



SophistiScan

SQ250BT 2D Wireless Scanner



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Experience seamless connectivity with the SQ250BT 2D Wireless Scanner, featuring both built-in Bluetooth® and 2.4G technology. Effortlessly transmit data to your host device from up to 50 meters away using Bluetooth or enjoy extended 100-meter wireless range via 2.4G connectivity with the convenient charging base. Designed for comfort and affordability, this ergonomic scanner is your ultimate companion for daily operations. It is ideal for a wide range of applications including retail, manufacturing and inventory management.

Increasing Mobile Productivity

- User-friendly operation and ergonomic design
- Charging base provides 100 meters of 2.4G data transmission
- Anti-microbial disinfectant-ready housing
- Up to 50 meters coverage with Bluetooth 5.0 technology
- Supports all 1D and 2D barcodes including GS1 Composite

Easy and Flexible Operation

- Indicators: Buzzer, LEDs
- Interfaces: 2.4G/ BT HID/ BT SPP/ BT BLE/ Memory



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SPECIFICATION

Optic & Performance	
Light Source	White LED Visible red LED
Sensor	640 x 480
Scan Rate	60 Frames/Sec
Resolution	4mil/ 0.1mm
Scan Angle	Horizontal 39° Vertical 26°
Pitch Angle	±55°
Skew Angle	±55°
Roll Angle	360°
Print Contrast Ratio	30%
Memory	4096 barcodes (characters ≤500 /barcode)
Width of Field	161mm (13Mil Code39)
Typical D.O.F (Environment: 800 lux)	4 Mil Code39: 23 ~ 117mm 13 Mil UPC/EAN: 46 ~ 370mm 20 Mil QR Code: 25 ~ 254mm 10 Mil Data Matrix: 10 ~ 202mm 6.67 Mil PDF417: 23 ~ 138mm
Physical Characteristics	
Dimension	Scanner: L167 x W70 x H86 mm Base: L123 x W94 x H72 mm
Weight	Scanner: 153g Base: 180g
Color	White
Material	ABS
Connector	Phone Jack (Charging Base)
Cable	RJ45 to USB A(M) Cable, 1.8M
Trigger	Scan Button
Indicator	LED, Buzzer
Electrical	
Operation Voltage	3.7VDC ± 5%
Working Current	< 300mA
Standby Current	< 60mA
Battery	3.7V, 2000mAh, Li-Polymer Battery
Number of Scan	> 8000 scans



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(per full charge)	(1 scan/ 5 secs, Bluetooth connected)
Connectivity	
Radio	Bluetooth 5.0 & 2.4G
Range	2.4G: ≤328 ft/ 100m (line of sight) BT: ≤164 ft/ 50m (line of sight)
Interface/Profile	2.4G (Cradle Mode) BT HID BT SPP BT BLE Memory Mode
User Environment	
Operating Temperature	-20 ~ 50°C
Storage Temperature	-30 ~ 60°C
Humidity	5% ~ 95%RH (Non-condensing)
Drop Durability	1.8M
Ambient Light	100,000 Lux (Sunlight)
Decode Capability	
Symbologies	1D Symbologies: UPC-A/UPC-E, EAN-8/EAN-13, ISBN, Code 128, GS1-128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Standard 2 of 5, Codabar, MSI Plessey, GS1 Databar, GS1 Composite 2D Symbologies: QR Code, Micro QR Code, Data Matrix, PDF417, Aztec, MaxiCode, Han Xin
Regulatory	
ESD	Functional after 4KV contact, 8KV air discharge
Environmental	RoHS 2.0