

Using the DB-5082 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-5082 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.

Connect the USB receiver to the computer.

The DB-5082 USB receiver must be connected to a spare USB port on the host computer and provides the path of wireless communication with the DB-5082 wireless scanner and the host computer.

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 will flash blue to report that the initialization is complete and the wireless scanner is ready for use with the USB receiver.

If the DB-5082 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-5082 scanner in close proximity. Method 2 allows a unique channel number to be allocated to each DB-5082 scanner in order to prevent data clashing occurring. (See accompanying set up sheet for details on pairing).

Wake up the DB-5082 wireless scanner.

When the DB-5082 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 blue light on the head of the scanner will illuminate when the scanner is ready for use.

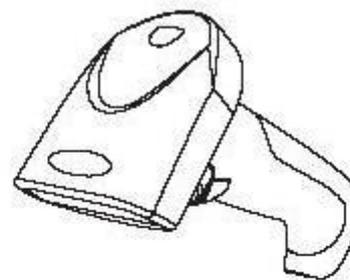
After periods of non-use (default of 1 minute) the wireless scanner will enter a sleep mode to preserve battery life. Waking up is the same as first initialization, simply press and release the trigger on the scanner.

The Dataman Operational Setup Guide that accompanies the DB-5082 does provide important detailed information and instructions necessary for the DB-5082 to be customised for personal preference. Dataman Barcode Systems recommend that the DB-5082 is operated on its default settings.

Testing the DB-5082 wireless scanner.

The scanner can now be tested. The DB-5082 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.

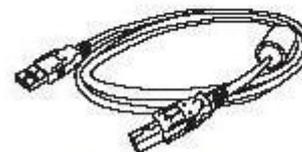
The DB-5082 should be held a short distance away from the bar code being scanned (50 – 150 mm) and not immediately upon it. The required distance will vary between bar code types and depends upon the original density at which the bar code was produced, generally bar codes produced at higher print densities will require the DB-5082 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.



DB-5082 Wireless Scanner



USB Receiver



USB Charging Cable

Initially while scanning with the trigger depressed gradually adjust the distance the DB-5082 is held from the bar code until an audible 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-5082 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 red light will be illuminated on the head of the scanner, when the scanner is fully charged the red light will go off. A fully drained battery could take approximately 4 hours to charge

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-5082 wireless scanner.

While the DB-5082 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-5082 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-5082 can vary and is dependent upon the surrounding conditions under which it is operating. Line of sight medium wireless communication range of approximately 10 meters is normal, 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-5082 scanner.

The DB-5082 **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-5082 can be remotely taken to collect data. The DB-5082 does however have to be returned to within wireless range to download collected data. The DB-5082's memory is capable of storing up to 500 (approx) average library bar codes before downloading and clearing for more data to be stored.

See the included operational barcode Setup Menu for using the DB-5082 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-5082 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

Disable Batch Memory Mode operate without cache



Disable Batch Memory Mode operate with cache



Steps for Downloading Data

The host computer software should be put into 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-5082 scanner can be returned to conventional mode by scanning the above barcode listed "**Disable Batch Memory Mode**".

Retrieve Memory Usage



Sleep Time Setting

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

Set Sleep Time



60 seconds



2 minutes



5 minutes



Enter Setup



Restore to Factory Default



Exit and Save



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USB Receiver Pairing Method 1

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

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

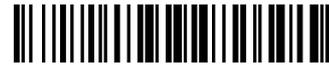
Pair in single step



USB Receiver Pairing Method 2

This pairing method is used when there is more than one scanner in close proximity. Each paired scanner must have it's own unique channel number. Insert USB Dongle / Transponder into spare USB socket then scan following bar code within 20 seconds.

Pairing with channel set



Follow by scanning two numerical parameters as channel number

Numerical Parameters

The following bar codes are used to set the optional Scanner ID setting (**Range 01 - 20**) and/or the multiple scanner pairing method 2 double digit channel number.

0



2



4



6



8



1



3



5



7



9



Scanner ID Setting (Optional)

Enter Setup



ID Set



Follow by scanning two numerical parameters as scanner ID

Exit and Save



Show/Hide ID

Show Scanner ID



Hide Scanner ID



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