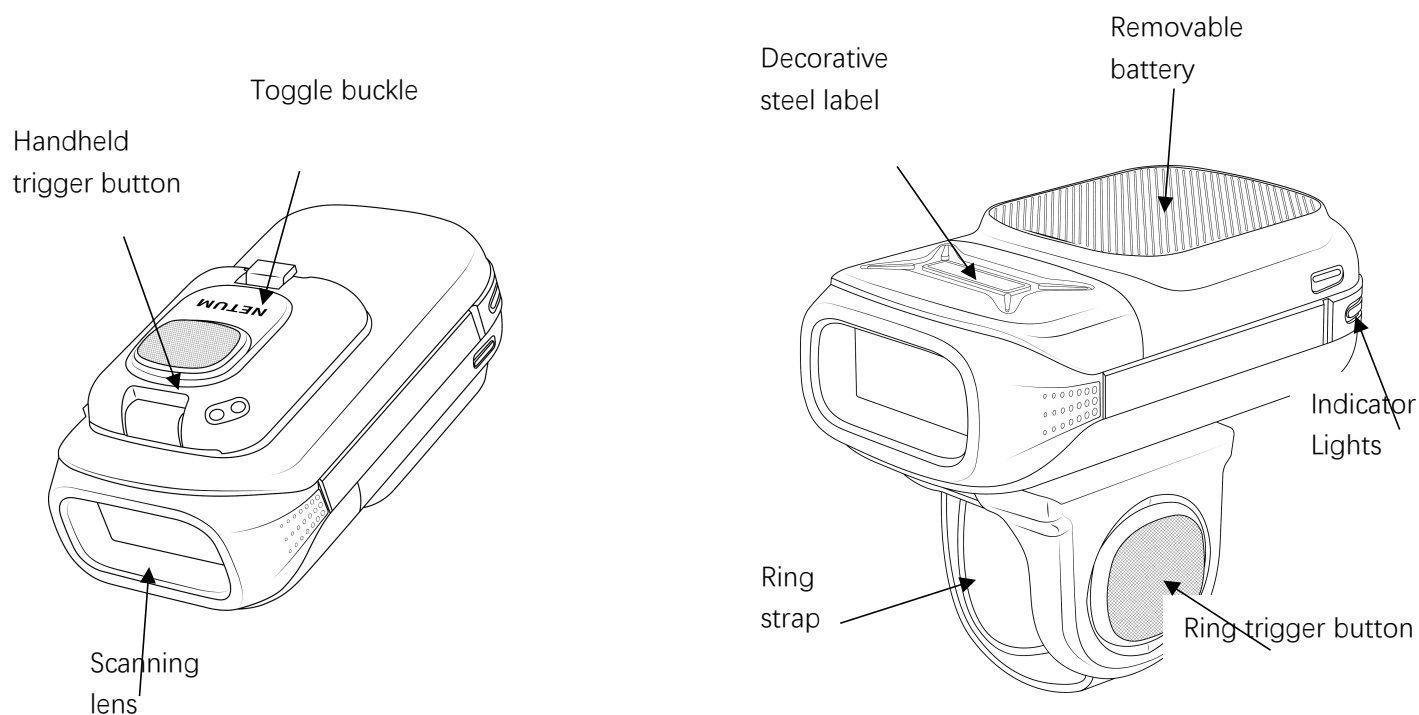
		5 mil Code 39 Near Distance: 2.5 in./6.4 cm Far Distance: 26.6 in./67.6 cm 5 mil PDF417 Near Distance: 2.8 in./7.1 cm Far Distance: 19.6 in./49.8 cm 6.7 mil PDF417 Near Distance: 2.6 in./6.6 cm Far Distance: 25.6 in./65.0 cm . 10 mil DataMatrix Near Distance: 2.2 in./5.6 cm Far Distance: 27.1 in./68.8 cm 100% UPC (13 mil) Near Distance: 2.5 in./6.4 cm Far Distance: 71 in./180 cm 15 mil Code 128 Near Distance: 7.2 in./18.2 cm2 Far Distance: 72 in./182.9 cm
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Product Specifications

1	Wireless Parameters	
3.1	Transmission Mode:	Wireless Bluetooth 4.2 (Supports Bluetooth HID SPP BLE)
3.2	Communication	Open Visible Distance $\leq$ 30 meters

	Distance:	
3.3	Battery Capacity:	1000Mah
3.4	Battery Life:	≈ 5 hours (continuous operation)
3.5	Use Times:	≈ 18,000 times (scan once per second)
3.7	Prompt Mode:	Buzzer, LED Indicator, Vibration
3.8	Scan Mode:	Wearable Ring Button Trigger Scan
		Portable Handheld Button Trigger Scan
4	Electrical Characteristics	
4.1	Operating Voltage:	5 VDC±5%
4.2	Current @3.3VDC	Operating Current: 310mA Standby Current: ≤0.6μA
5	Physical Dimensions	
5.1	Dimensions Length x Width x Height (mm):	Ring: 72*50*55mm Handheld: 72*50*32mm
5.2	Cable:	Type-C interface, cable length: 1.2m
5.3	Color:	Gray + Black
5.4	Material:	ABS+TPR+PC
5.5	Weight:	≈ 72g Handheld ≈ 68g
6	Operating environment	
6.1	Operating temperature:	-4° F to 122° F / -20° C to 50° C
6.2	Storage temperature:	-22° F to 158° F / -30° C to 70° C
6.3	Storage humidity:	5%-90%
6.4	Ambient lighting:	Up to 107,639 lux (under direct sunlight)

Product Introduction



Installation Tutorial

Ring installation tutorial



Handheld Installation Tutorial



①



②



③



④

Battery removal tutorial

