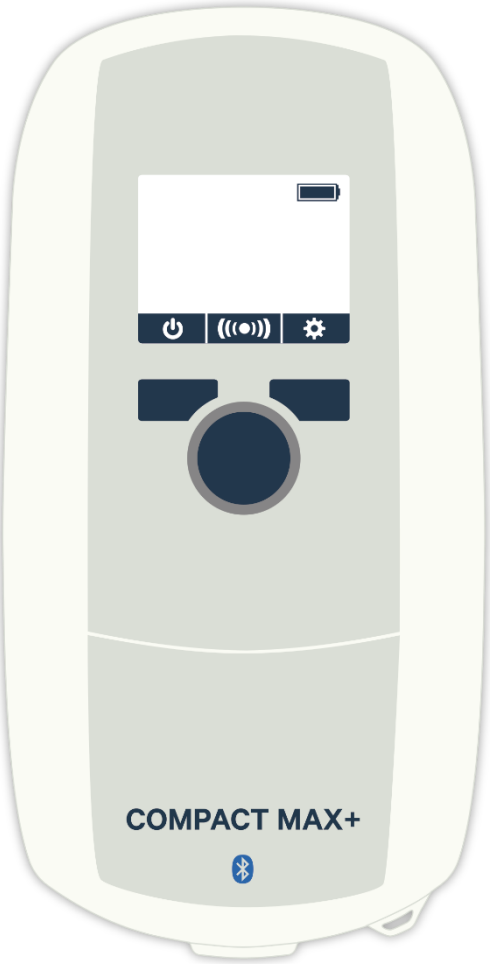
COMPACT MAX+ RFID SCANNER

USER MANUAL



COMPACT MAX+ User Manual

This user manual will guide you through the basic functionalities and operations of your scanner, including the use of its accompanying mobile APP.

CONTENT:

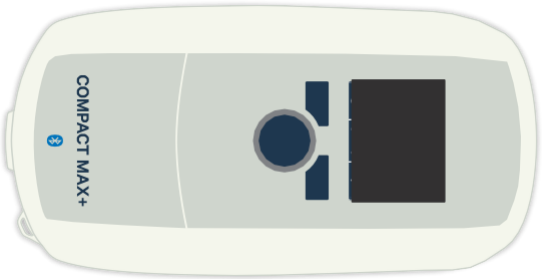
Introduction

COMPACT MAX+ is a low-frequency RFID scanner that can read FDX-B (ISO), FDX-A/Fecava, Avid Enc. and Trovan microchips. It features a compact design with a pocket-sized dimension, an integrated Bluetooth® low-energy module, and a storage capacity of over 4,000 microchip codes. Additionally, it is supported by a user-friendly mobile APP that enhances its functionality and provides a more intuitive way to manage the scanner’s software updates and registered microchip data. This makes COMPACT MAX+ the perfect scanner for daily activities.

Getting started

UNPACKING:

Check to have the following items in the box:



