



# **WEARABLE RINGSCANNER DATA COLLECTOR**

## **PRODUCT SPECIFICATION V1.4**



## 1. RINGSCANNER PERFORMANCE CHARACTERISTICS

<b>Operating System</b>	Can be connected with the Android, IOS, Windows and other intelligent operating system to use
<b>RAM/ROM</b>	2MB, built to store 100000 data
<b>Expansion Slot</b>	No
<b>Interface/Communication</b>	Industrial Micro USB interface, USB2.0, supports charging and data transmission
<b>Keyboard</b>	Scan key, reset key
<b>Display</b>	No
<b>Power source</b>	Built-in 500mAh rechargeable lithium battery
<b>Battery performance</b>	1D: Continue to work: more than 10 hours (once every 3 seconds scanning and Bluetooth transmission) Dormancy standby: more than 500 hours 2D: Continue to work: more than 5 hours (once every 3 seconds scanning and Bluetooth transmission) Dormancy standby: more than 200 hours
<b>Notification</b>	Voice, vibration, LED light
<b>Audio</b>	Built-in buzzer
<b>Dimension</b>	47mm (length) *37mm (width) *39mm (thickness)
<b>Weight(with standard battery)</b>	48g
<b>Operating Temp</b>	-20°C to +50°C
<b>Storage Temp</b>	-20°C to +60°C (Battery included)
<b>Humidity</b>	5% to 95% RH non-condensing
<b>Sealing level rate</b>	IP64
<b>Drop Specification</b>	1.5m (concrete)
<b>ESD</b>	±12kV Air discharge, ±6kV direct discharge

## 2. RINGSCANNER DATA CAPTURE OPTIONS

Function 1	1D Scan Engine (Option 1)
<b>Scan Accuracy</b>	4mil
<b>Rotate</b>	±35° from vertical
<b>Pitch Angle</b>	±65° from normal
<b>Skew Tolerance</b>	±50° from normal
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificiallight:450ft. Candles(4,844Lux)

<b>Scan Depth</b>	15.2cm(4mil), 64.1cm(55mil)
<b>Scan Frequency</b>	min.92/sec, model: 104,max.116 times(bi-directional)
<b>Scan width</b>	47°/35°
<b>Laser Power</b>	0.7mw±0.1mw
<b>Code Support</b>	UPC-A,UPC-E,EAN-8,EAN-13,Code 128,Code 39,Code 93,Code 11,Codabar,Interleaved 2 of 5,Discrete 2 of 5,Chinese 2 of 5,MSI,RSSI, etc.
<b>Function 2</b>	<b>1D Scan Engine (Option 2)</b>
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	±35° from vertical
<b>Pitch Angle</b>	±65° from normal
<b>Skew Tolerance</b>	±50° from normal
<b>Ambient Light</b>	Sunlight:10,000ft
<b>Scan Depth</b>	13.5cm(5mil),91cm(55mil)
<b>Scan Frequency</b>	100±10/sec
<b>Scan width</b>	47°
<b>Laser Power</b>	1.7mw±0.2mw
<b>Code Support</b>	UPC-A,UPC-E,EAN-8,EAN-13,Code 128,Code 39, Code 93,Code 11,Codabar,Interleaved 2 of 5,Discrete 2 of 5,Chinese 2 of 5,MSI,RSSI, etc.
<b>Function 3</b>	<b>1D Scan Engine (Option 3)</b>
<b>Scan Accuracy</b>	5mil
<b>Rotate</b>	±35°
<b>Pitch Angle</b>	±65°
<b>Skew Tolerance</b>	±50°
<b>Ambient Light</b>	Sunlight: 10,000ft. Candles(107,640Lux)
	Artificiallight: 450ft. Candles(4,844Lux)
<b>Scan Depth</b>	17.78cm(5mil), 66.04cm(15mil)
<b>Scan Frequency</b>	104±12/sec
<b>Scan Width</b>	47°/35°/10°
<b>Laser Safety Grade</b>	Class I

<b>Code Support</b>	UPC/EAN, POST, Code 128, Code 39, Code 93, Code 11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSSI Etc.
<b>Function 4</b>	<b>2D Scan Engine (Option 4)</b>
<b>Sensor Resolution</b>	640 x 480
<b>Rotate</b>	360°
<b>Pitch Angle</b>	±45°
<b>Skew Tolerance</b>	±45°
<b>Scan Depth</b>	5mil code39 (61-130mm) ; 20mil code39 (60mm-380mm)
<b>Image Frame</b>	30fps
<b>Code Support</b>	Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, PosiCode, RSS Expanded, RSS Limited, RSS-14 2D Stacked: PDF417, MicroPDF417 2D Matrix: Aztec Code, Codablock F, Data Matrix, MaxiCode, QR Code, TCIF Linked Code 39, Chinese Sensible (Han Xin) code, Codablock A Postal Codes: Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet
<b>Light source system</b>	White light, red laser aiming
<b>Barcode reflection</b>	Minimum 35% reflectivity

### 3. RINGSCANNER WIRELESS DATA COMMUNICATIONS

<b>Function 1</b>	<b>WPAN Bluetooth (Option 1)</b>
<b>Standard</b>	Bluetooth 4.0 (Dual mode)
<b>Protocol</b>	Bluetooth HID protocol; Bluetooth SPP protocol
<b>Power</b>	Class 2
<b>Distance</b>	>10 m (Industrial-grade Bluetooth adapter)

### 4. RINGSCANNER THIRD PARTY APPLICATION SUPPORT

<b>System Software</b>	Android & IOS & Windows Mobile/CE
------------------------	-----------------------------------

### 5. RING SCANNER PERIPHERALS AND ACCESSORIES

<b>Standard Accessories</b>	Universal Adapter×1, USB cable×1
-----------------------------	----------------------------------