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MBC-6890 Series

Bluetooth Cordless Linear Imager

Wireless FuzzyScan™
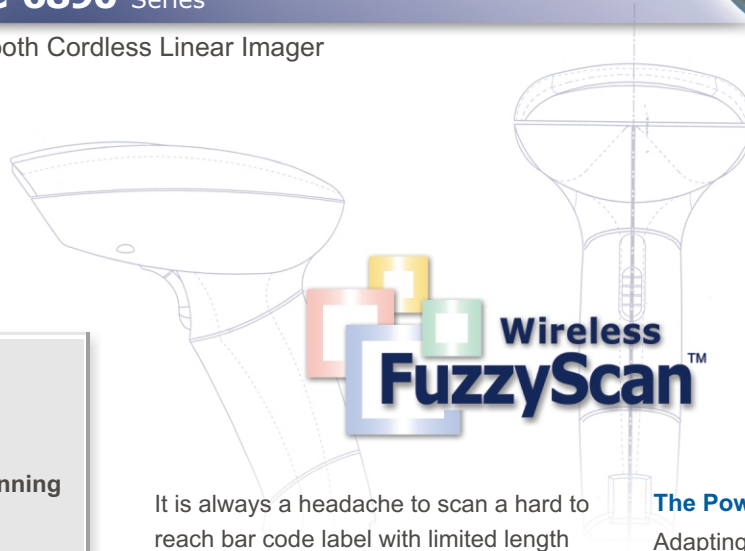
- **Cordless solution using Bluetooth technology for maximized freedom of scanning**

- **Choice of short distance (up to 30meters) and long distance (up to 100meters)**

- **Choice of Long Range and High Density**

- **Supports both master and client modes connection with other Bluetooth devices**

- **Up to 20,000 scans per charge**

- **Three levels of data acknowledgement**

- **Intelligent FuzzyScan scanning engine to enhance reading capability and decoding speed for poor quality barcode.**

- **High speed scanning: 300 scan/sec, for snappy bar code capture**

- **User-friendly Windows utility, FuzzyScan PowerTool.NET for configuration and upgrade**

It is always a headache to scan a hard to reach bar code label with limited length of cable attached to the end of the scanner. Therefore, to scan without the limitation of cable has been the dream of many scanner users.

The Best Match of Bluetooth Technology

To make this dream comes true, here comes the MBC6890: Bluetooth cordless linear imager. Providing outstanding reading performance with the embedded FuzzyScan linear imager scan engine. Achieving the real-time data transmission to the host through the most contemporary Bluetooth module.

The Maximized Freedom of Scanning

MBC6890 can free the checkout counter operators from standing behind the counter, so they can move around and scan the bar code labels on bulky items without any difficulty. In order to guarantee the accuracy of data transmission, three levels of data acknowledgment can be selected depending on different needs. Therefore, the bar code scanning can be processed more freely, efficiently and correctly.

The Powerful Heart

Adapting the features of FuzzyScan engine, it makes bar code scanning an ever pleasant experience. High-speed scanning with accurate decoding give snappy readings. Bright aiming line gives clear visibility on all bar code labels to be read.

The User Friendly Operation

The clear indications enable user easily understands the status of scanner.

The Complete Utility Software

To keep the MBC6890 always be updated, Flash Memory is equipped for field upgrade and store the configurations through the most advanced FuzzyScan PowerTool.NET Windows based utility. All these extra values have made the new MBC6890 the first choice available in the cordless linear imager solution.
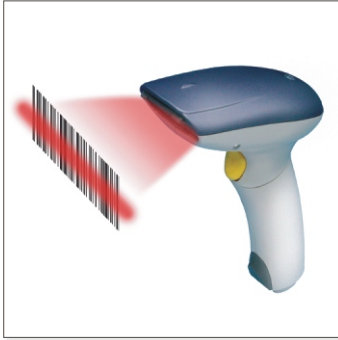
Superb bright aiming line for a distance of 12" visibility & reading