COMPACT MAX+ scanner

USB-C charging cable

USB power adaptor and country specific power plug

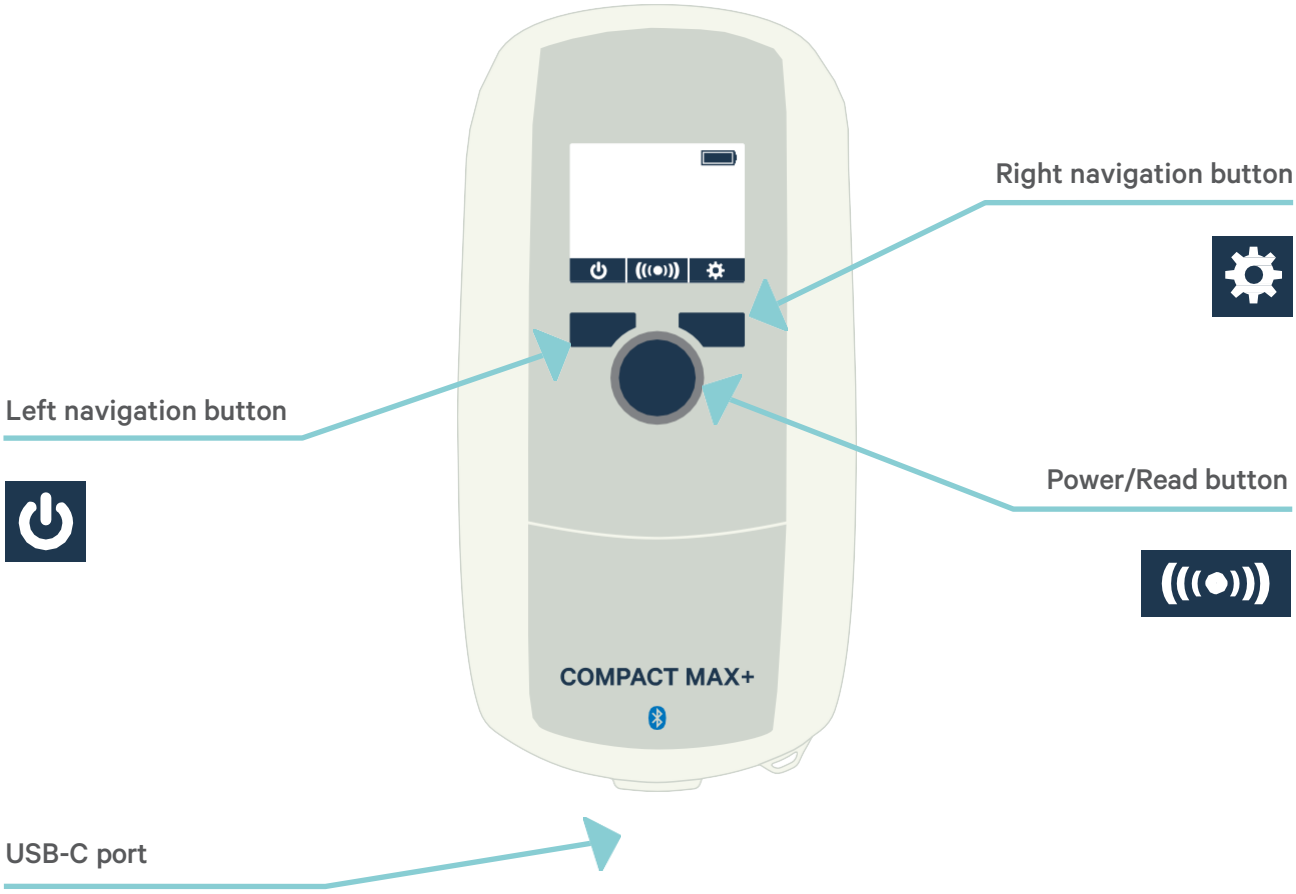
CHARGING:

To charge the scanner assemble the power plug with the main power adaptor.

Connect the included USB cable to the scanner and plug it into the USB power source, it is advised to have the scanner fully charged before starting to use it.

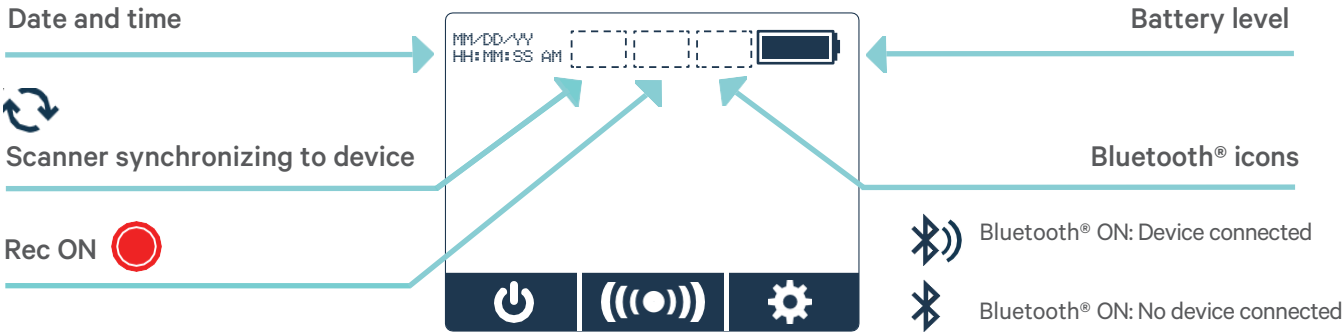
TURN THE SCANNER ON:

To turn the scanner ON press once the power button (central big blue button):



THE HOME SCREEN:

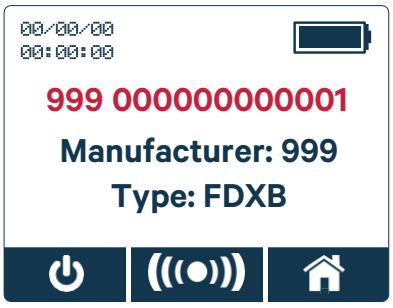
When turning ON the scanner the following home screen will appear. By using the right navigation button , you will be able to access the setting functions (later explained in this manual). When the "REC" function or Bluetooth is activated in the setting menu, the corresponding symbols will appear in the home screen.



