MS633 Series

Bluetooth 2D Ring Scanner

MS633 / MS633LR

56g Lightweight Design | 12m Barcode Reading Distance | Support ScanBridge Utility & Scanner SDK

The MS633 Series ring scanner boasts a wearable design, providing unparalleled freedom of movement. This design allows for comfortable barcode scanning tasks, enabling users to keep both hands free for other activities.

Lightweight Design

Weighing just 56 grams, the MS633 Series Bluetooth 2D Ring Scanner combines an incredibly lightweight design with powerful scanning capabilities, making it ideal for comfortable and efficient use over long periods. Designed for various industries, including retail, inventory, warehousing, and logistics, its focus on ease of use and minimizing user fatigue enhances both comfort and operational efficiency in professional settings.

Superior Middle Range Scanning Capability

Featuring an exceptional middle range scanning capability of up to 12 meters, the MS633 Series stands out in its class. This allows users to effortlessly capture barcodes from a distance, enhancing workflow and reducing the need to physically handle items. Ideal for environments where space and accessibility are challenges, this scanner ensures accuracy and speed, boosting the workflow for inventory management and logistic operations.

Hands-Free Operation

The MS633 Series enhances workplace flexibility and comfort with its practical hands-free design, wearable on one or two fingers. Adaptable for both left and right-handed users, it improves usability across different work environments. This adaptability supports easy hand-switching to reduce fatigue and ensure continuous operation, making it ideal for high-mobility sectors. Its design contributes to safety and productivity by allowing users to keep their hands free for other tasks, aligning with demands for efficiency and operational safety.

Flexible Wireless Communication

Thanks to its Bluetooth functionality, the MS633 Series enhances workspace mobility by supporting wireless communication over considerable distances. This feature allows for seamless data collection processes across extensive areas, ensuring employees stay connected and maintain productivity, even when they're not at their desks. It's particularly advantageous in large environments like warehouses and retail spaces, where the ability to move freely without losing connection is crucial for efficiency.

Unitech Software Solutions Support

Enhanced by the support for Unitech's proprietary software solutions, including ScanBridge Utility and Scanner SDK, the MS633 is not just a tool but a comprehensive solution. These software integrations allow for a tailored user experience, ensuring the scanner operates at peak efficiency within your specific operational ecosystem. The inclusion of these solutions underscores the scanner's versatility, enabling it to meet diverse industry requirements and streamline workflows.

Features

- Lightweight and unique wearable ring design
- Premier barcode reading distance : Up to 12M (LR version)
- One push rotate design allows right and left hand operation switch easily
- Flexible wireless design for extended operation ranges
- Changeable and rechargeable battery pack
- Full Shift Battery Life: Up to 9 Hours
- Mounted on two fingers or one finger to enhance the operation stability
- Instant decoding feedback: LED, Buzzer and Vibrator indicators
- Support unitech software solutions, ScanBridge Utility and Scanner SDK

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MS633 Series
Specifications

MS633   MS633 LR

Optical & Performance

Sensor	MS633: CMOS Image (1280 x 960 pixels)
	MS633 LR: CMOS Image (2688 x 1520 pixels)
Aiming Element	Green Laser
Illumination	MS633: 1 Warm-White LED
	MS633 LR: 2 Warm-White LED
Ambient Light	Max 107,639 lux (direct sunlight)
Skew Angle	±60°
Pitch Angle Sensor	±60°
Roll Angle	360°
Field of View	MS633: 44.5° horizontal, 33.5° vertical
	MS633 LR: 37° horizontal , 21° vertical

Depth of Field

MS633:
5mil Code39: 6.1cm~24.1cm/2.4in.~9.5in.
5mil Code128: 7.1cm~22.9cm/2.8in.~9.0in.
6.67mil PDF417: 6.1cm~20.3cm/2.4in.~8.0in.
10mil DataMatrix: 7.4cm~21.6cm/2.9in.~8.5in.
100% UPCA: 4.6cm~49.5cm/1.8in.~19.5in.
15mil QR Code: 3.0cm~29.2cm/1.2in.~11.5in.
20mil QR Code: 3.0cm~35.6cm/1.2in.~14.0in.

MS633 LR:
3mil Code 39: 6.9cm~41.1cm/2.7in.~16.2in.
5mil Code 39: 6.4cm~67.6cm/2.5in.~26.6in.
5mil PDF417: 7.1cm~49.8cm/2.8in.~19.6in.
6.7mil PDF417: 6.6cm~65cm/2.6in.~25.6in.
10mil DataMatrix:
5.6cm~68.8cm/2.2in.~27.1in.
100% UPC(13mil): 6.4cm~180cm/2.5in.~71in.
15mil Code 128: 18.2cm~182.9cm/7.2in.~72in.
200mil DataMatrix:
20cm~1440cm/7.9in.~566.9in.
200mil QR: 25cm~1800cm/9.8in.~708.7in.

REGULATORY APPROVALS

CE, FCC, TELEC, NCC, BSMI, RoHS

Communication

Radio	Bluetooth® HID Keyboard, SPP and BLE
Wireless Coverage	> 164.04ft./50m(without obstructions)
Host Interface supported	USB Type-C
	(USB HID Keyboard, USB VCP (Virtual Serial Port)

Mechanical

Dimension	MS633: 64.8mm(L)×34.5mm(W)×24.7mm(D)
	MS633 LR: 70.0mm(L)×36.4mm(W)×28.4mm(D)
Weight	MS633: 56g / MS633 LR: 67g
Trigger Switch Life	500,000 times

Symbologies

1D Barcodes	Code39, Code128, Codabar, Code11, UPC/EAN, 2of5 Databar, Code39, MSI, UK Plessy, Telepen, Composite, TLC-39
2D Barcodes	Postal Codes, PDF, Micro PDF, Composite, TLC-39, Aztec, Data Matrix, QR, Maxicode, Han Xin, Grid Matrix, OCR

Electrical

Indicator	LED, Buzzer, Vibration
Battery Capacity	600mAh
Battery Charging time	2hrs.
Operating Time	9hrs.

Environmental

ESD Protection	Functional after 4K Contact and 8K Air
Mechanical Shock	Multiple 4.9 ft./1.5 m drops to concrete over the operating temperature range
Operating Temperature	14°F ~ 122°F / -10°C~50°C
Storage Temperature	14°F ~ 122°F / -10°C~50°C
Relative Humidity	5% to 85% non-condensing

Accessories

600mAh Battery
Finger Holder
USB Type-C cable
Power Adapter

What comes in the box

The standard package contents:
MS633 Scanner
600mAh Battery
Finger Holder
USB Type-C cable
Quick Guide

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04/24 Rev.B(2)