MS920

Pocket 2D Imager Scanner

Unitech MS920 is a new generation of wireless 2D barcode scanner that doubles the excellent decoding performance in a pocket-sized enclosure. Thanks to its compact & lightweight design for easy mobility, MS920 allows enterprises to simply scan and transmit 1D and 2D barcode in real time to the host wirelessly or to store scanned data in the built-in memory.

User-friendly operation with a compact size

Featuring convenient single-button scanning design and convenience of wireless technology, MS920 enables users to make barcode data collection easy and efficient. MS920 is easily to carry around, while also supporting various mobile devices running on Windows, Android, or iOS. Measuring only 109mm long, 51 mm wide and 28 mm thick, MS920 is small in size and easy to carry around. In addition, running on rechargeable Li-Ion battery, it allows users to operate over 10 hours to work and charge the built-in battery by utilizing a standard USB port.

Durable and superior performance

MS920 incorporates rugged design with an IP42 environmental sealing against moisture and dust, while also surviving a 1.5M drop to concrete. Combining highly visible 617nm red LED-based aimer with advanced scan engine, it can aim effectively well even in low light environment, yet, still delivers superior performance by capturing data from high density barcodes up to 4 mil resolution. Moreover, the read range of MS920 extends beyond competing scanners by an average of 60 percent.

Furthermore, MS920 offers batch mode as well as real-time data collection, connected to a host via automatic transferring. Providing class-leading motion tolerance of 4 inches per second, MS920 mini barcode scanner is ideal for streamlining productivity at customer-facing operations such as the point of sale, asset tracking management and healthcare applications.

Features

- Build in high performance 2D engine & decoder to read all standard 1D and 2D codes
- LED and beeps indicate good scan, connection and power status
- User-friendly operation with a pocket-sized enclosure
- Superior performance scan engine to read damaged, poorly printed, overlaid and colored bar codes
- Compatible with Windows, Android, and iOS mobile devices by HID and SPP connection
- Support batch mode to ensure no data loss when out-of-range reading
- Equipped with a high capacity battery for more than 10 hours operation of continuous use
- Enterprise durability: 1.5 m drop protection and IP42 sealing for ingress protection

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Optical & Performance

Optical & Performance	Image Sensor, 752 x 480 pixels
Light Source	Illumination: Highly visible white LED
	Aiming : 617 nm red LED
Max. Resolution	1D codes 0.1 mm (4 mils)
	2D codes 0.167 mm (6.6 mils)
Skew Angle	±58 degrees
Pitch AngleSensor	±86 degrees
Printing Contrast Scale	30%
Motion Tolerance	4 inches per second

Reading Distance (DOF PCS=100%)

Label / DOF	near	far
Code 39, 4mils	60mm	180mm
Code 39, 5mils	45mm	225mm
Code 39, 20mils	60mm	640mm
Code 39, 40mils	125mm	975mm

Label / DOF	near	far
EAN/UPC, 13mils	45mm	410mm

Label / DOF	near	far
DataMatrix, 7 mils	65mm	150mm
DataMatrix, 10 mils	45mm	210mm
DataMatrix, 15 mils	47mm	310mm

Label / DOF	near	far
PDF417, 6.6 mils	50mm	182mm
PDF417, 10 mils	37mm	275mm
PDF417, 15 mils	45mm	400mm

* =dependent on width of bar code

Accessories

Battery Pack*1, Whist Strap, Micro USB to USB Cable

Battery Pack

USB Cable

Whist Strap

Functionality

Symbologies	1D: EAN/UPC, GS1 Databar (limited expanded & omni-directional), Code 39, Code 128, UCC/EAN 128, ISBN, ISBT, Interleaved/Matrix/ Industrial and Standard 2 of 5, Codabar, Code 93/93i, Code 11, MSI, Plessey, Telepen, 2D: Data Matrix, PDF417, Micro PDF 417, Codablock, Maxicode, QR, Aztec Postal: Australian Post, BPO, Canada Post, Dutch Post, Japan Post, PostNet, Sweden Post
Operation Mode	Trigger Mode, Flash Mode, Continuous Mode, Buffer mode
Data Formatting	Prefix, Suffix, Code ID

Electrical

Operation Voltage	DC 3V to 5V
Current Consumption	Operation mode: 76.8mA
Battery Type	Rechargeable Lithium-ion battery
Battery Duration	1100mAh
Battery Charging time	Fully charged in 4 hours
Operating Time	Over 13 hours (1 scan / 3 seconds)

Mechanical

Scanner Dimension	51.4 x 109.3 x 28.1 mm
Scanner Weight	105.2g (with battery)
Switch life	10 million time

Environmental

ESD Protection	Functional after 8K Contact and 12K Air
Mechanical Shock	1.5m onto concrete (scanner only)
IP rate	IP42
Operating Temperature	0°C to 50°C
Storage Temperature	-30°C to 70°C
Relative Humidity	95% non-condensing

Communication

Radio Frequency	Unlicensed 2.4GHz
Protocol	Wireless SPP & HID profiles
Range	Class I 330ft/100M (Line of Sight)
Host Interface supported	USB

Regulation Approvals

CE, FCC, BSMI, VCCI

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