Reading ID Microchip number

To start a reading session, make sure your scanner is ON, then bring the scanner close to the pet skin and click on the central button. 

If a microchip is detected the scanner will emit a beep sound and the ID number will appear on the screen. The scanner allows the ID number to display in the ISO 15-digit format. When a microchip is detected, the following information will be displayed: 15-digit ID, manufacturer or country code (if applicable), and below that, the type of RFID Microchip detected. If no microchip is found within 60 seconds “Tag not found” will appear on the scanner’s screen:



15 digit

Microchip not detected

To stop the reading session use the same button used to activate it.

Note: By default, the scanner does not record microchip numbers so make sure to turn the “REC” function ON from the setting menu, to allow the scanner to store in its internal memory the read microchip number. When the “REC” function is ON the dedicated icon will appear in the top bar of the scanner’s home screen.

TIPS FOR EFFECTIVE SCANNING:

1. **Know the Correct Implantation Site**
   International guidelines have been set to recommend microchips implantation sites[1]. Based on animal type, geography and species, the implantation site might vary. The common standard is a subcutaneous position on the left side of the neck OR between the shoulder blades.
2. **Positioning the Scanner**
   For optimal reading, keep the scanner parallel to the animal's body (see Fig. 1) and avoid pointing it directly at the animal. Scanning should be performed slowly and over the entire body holding the scanner close to or touching the animal skin/fur.
   - Slowly wave the scanner back and forth while scanning; microchips can be located in various orientations within the animal.
   - Scan the animal performing a vertical "S" pattern down the animal's body or animal side starting from the neck, as shown in fig. 1 and fig. 2.
3. **Repeat Scans if Necessary**
   If a microchip is not detected the first time, try scanning each animal more than once and not only in the recommended implantation sites because microchips might have moved.

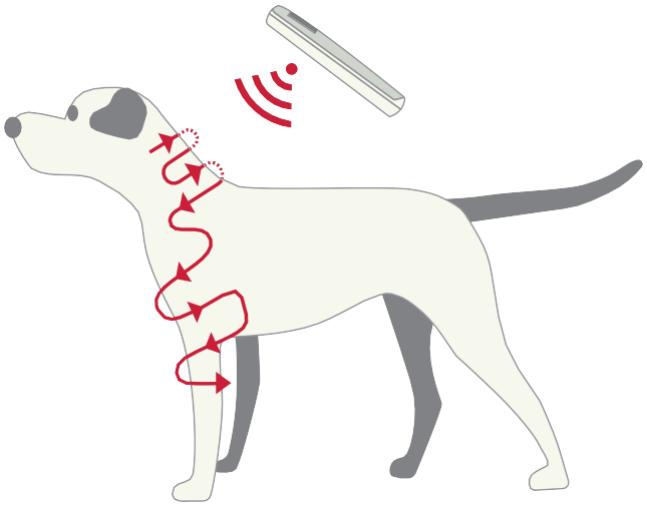


Fig. 1

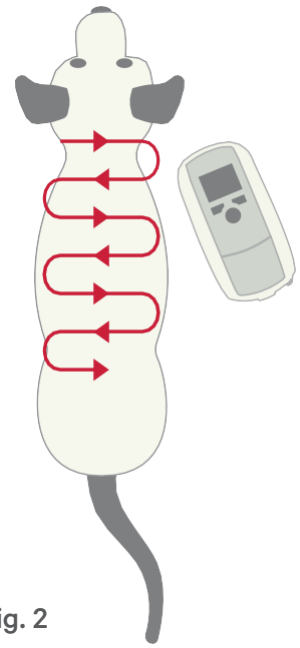


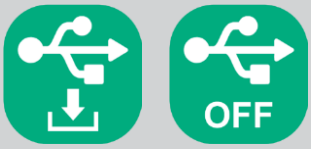
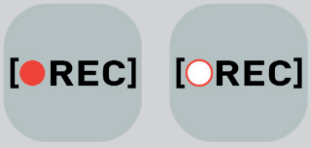
Fig. 2

[1] For more information about microchip implantation and scanning, please visit the World Small Animal Veterinary Association's website at www.wsava.org

Scanner settings

Some settings can be modified directly from the scanner.