Rechargeable AA Size high capacity Ni-M H battery

Support up to 7 connections with h USB Bluetooth dongle or Bluetooth devices

Cable replacement solution for Legacy Output (PS/2 keyboard, RS 232, USB keyboard and USB Serial)

Operational

Light Source	630nm Visible Red LED
Optical Engine	3.6K-pixel high-density linear imaging engine
Reading Direction	Bi-directional (forward or backward)
Resolution	Maximum 3mil (PCS=0.8 or more)
PCS Value	Typical 0.45 (0.26mm resolution), Max. 0.3 (0.18mm resolution) *- With reflection factor of white bar being 75% or more*

	High-density Model (MBC6890-HD-xx)	Long-range Model (MBC6890-LR-xx)
Depth of Field (Horizontal=0 degree, Rotation=0 degree, Code 39, PCS=0.9)	3 mil (0.076mm)Resolution: up to 3-4 inches 4 mil (0.1mm)Resolution: up to 4-5 inches 5 mil (0.127mm)Resolution: up to 5-6 inches 10 mil (0.25mm)Resolution: up to 7-8 inches 20 mil (0.50mm)Resolution: up to 9-10 inches	4 mil (0.1mm)Resolution: up to 4-5 inches 5 mil (0.127mm)Resolution: up to 5-6 inches 10 mil (0.25mm)Resolution: up to 8-9 inches 13 mil (0.33mm)Resolution: up to 10-12 inches 20 mil (0.50mm)Resolution: up to 12-14 inches

Readable Bar code Symbologies	Codabar & NW-7 , Code 39 & Full ASCII Code 39 , Code 32 & IATA , UPC/EAN/JAN/CAN w/Addendum , Standard & Industrial 2 of 5 , Interleaved & Matrix 2 of 5 , Code 128 & UCC/EAN-128 , Code 11 & Code 93 , German ITF Postal Code , Mainland China Postal Code , Telepen (Numeric & Full ASCII) , MSI/Plessey & UK/Plessey
Tilt Angle	Forward and Backward : Typical 5-20 degree Left and Right : Typical 0-30 degree Rotation : ± 15 degree Curvature : R=25mm (PCS=0.9, 0.39mm EAN-13) Clearance : 65mm
Scanning Speed	Up to 300 scans/second

Communication

	Class 2 Model (MBC6890-xx-C2)	Class 1 Model (MBC6890-xx-C1)
RF Standard	Bluetooth R 1.1 (SPP Profile)	
RF Frequency	Band 2.4~2.4835GHz unlicensed ISM band	
RF Output Power	Class 2 Model (MBC6890-xx-C2) less than 4 dBm	Class 1 Model (MBC6890-xx-C1) less than 13 dBm
Working Distance (in free space)	Class 2 Model (MBC6890-xx-C2) Min. 10m, possibly over 30m	Class 1 Model (MBC6890-xx-C1) Min. 75m, possibly over 100m

* The working distance will be depending on the actual condition

Electrical

Battery Type	2 AA Size Rechargeable NiMH Battery Cell
Battery Capacity	Minimum 2000 mAH
Time of Recharge	3 – 4 hours
Operating Autonomy	Minimum 2,0000 reads pre charge

Mechanical

Length	121.00 mm
Width	74.36 mm
Depth	153.40 mm
Weight	With battery : Approx. 230g Without battery : Approx. 170g

Accessories

Smart Cradle	Bluetooth communication : Bluetooth R 1.1, SPP Profile Communication : Legacy output (PS/2 Keyboard, RS232 Serial, USB Keyboard, USB Serial) Battery charging function : Fast charge Indication: 3 LEDs and Buzzer
Charging Cradle	Battery charging function : Fast charge Communication : RS232 Serial, USB Serial Indication: 3 LEDs
Power Adaptor	9V DC 2.7A
Interface Cable	PS/2 keyboard Interface Cable, RS 232 Interface Cable, USB keyboard Interface Cable, USB Serial Interface Cable

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