

Using the Nexa CM-500M with Library Automation Systems

The CM-500M's accompanying Scanner Operation Guide provides all of the basic instructions and information necessary to use the CM-500M for normal bar code scanning and storage.

The CM-500M incorporates a TimeStamp feature that can be used for Asset Collection Systems and Time and Attendance applications. For users of library automation systems these features are not normally required, it is therefore important to ensure the CM-500M's TimeStamp feature is **TURNED OFF**.

The following set of command bar codes can be used to ensure the CM-500M is configured correctly for use with Library Automation Systems like Bookmark; Amlib; Oliver; Oasis; E-Library; Alice; ResourceMate etc.

Preparing the Nexa CM-500M scanner

Identify the following two barcodes "**All Default**". Scan both of these barcodes from top to bottom to ensure the CM-500M has been fully reset.

ALL DEFAULT



Next note the barcode column "**Disable Headers**" below, scan each of the three barcodes in this column from top to bottom to ensure the CM-500M does not send the download headers. "<Memory>" & "<End>".

Next, identify the central barcode column "**Disable TimeStamp**", scan each of the barcodes in this column from top to bottom to ensure the CM-500M does not include the time and date with data downloads.

Finally, scan each of the 6 barcodes from top to bottom in the column "**Set Download Delay**" to make provision for an adequate time delay period between each data record downloaded. This ensures that the automation system software has time to process the data being received.

DISABLE HEADER



DISABLE TIMESTAMP



SET DOWNLOAD DELAY



Should the CM-500M be programmatically reconfigured at any time it may be necessary to repeat the above sequence to ensure compatibility with various automation systems.

These instructions and the accompanying bar code command chart 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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Using the Nexa CM-500M with Library Automation Systems

All NEXA CM-500M portable scanners supplied by Dataman Barcode Systems include a set of two important control barcode labels titled "CM-500M SEND DATA" & "CM-500M CLEAR DATA". These bar codes are encoded with command instructions for the CM-500M unit, they are intuitively named and should be kept in a secure location for use when required.

The CM-500M is supplied with a USB cable that connects to the body of the CM-500M unit and allows the CM-500M to be interfaced to the computer (P.C. or MAC) using a conventional USB style socket. The CM-500M is fitted with a Li-ion rechargeable battery that derives its charge from the computer while it is connected to the USB port, the Charge State is indicated by the red light on CM-500M unit.

When installing the CM-500M for the first time the computer should already be ON and operational, once the CM-500M is connected the computer will recognise the connection and automatically accommodate for the required USB HID drivers, this is often referred to as plug & play. User installed software drivers are not necessary, the accompanying disk contains a copy of the user manual.

While the CM-500M is attached to the computer it can be used as a conventional bar code scanner, the CM-500M should be held a short distance away from the bar code to be scanned (20 – 100 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, bar codes produced at a higher print density usually need the CM-500M to be held closer to the bar code.

Depressing the large blue button with the thumb will cause the unit to emit the scanning beam, the CM-500M will give an audible beep once the bar code has been read successfully. Adjusting the focal distance the CM-500M is held from the bar code while scanning until the beep is heard will indicate the optimum focal range for the particular range of bar codes being used.

When the CM-500M is detached from its cable it can be used remotely to collect and store data, the CM-500MV2 has a maximum storage capacity of approximately 4000 library bar codes. For security reasons it is recommended that data is collected and downloaded in smaller batches of a few hundred at a time.

In order to download the collected data the CM-500M must be reconnected to the computer using the supplied USB cable. When the library software has been prepared to receive the collected data downloading from the CM-500M is initiated by simply scanning the supplied command bar code "CM-500M SEND DATA". The collected data can also be downloaded into popular data editors like Notepad or Wordpad and the files saved for further reference.

Once the collected data has been successfully saved the CM-500M memory can be reset/cleared to enable another batch of data to be stored. Clearing the memory is accomplished by scanning the supplied command bar code "CM-500M CLEAR DATA".

The CM-500M can also be optionally set to record the time and date when each remotely scanned bar code was read, this feature while not used for libraries enables the CM-500M to be used for many other applications including asset management, time management and auditing.

If the CM-500M is to be used as a conventionally tethered bar code scanner for lengthy periods of time care should be undertaken to ensure that the small cable connection plug and socket are not subjected to excessive stress and wear.

Replacement CM-500M command bar codes can be obtained from Dataman Barcode Systems for a nominal \$10.00 fee that covers postal and handling costs, or free if supplied with stamped and addressed envelope.

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CM-500M Regional Date & Time Entry Chart



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Barcode by Dataman

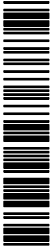
Set Regional Time & Date for TimeStamp

To set the current regional Date & Time on the CM-500M the "Set Date & Time" command is enabled by firstly scanning the "Start Instruction Mode" bar code followed by the "Set Date & Time" barcode.

Next, by using the decimal digit bar codes 0 - 9 in the right hand column scan a total of 10 digits to represent the current date & time.

Example:- 0910141220, the date/time output will be 2009-10-14 12:20 for **Year-Month-Date Time**. To complete the setting scan the **SET** bar code followed by the **Finish** bar code.

Start Instruction Mode

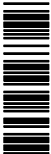


Set Date & Time

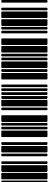


See above descriptor

SET



Finish



Start Instruction Mode



Time/Date Separator



Range #00 - #FF (Ascii Code)

SET



Finish



Settings will be reset to default conditions.