From the home page, select the settings icon using the right navigation button , the following icons will be available:

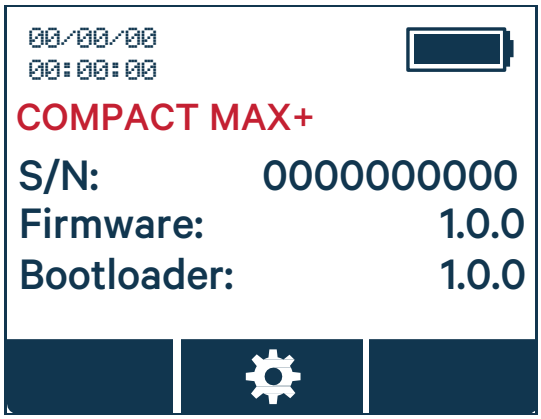
ICON LEGEND	
	Bluetooth® ON/OFF
	Info (scanner's name, firmware, serial number and bootloader versions)
	Delete memory ("#" is the number of codes stored in the memory).
	Download memory file on PC enabled (USB connected) Download memory file on PC disabled
	Recording ON / Recording OFF (Memory File Disabled)

BLUETOOTH® ON/OFF:

Bluetooth can be turned ON/OFF upon necessity. By default, the Bluetooth will be set on OFF.

INFO:

Selecting this icon displays important information that can be necessary for troubleshooting, including the product name (which can be changed via a dedicated app), the serial number, firmware version, and bootloader.



DELETE MEMORY:

This icon serves as a convenient indicator of the number of microchips stored within the internal memory of the scanner. By selecting this icon, the entire scanner memory can be deleted after the user confirms their selection.

Note: Even if the memory reaches full capacity, the scanner remains fully functional, allowing you to read and store new microchip numbers that automatically overwrite the older entries. This feature ensures continuous usability and efficient management of stored data within the scanner's memory.

DOWNLOAD MEMORY FILE:

If you wish to export the saved data to your computer:

1. Connect your scanner to a PC via USB cable.
2. Go to setting and enable the “Download memory file on PC” icon  by clicking on the power button.

This feature transforms the scanner into a PC peripheral, facilitating the transmission of ID Codes saved in the scanner to your computer in a .CSV file format. The exported file will include the following details: date, time and scanned microchip number.

After downloading the file, the message downloading will keep appearing on your scanner screen. To continue use your scanner click the central button or detach the USB cable.

It’s important to note that any modification made to the file will not impact on the scanner’s memory or the integrity of the saved data.

Note: When connected to a PC via USB, the COMPACT MAX+ will automatically start charging. The scanner can be used; however, it will not be possible to read new microchips. To start a new reading session the scanner will need to be detached from the USB cable.

REC ICON:

To allow data to be stored and saved in the scanner internal memory, the recording function needs to be activated. Turn ON/OFF this function by clicking on the power button, when ON a rec symbol  will appear in the center of the screen top bar.

Bluetooth® connection

The COMPACT MAX+ features an integrated Bluetooth® Low Energy (BLE) module for efficient and low-power, enabling connectivity with your phone or other Bluetooth-enabled devices*. Here the steps to establish a direct connection:

1. Activate Bluetooth® on both the scanner and the target device, ensuring they are within each other's range.
2. On your phone or target device, initiate a device search. A list of available devices will be presented.
3. Locate and select your scanner from the list. The default name of your scanner is "CMAX+" followed by the scanner's serial number. The Scanner name is also available in the settings in the INFO section.
4. Once the pairing process is successful, you'll notice the Bluetooth® icon with two waves appearing in the top bar of the screen  , indicating that the scanner is correctly connected to the device.

This straightforward procedure ensures efficient connectivity between COMPACT MAX+ and your preferred Bluetooth-enabled device.

Note: *Always remember to disassociate the scanner from the target device after use. Failure to do so results in automatic reconnection every time the scanner is powered ON and within range of the target device.*

USING THE SCANNER IN KEYBOARD WEDGE (KBW) MODE:

When connected to a device via Bluetooth® the scanner is seen as a keyboard. If a microchip is read this will be displayed on the device screen in any window where a cursor is active. No configuration is necessary on the device. The KBW mode can be deactivated using the APP (Next chapter).

* *This technology is not backward compatible with previous apps, including those developed by third parties or clients, due to a different communication protocol.*

“Datamars Pet scanner support” APP

Download for free the dedicated APP “Datamars Pet Scanner Support” from google play or APP store.

The APP will allow you to enhance your scanner functionalities by:

- Showing and pushing Software updates
- Allowing you to modify your scanner’s name
- Manage your scanner memory:
    - Share the memorized entries
    - Download data in a file
    - Cancel single or multiple saved data
- Search for microchip in proprietary databases or search engine
- Turn ON/OFF the keyboard wedge function

PAIRING:

Opening the APP make sure to have turned your COMPACT MAX+ Bluetooth® ON.
By Clicking on “Connect new scanner” the APP will start searching for your scanner and by selecting on “Connect” the pairing will happen.

