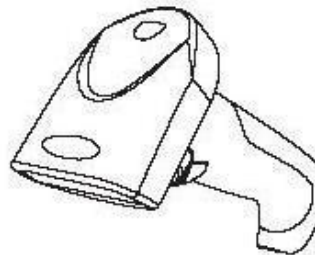


# Using the DB-5083 with Library Automation Systems

Prior to use it is recommended that the content of the supplied package be inspected so that the purpose and use of each item is understood.

**Supplied Items illustrated below.**

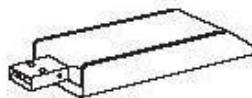
The DB-5083 Wireless Scanner has a Li-Ion rechargeable battery already fitted within the handle of the scanner. The enclosed USB charging cable is used to recharge the battery from a spare USB port when required.



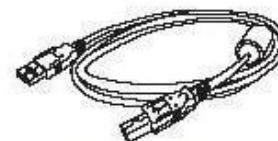
DB-5083 Wireless Scanner

## **Connect the USB receiver to the computer.**

The DB-5083 USB receiver must be connected to a spare USB port on the host computer and provides the path of wireless communication with the DB-5083 wireless scanner and the host computer.



USB Receiver



USB Charging Cable

The USB receiver is known as a HID device meaning that data sent from the receiver to the computer is treated the same way as keyboard entry. What this also means is that when the USB receiver is first connected to the computer's USB port the computer operating system recognises this and automatically accommodates for it. This is often referred to as "Plug & Play" and means that **NO** additional software or device driver software is required, the widespread growth and adoption of many USB devices is directly attributable to this simple and user-friendly method of connecting computer peripherals.

Once you have connected the USB receiver it should be automatically recognised by the host computer and within a few seconds the USB receiver's blue light will indicate that the initialization is complete and the wireless scanner is ready for use.

Once you have connected the USB receiver it should be automatically recognised by the host computer and within a few seconds the USB receiver's blue light will indicate that the initialization is complete and the wireless scanner is ready for use.

If the DB-5083 fails to communicate to the host computer then it may require pairing with the USB receiver.

**Two methods of pairing/binding are provided for.**

**Method 1.** When there is only one scanner in local use and **Method 2** when there are more than one DB-5083 in close proximity. Method 2 allows a unique frequency to be allocated to each DB-5083 scanner / receiver in order to prevent data clashing occurring. (See accompanying set up sheet for details on pairing).

## **Wake up the DB-5083 wireless scanner.**

When the DB-5083 wireless scanner is first used it will require waking up, to do this simply press and release the trigger on the scanner to activate it. A green light on the head of the scanner will illuminate when the scanner is ready for use.

After periods of non-use (default of 1 minute) the wireless scanner will enter a sleep mode to preserve battery life. Waking up is the same as first initialization, simply press and release the trigger on the scanner.

The Dataman Operational Setup Guide that accompanies the DB-5083 does provide important detailed information and instructions necessary for the DB-5083 to be customised for personal preference. Dataman Barcode Systems recommend that the DB-5083 is operated on its default settings.

## **Testing the DB-5083 wireless scanner.**

The scanner can now be tested. The DB-5083 is a CCD scanner, when the trigger is depressed it will emit a band of red light that should be positioned equally about and upon the bar code to be scanned.

The DB-5083 should be held a short distance away from the bar code being scanned (50 – 150 mm) and not immediately upon it. The required distance will vary between bar code types and depends upon the original density at which the bar code was produced, generally bar codes produced at higher print densities will require the DB-5083 to be held closer to the bar code. The scanner **SHOULD NOT** be held perpendicularly above the bar code but should be held at a slight angle to the perpendicular for best scanning results.

Initially while scanning with the trigger depressed gradually adjust the distance the DB-5083 is held from the bar code until an audible double beep is heard, this will indicate the optimum focal range for the particular style of bar codes being used. Once this optimum range is discovered this should be the distance the scanner should normally be held away from the bar code during regular use.

## **Charging and recharging the battery.**

When the DB-5083 is first received the on-board fitted battery may only be partially charged and will require topping up, use a spare USB port on the host computer and the supplied USB charging cable for this.

**Note:** It is possible to continue using your scanner while the battery is being charged and the charging cable is attached, the USB receiver can still remain connected.

While the scanner is being charged a blue light will be illuminated on the head of the scanner, when the scanner is fully charged the blue light will change to green. A fully drained battery could take up to 4 hours to charge, during normal usage if the light on the head changes to red it indicates the battery charge is low.

If the scanning light fails to come on when the trigger is depressed or the wireless range dramatically reduces (usually accompanied with du-du-du sounds) the scanner should be recharged immediately..

## **About the DB-5083 wireless scanner.**

While the DB-5083 is being operated in normal real time mode without cache, it does rely on being in constant wireless communication with the USB receiver.

When a bar code is scanned the decoded data is transmitted directly to the USB receiver and consequently to the host computer without delay. If the scanner is not connected to the receiver or is out of range the data can be lost. (The DB-5083 will emit a du-du-du sound to indicate that the data transfer was not successful).

