

# SPECIFICATION

Customer : \_\_\_\_\_

Customer's Model No. : \_\_\_\_\_

Model No. : MB2XXX Series \_\_\_\_\_

Date: 2017.02.24 \_\_\_\_\_

Sample Serial No. : \_\_\_\_\_

Spec. Version & Revision Date:V02 2017.02.24

Received/Approved by

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## Revision History

Version	Date	Context
V01	2016.02.19	Tony release
V02	2017.02.24	Correction of Off-line Mode barcode data storage volume to be 100,000 items.

# **MB200 series Wireless Pocket Scanner**



## Technical Product Specification

<b>System Architecture</b>	
Micro Processor	32-bit
Operating Platform	Proprietary
Flash Memory	512 Kbyte program. 8 M bytes user data that can save over 100,000 items of 50 bytes barcode data.
RAM Memory	128 Kbytes
Display Size	MB200 series are without display.
Input Keys	2 buttons, include 1. scan and confirm trigger button, 2. turn off button ,
Indicator	1. LED x 1(White/Green/Blue/Red) 2. Beeper x 1 3. Vibrator x 1
<b>Environmental</b>	
Operating Temp.	0°C to 50 °C
Storage Temp.	-20 °C to 70 °C
<b>Power Source</b>	
Battery	Lithium-Polymer (3.7V DC)
Battery Charging	via Micro USB connector (5V)
<b>Physical Characteristics</b>	
Dimensions	41.8mm x 89.9mm x 23.6mm ( W x D x H)
Weight	Designed to be approx. 70 g(With Battery & OLED Panel)
Available color	Black cover and dark gray bottom cases
Hanger	1 Hanger Hole
Protection	IP54 sealing protection
Drop Spec.	1.5m (5 feet)
<b>Data Input</b>	

Scanner possibilities Options: by respective rollout schedule. One of the barcode scanners

(1) [MB200C] - CCD 1D Scanner

Scan rate: Smart detect up to 500 scans/sec ,

Visible Red light 633nm

Up to 140nm @ Code 39 ,PCS 90%(0.1mm)

Ambient light,50,000 Lux (Max) @ Code 39, PCS 90%(20 mil)

**All UPC/EAN/JAN,EAN128 Code, Code 39, Code 30 Full ASCII , Code32/Italian Pharmacy, Code 128, CODABAR/NW7, Interleave 25, Industrial 25, Matrix 25, Matrix 25,**

(2) [MB200i] - 2D imager scanner

Up to 120 scans per second in linear emulation and 60 images per second in 2D area mode

Visible Red light 633nm

Up to 180nm @ Code 39 ,PCS 90%(0.127mm)

Ambient light, 100,000 Lux Max (Sunlight)

1D Symbologies:

**EAN/UPC, UCC/EAN128, ISBN, ISBT, Code 11, Code 39, Code 93/93i, Code 128, Interleaved, Matrix, Instustrial, Standard 2 of 5, Codabar, MSI, Plessey, Telepen, Postal codes, GS1 DataBar**

2D Symbologies:

**Data Matrix, Data Matrix Inverse, PDF417, Maxicode, QR code, QR code Inverse, Aztec(& Inverse), EAN.UCC composite, MicroQR code**

(3) [MB200L] - Laser 1D scanner

Up to 104 scans per second nominal

Visible laser diode, 650 nm

**Communication Interface**

Wired	Micro USB V2.0 ( for Power charging only)
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Wireless	Bluetooth 2.1+EDR+ SSP (Class 2)
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**Functions**

Standby Duration	Over 3 months
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Scan per charge	[BT off] over 10,000 scans / [BT On] over 5,000 scans under normal operating conditions after battery full charged.
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Low Battery Alert	Battery levels are indicated by the LED illuminating color
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Data Handling	Able to be chosen as on-line (via BT ) or off-line (batch) mode.
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Off-line Mode	Can save over 100,000 items of 50 bytes barcode data.
Indication combination	Can be configured as (1) Scan Review + LED indication (2) Vibration + LED indication (3) Beep + LED indication or (4) All indication Enable
Compatibility	Provides SDK to let customers develop AP on different OS.

Due to Champtek's continuing product improvement programs, specifications and features are subjected to change without prior notices.