LIBA Reader

LR50-N6 Bluetooth Ring Scanner

A single-finger rugged 2D ring barcode scanner

The LR50-N6 features a comfortable, lightweight, and robust industrial design. Workers get ergonomic mounting options, maximum ease of use, plus reliable scanning of every barcode. The rugged design is intended for industrial environments such as warehouses and manufacturing floors, while its modern design and small footprint make it equally suitable for customer-facing areas.

Features

- Lightweight and small size (Only 40g with Battery, suitable to one finger)

- High performance Honeywell scan engine N4680 inside

- Changeable ring-trigger integration set (Scanner body and the trigger integration set can be detached and combined)

- Enhanced transmission distance (BLE5.0, roaming up to 20m)

- Enhanced operation time (500 mAh built-in battery, 13.5 working hours)

- Flexible charging methods (Magnetic interface or traditional Micro-USB)

- Multiple LEDs blink to indicate

Markets and Applications

- Order Commissioning (Picking by Scan/Voice)
- Manufacture (Inventory management, Assembly and Verification)
- Warehouse/Distribution (Picking, Sorting, Packing and Stock-In/Out)
- Transportation/Logistics (Sortation, Truck loading, Shipping and Receiving)
- Retail (Price mark down, Inventory in store)
- Express Delivery
- Product identification

Physical Characteristics

Dimensions	2.01 in. L x 1.38 in. W x 0.71 in. D (1.67 in. H with trigger)
	51 mm L x 35 mm W x 18 mm D (42.5 mm H with trigger)
Weight	1.41 oz./40 g
Battery	500 mAh Li-ion battery

Performance Characteristics

Optical Resolution	640 x 480 pixels (Global shutter)
Scan Engine	Honeywell N4680
Charge Time	2.5 Hours
Battery Life	13.5 working hours (scan every 5 seconds)
Roll	360°
Pitch	±60°
Skew	±60°
Aiming Element	Red dot aimer
Illumination Element	White LED
Field of View	Horizontal: 40° Vertical: 30°
Ambient Light Immunity	Max 100, 000 lux (direct sunlight)
Resolution 1D	3 mil
Supported 1D Symbologies	Code 39, Code 128, Code 11, Codebar, UPC/EAN, Interleaved 2 of 5, Matrix 2 of 5, Korea Post On/Off, GS1 DataBar, Code 93, MSI, Telepen
Supported 2D Symbologies	Postal Codes, PDF417, Micro PDF417, Aztec Code, Data Matrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Grid Matrix
Offline Memory	1MBytes (63K records of UPC-A)

User Interface

LED	2 RGB LEDs located at the top side of the device (programmable)
Beeper	Up to 85 dB @ 10 cm (programmable)
Vibration	Inside the ring trigger (programmable)
Restore Key	User accessible for emergency shutdown
Button Trigger	Manual ambidextrous trigger with a long life of 5 million cycles
Touch Trigger	(Optional)

User Environment

Operating Temp.	32° F to 113° F/0° C to 45°
Storage Temp.	14° F to 113° F/-10° C to 45° C
Humidity	5% - 95% non condensing
Drop Spec.	Multiple 6 ft./1.8 m drops to concrete
Tumble Spec.	1,000 1.64 ft./0.5 m tumbles
Vibration	Sine 5-2000Hz, 4g peak, 1 hour per axis; Random 20-2000Hz, 6g RMS or 0.04g2/Hz, 1 hour per axis
Electrostatic Discharge (ESD)	±15kVdc air discharge; ±8kVdc contact discharge

Peripherals and Accessories

USB magnet charging cable; spare trigger mounts

Bluetooth

Class 1 and 2, Bluetooth Low Energy 5.0

Supporting profiles: Human Interface Device Profile (HID), GATT General Profile, Battery Service (BAS)

Warranty

1 (one) year from the date of shipment.

Regulatory

CE, RoHS, FCC

Decode Range

Symbology	Near/Far
Code 39: 5 mil	1.8 in./4.5 cm to 7.1 in./18.0 cm
Code 128: 5 mil	2.2 in./5.6 cm to 6.2 in./15.8 cm
PDF417: 7 mil	2.2 in./5.5 cm to 6.4 in./16.3 cm
UPCA 100%: 13 mil	1.8 in./4.6 cm to 15.4 in./39.0 cm
DataMatrix: 10 mil	1.8 in./4.0 cm to 7.2 in./18.2 cm
QR Code: 20 mil	1.4 in./3.6 cm to 14.5 in./36.7 cm

Technical Support

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