Optionally the real time operation can be selected to operate with cache where data is stored in memory if out of range and uploaded as soon as communication range is restored, this ensures that data is not lost. Operating in cache mode can sometimes incur a small time delay that reflects in the speed that data can be entered.

The absolute wireless range of the DB-5083 can vary and is dependent upon the surrounding conditions under which it is operating. Line of sight wireless communication range of approximately 30 meters is normal and up to 90 meters in ideal conditions. The range can be improved if the USB receiver is connected to a USB extension cable and mounted in such a way that the USB receiver it is more visible to the DB-5083.

The DB-5083 **does** incorporate internal memory capabilities and can be set to a data collection mode for stocktaking purposes. When the batch memory mode is activated its wireless range no longer restricts the distance the DB-5083 can be remotely taken to collect data. The DB-5083 does however have to be returned to within wireless range to download collected data. The DB-5083's large memory is capable of storing up to 100,000 average library bar codes, it is recommended however that smaller multiple batches are undertaken.

See the included operational barcode Setup Menu for using the DB-5083 for data collection and stocktaking.

A feature available while undertaking stock collections is the "**Retrieve Memory Usage**" command, If this bar code is scanned when in wireless range the DB-5083 will send a message to the computer reporting how many barcodes have been placed in memory. Simply open a blank Notepad window or clear MS Word document, scan the "**Retrieve Memory Usage**" bar code and the information will be displayed.

e.g. Total Counters = 0047

The same feature can also be used when operating in direct cache mode. If any scans have been placed in memory then this command will show the quantity, Using the "**Download Data**" command will send the cached data to the computer. The cache can be cleared with the "**Delete Data**" command.

**These instructions and any accompanying bar code command charts have been created by Dataman Barcode Systems and are copyright. It is recommended that copies are made and at least one copy laminated.**

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### Set for Remote Data Collection Mode

Enable Batch Memory Mode



**Note:-**

While in remote data collection mode direct and immediate real time communication with the computer will cease.

### Set for Normal Operation

Normal Direct Mode (operate without cache)



Normal Direct Mode (operate with cache)



### Steps for Downloading Data

The host computer software should be set to a prepared state to receive data.

Download Data



When ready, the above barcode is scanned and the stored batch data is transferred,

When the collected data has been successfully downloaded the storage memory can be cleared.

Delete Batch Data



The process of collecting data, downloading data and clearing memory can be undertaken in repeated batches as required. Finally, when finished the DB-5083 scanner can be returned to conventional mode by scanning the above barcode listed "**Normal Direct Mode**".

Retrieve Memory Usage



### Sleep Time Setting

Setting an active sleep time will extend battery life between charges.

Set Sleep Time



60 seconds



3 minutes



5 minutes



15 minutes



Confirm Sleep Time Setting



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### USB Receiver Pairing Method 1

This pairing method can be used when there is only one scanner in local use or after frequency adjustment.

Insert USB Dongle / Transponder into spare USB socket then scan the following bar code within 20 seconds.

Pair in single step



### USB Receiver Pairing Method 2

This pairing method is used when there are more than one DB-5083 scanner in close proximity

Begin Frequency Adjustment



Modulate Frequency



Confirm Frequency Adjustment



If a failure to communicate is experienced after frequency adjustment remove Dongle / Transponder from USB port and re-pair using method 1.

## Lights

### LED Status

#### Scanner

Red light turns green  
 Green light blinks once  
 Green light blinks twice  
 Green light on  
 Red light on  
 Blue light on  
 Green light on

### Description

Power on  
 Successful scan  
 Failed scan  
 Working normally  
 Low battery  
 Charging normally  
 Charging complete

#### USB Receiver

Blue light on Working normally

#### Buzzer

#### Scanner beeper mode

Four beeps Power on  
 Short one beeps (cable) Scan & upload Ok  
 Short two beeps (wireless) Scan & upload Ok  
 Short three beeps Data upload failed  
 Long short beep Enter setting mode

Enter Setup



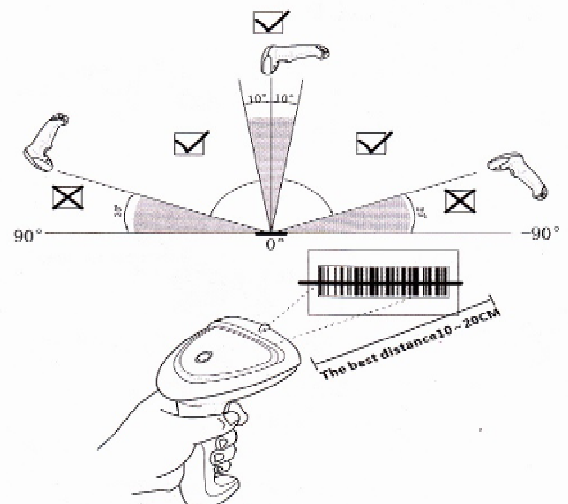
Restore to Factory Default



Exit and Save



## Scanning Method & Distance



Correct



Wrong



NOTE: LED beam should be full covered on the bar code

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