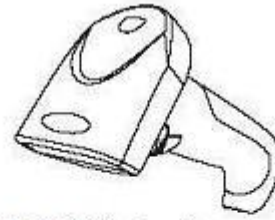


Using the D-Tech DB-5013 1D/2D Area Image Scanner

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.

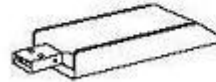
The DB-5013 Wireless Scanner has a factory fitted Li-Ion rechargeable battery within the handle of the scanner. The enclosed USB charging cable is used to recharge the battery from a spare **working** USB port when required.



DB-5013 Wireless Scanner

Connect the USB receiver to the computer.

The DB-5013 USB receiver must be connected to an **active** USB port on the host computer and provides the path of wireless communication with the DB-5013 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. If the host computer is on a network the auto recognition process may take a little longer time to complete.

If the DB-5013 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-5013 in close proximity. Method 2 allows a unique frequency to be allocated to each DB-5013 scanner / receiver in order to prevent data clashing occurring. (See accompanying set up sheet for details on pairing).

Wake up the DB-5013 wireless scanner.

When the DB-5013 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 3 minutes) 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-5013 does provide important detailed information and instructions necessary for the DB-5013 to be customised for personal preference. Dataman Barcode Systems recommend that the DB-5013 is operated on its default settings.

Windows Forgets.

The MS Windows Plug & Play feature is **not bullet proof**. Occasionally if a computer has been running for many hours/days without being reset the MS Windows operating system can lose or forget that certain USB peripherals (like bar code readers) are attached. If this occurs a computer re-boot will correct the anomaly.

Testing the DB-5013 wireless scanner.

The scanner can now be tested. The DB-5013 is an Omnidirectional Area Image 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-5013 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-5013 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-5013 is held from the bar code until an audible beep is heard, this will indicate the optimum focal range for the particular format 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.

Auto Trigger Option

When shipped the DB-5013's sleep setting is set to an active state, this is done to prevent the battery from being over discharged during transit/storage and to preserve the low initial charge on the battery, i.e. It is a safety measure. To awaken the scanner briefly depress the trigger,

The DB-5013 also incorporates an "Auto Trigger" feature that can be initiated by scanning the Auto Trigger command bar code set on sheet 2 of the supplied operation menu, auto trigger can be enabled or disabled.

The auto trigger feature replaces the need to squeeze the trigger for each bar code scan, instead all that is required is to bring the scanner close to the bar code to allow the inbuilt IR detector to initiate the scan process. Once scanned it will be necessary to take the scanner far enough away from the bar code to allow the IR detector to reset before another bar code can be scanned,

Note: If the auto trigger mode is enabled it will be necessary to turn the sleep mode **off**. (See operation menu sheet 1 "None Sleep").

Charging and recharging the battery.

When the DB-5013 is first received the on-board fitted battery may be only partially charged and will require topping up, use a spare active 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-5013 wireless scanner.

While the DB-5013 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-5013 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-5013 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 80 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-5013.

The DB-5013 **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-5013 can be remotely taken to collect data. The DB-5013 does however have to be returned to within wireless range to download collected data. The DB-5013'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-5013 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-5013 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. BarcodeNumber:XXXXX

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-6023 scanner can be returned to conventional mode by scanning the above right barcode listed "**Normal Direct Mode**".

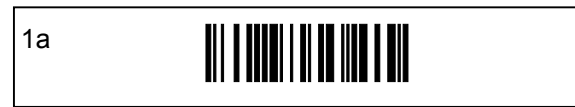
Retrieve Memory Usage



Sleep Time Setting

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

Set Sleep Time



60 seconds



* 3 minutes



15 minutes



None Sleep (Default for Auto Trigger Mode)



Confirm Sleep Time Setting



* Default 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
 Red light on
 Blue light on
 Green light on

Description

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

USB Receiver

Blue light on

Working normally

Buzzer

Scanner beeper mode

Four beeps
 Short one beeps (cable)
 Short two beeps (wireless)
 Short three beeps
 Long short beep

Power on
 Scan & upload Ok
 Scan & upload Ok
 Data upload failed
 Enter setting mode

Enter Setup



Restore to Factory Default



Exit and Save



Auto Trigger

Setup Start



Enable Auto Trigger



Disable Auto Trigger



Setup End



NOTE:-

Set Sleep Mode **OFF** (None Sleep) if Auto Trigger enabled

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