iData J20-BT Ultra-rugged Bluetooth Scanner

Powerful mobile operation capacity, improve tracing efficiency of product lines

iData J20-BT is an ultra-rugged Bluetooth scanner. The new generation of Bluetooth technology enables more freedom for staff while working. The durable outer appearance and the removable large battery design make the device survive in harsh production environments. Adopting iData's advanced scanning technology, surface light source lighting technology, and multi-spectral technology, it can help production line staff capture 1D/2D barcodes on parts quickly.

New generation Bluetooth technology, improve the stability of connection

The scanner and base are connected by Bluetooth 5.0, with a transmission distance up to 70m. iData Bluetooth optimization technology ensures stable connection in the event of signal interference and quick automatic re-connection after disconnection, improving the connection stability for staff who work at long distance.

Ultra-rugged design, ensure an uninterrupted operation

Adopts a higher standard of anti-drop, anti-roll, dustproof, and waterproof design than ordinary scanners. When the equipment is operating in a harsh environment, even if it encounters accidents such as drops, impact, and water ingress, it remains functional. Equipped with a 3250mAh detachable battery, it can work for over 12 hours after fully charged. When the battery is low, replace it with the spare battery, it can continue working straight away.

Advanced illumination technology, improve capture efficiency

The advanced surface light sources and multi-spectral lighting can illuminate barcodes in different light environments effectively and evenly, reduce the reflective interference caused by materials, enhance imaging contrast and image quality, and make the decoding way easier. The new generation quad-core decoding core and iData decoding algorithm technology can easily capture blurred, damaged, low-contrast barcodes such as dot etching, laser etching, chemical etching, etc., improving the efficiency of on-site data collection.

| Home appliance assembly | Auto manufacturing | Parts management | Electronic manufacturing |

J20-BT Technical Specifications

Performance Parameter

Image Sensor	1280*1024 pixels
Fill-in Light	Surface light source: Red, blue Dot light source: White *2, one is short distance, the other is long distance

Physical Parameter

Size (H*W*D)	195.25*73.55*112.64mm
Weight	Scanner: 420.5g; Base: 350.5g
Working Voltage	USB-port version: 5V±5% (DC)
Current	350mA
Interface	RJ45-USB, RJ45-RS232
Reminder	Buzz reminder: 100dB+ LED reminder: 1. Power indicator(green/red); 2. Bluetooth indicator(blue/red); 3. Decoding succeeded (Succeeded: green; Failed: no light) Vibration reminder
Housing Material	PC+GF+TPU
Key Life Span	5 million times

Code System

1D	Codabar, Code 11, Code 128, Code 32, Code 39, Code 93, EAN 13, EAN 8, UPC-A, UPC-E, IATA 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI/Plessey, GS1 DataBar, etc
2D	Aztec, Data Matrix, Micro PDF 417, PDF 417, QR, Micro QR etc

Decoding Range

Range	High density
3.33mil Code128	3cm~11.5cm (1.18inch to 4.53inch)
10.83mil Code128	0.5cm~12cm (0.20inch to 4.72inch)
20mil Code128	2cm~31cm (0.79inch to 12.20inch)
5mil QR Code	3cm~8cm (1.18inch to 3.15inch)
20.83mil QR Code	1.5cm~21cm (0.59inch to 8.27inch)

Scanning Performance

Scanning Accuracy	≥3mil
Scanning Angle	(pitch): ±60°; (skew): ±60°; (tilt): 360°
View Angle	Horizontal: 43.4°, Vertical: 33°, Diagonal: 54°
Minimum Reading Contrast	10%
Motion Tolerance	4m/s

Environment Parameter

Working Temperature	-20℃~50℃
Storage Temperature	-40℃~70℃
Humidity	5%~95% (No condensation)
Ingress Protection	IP67
Drop Specification	Multiple drops to concrete floor from the height of 2m
Roller Drop Specification	1000 times of roller drops from a height of 1 meter
Ambient Light	0Lux~100000Lux
ESD Protection	±15KV (air discharge), ±8KV (contact discharge)

Wireless Transmission Performance BT

Bluetooth	Bluetooth 5.0
Frequency Band	2402MHz~2480MHz
Transmission Distance	Up to 70m in open space
Communication Mode	Base HID/Base CDC/ Base RS232

Scanning Configuration

Battery Capacity	3250mAh, detachable
Charging Time	4 Hour (5V/2A)
Working Time	≥12h
Scan Times	>100,000 times after fully charged

Accessories

Standard Accessories	USB-port version: RJ45 to USB-A data power supply cable (cable length:1.8m)*1, 5V adapter *1
Optional Accessories	RJ45 to RS232 (cable length: 2m)