Start Instruction Mode



ALL DEFAULT



Set time and date formats as below for compatibility with Bar-Key. (Optional)

Start Instruction Mode



Date Format



Time Format



Finish



Tab or Comma separators for Time, Date & Data see user manual for other characters.

TAB



0



9

COMMA



2



C

CM-500M Instruction Commands

Barcode by Dataman

Provides an adequate time delay period between each data record downloaded.

Data Download Delay

Delay

Start Instruction Mode



Finish



Clear Stored Data

CLEAR



Download Data to Host Computer

SEND



Start Instruction Mode



<Memory>

Disable Download Header



Enable Download Header



Finish



<End>

Good read off mode:- LED source automatically turns off after successful barcode read.

Start Instruction Mode



Start Instruction Mode



Trigger Off Scan Mode



Finish



Disable TimeStamp



Enable TimeStamp



Finish



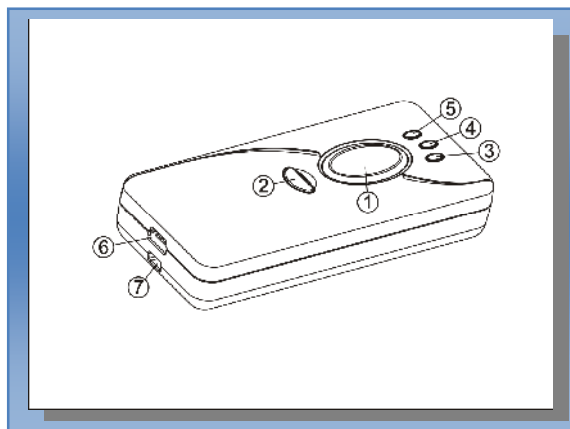
Warning:- Timestamp must be enabled to report correct time and date of recorded data.

Configuration Instructions

This Quick start gives you a quick understanding of how to operate the memory scanner and function keys. More product configuration options, please refer to standard user manual provided in the CD.

Overview of situations

- The scanner can be used in memory mode and USB cable mode.
- To connect the scanner with the USB cable, it will automatically switch to USB cable scanner.
- USB cable can be used as file transferring cable and battery recharge cable.
- When recharging the battery, if red LED is flashing rapidly, it means recharge failure. Please contact local distributor.
- No extra software needed for uploading the barcode data from memory to PC.
- Transmitting / Clearing barcode data by pressing the erase key OR scan the send / clear barcode in page 5.



Function keys and LED Indicator

① **Scan key:** Read or store barcode data. **Green** LED will be indicated when scan key pressed.

② Erase key:

- **Erase single data:** press the erase key and point to the scanned barcode, this action will erase the previous saved barcode data in the memory scanner.
- **Erase all data:** press and hold the erase key for approximately 8 seconds until the red light indicator on, and beep sound indicates. All barcode data saved in the memory will be erased.

③ **Power indicator:** when the battery is running low, pressing the scan key, the red LED will be indicated. During the recharging process, the red LED will be always on. When recharging process is completed, the red LED will be flashing slowly while cable is plugged in.

④ **Good read indicator:** When the barcode is successfully read, the orange LED will be indicated.

⑤ **Wireless indicator:** When initiating Bluetooth connection Blue LED will be flashing, if connection established, Blue LED will be always on.

⑥ **USB Port:** charge battery or data transmission.

⑦ **Strap hole**

Scanner Operation Guide

Operation Mode

When plug in the USB cable with scanner.

- a) It will start with short melody and the red LED will be indicated.
- b) Execute Word, Excel or any word processing software; scan the barcode will transmit the barcode data to the word processing software in real time.
- c) When barcode successfully read, beep sound and green LED will be indicated.
- d) Uploading the saved barcode data from memory to PC, press the Erase key for few seconds until beep sound indicates. **OR** scan the **"Send"** barcode (page 5). It will automatically send the saved barcode data to PC.

Note: after uploading the barcode data to PC, the barcode data in the memory will not be erase. User needs to erase the barcode data manually **OR** scan **"Clear"** barcode (page 5) to erase all barcode data.

When Unplug the USB cable with scanner.

- It will automatically switch to Memory scanner.
- Press the erase key and point to the scanned barcode label, this action will erase the previously saved barcode data in the memory scanner.
- Press and hold the erase key for approximately 8 seconds until the red LED and beep indication, all barcode data saved in the memory will be erased.

Transmitting barcode Data



Connecting USB cable and scan this Barcode will transmit the barcode data to PC.

Clearing all saved barcode data



Clear all barcode data in the memory

Warning: Scan the “Clear” barcode will lose all the barcode data.

Important Notice:

- Do not beam the light source to eyes, it may cause discomfort.
- When the red LED is flashing, it indicates the battery is running low. Please recharge the battery as soon as possible.
- The scanner battery can be recharge by USB cable or power adapter (sold separately).
- First time battery charge will take about 1.5 hours. During the battery recharge process, the red LED will be on. If the battery is fully charged, the red LED will be flashing per 2 seconds.
- If using USB cable to charge the battery, make sure your PC is not in power saving mode. Avoid any USB HUB devices to charge the battery.
- Any damages or malfunctioning, please contact with your local dealer. Do not open the scanner by yourself, warranty will not apply.

Caution: This information is subject to change without prior notice.

CM 500 Series

2 in 1 Memory / USB Cable

Scanner

Quick Start



<http://www.canmax.com.tw>