Note: *If a connection is initiated with an iOS device, the system will ask to pair the two devices. If pairing is confirmed, please remember to disassociate the scanner from the phone after APP usage. Failure to do so will result in automatic reconnection every time the scanner is powered ON and within range of the target device.*

UPDATE YOUR SCANNER:

The scanner and the APP are subject to continues improvements. The APP will allow you to push Software updates, which are important to optimize scanner’s usability. Run software updates any time the APP notifies a new version is available. If the battery is less than 20%, you will need to charge the scanner before starting the update.

SETTINGS:

The APP will allow you to:

- Automatically Synchronize the date and time according to your smart phone settings.
- Give the possibility to change the scanner's name. Default name of your scanner is "CMAX+" plus Serial number.
- Manage "Keyboard wedge" function. This will allow your scanner to be seen by other devices as a keyboard. The microchip numbers will be displayed on the screen in any window/tab where the cursor is active.
  Note: Every time this setting is turned ON or OFF, the scanner information will be deleted from the app, and a new connection will be necessary
- See all relevant information about your scanner in the info section:

  - Scanner's name.
  - Serial Number.
  - Firmware.
  - Bootloader.

READING SESSION AND MICROCHIP SEARCH:

A "Database Search" function is available. When getting access to this section a reading session can be initiated from either the scanner or the APP. If a microchip is found, the APP will automatically search for it in a supported database and the result will be provided.

SAVED MICROCHIPS:

All microchips stored in the scanner's memory can be accessed in the Saved Microchips section, organized by the date they were recorded. Selecting a microchip will display its registration date and time. From this screen, you can search for the microchip ID in proprietary database or search engine or share it via your preferred method.
When the scanner is connected to the app, this section allows you to delete microchips from memory—either all at once or individually. If the scanner is not connected, the app still provides access to the list of microchips saved during the last connection, enabling you to search those microchip IDs in the proprietary database or search engine.
Note: Every time a new connection is established between the scanner and the app, this section automatically updates to display all microchips saved in the scanner's memory that were scanned between the previous connection and the current one.

SEARCH HISTORY:

Each time a microchip number is searched in a database this information will be stored in a dedicated section of the APP called, "Search History". This APP section will always be available even when the scanner is not connected.

Maintenance and servicing

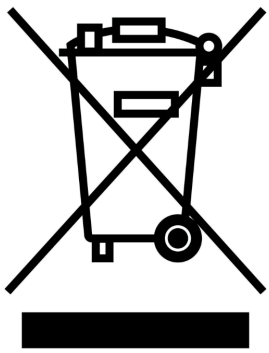
UPDATING YOUR SOFTWARE:

To ensure optimal performance, update your scanner whenever a new software version is available. Simply connect your scanner to the APP and, If an update is available, a message will appear on the APP's homepage. Click on "Update" and follow the on-screen instructions to complete the process.

CARING FOR THE SCANNER:

Wipe the scanner using damp cloth, do not use cleaners that might damage the case or screen. Do not immerse the scanner in water. Do not leave the scanner where it may be exposed to extreme temperatures (e.g. on the dashboard of a vehicle). Store the scanner in a cool, dry place. Fit the dust cap when there are no cables connected to the COMPACT MAX+ scanner. This will prevent moisture and dirt from ruining the scanner. If for any reason your scanner is not working, please do not attempt to repair it but return it to your local dealer.

EUROPE - INSTRUCTIONS FOR DISPOSAL OF PRODUCT



This symbol on the product indicates that this product (and its batteries) must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product. This product incorporates both a lithium-ion (LiNiMnCoO2) rechargeable battery and a lithium metal (CR1220 35 mAh) button/coin cell battery.

Compliance

FCC NOTICE:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING:

Note: According to FCC15.21, users are cautioned that Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Responsible party in the USA
This product is supplied by:
Datamars Inc
345 West Cummings Park, Woburn, MA 01801, United States

ISED CANADA NOTICE:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes: (1) Cet appareil ne doit pas causer d'interférences (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.

UK DECLARATION OF CONFORMITY

Hereby, Datamars declares that the radio equipment type COMPACT MAX+ follows the relevant statutory requirements.

EU DECLARATION OF CONFORMITY

Datamars Limited hereby declares that the radio equipment CMAX+ is in compliance with the essential requirements and other provisions of Radio Equipment Directive 2014/53/EU.

Importatore EU:

Datamars Ibérica, S.L.U.
Polígono Industrial Romica,
Calle Atenas 29,
02007 Albacete, España

DATAMARS
Pet

PetLink Mailing Address:
Datamars, Inc. 345 West Cummings Park, Woburn, MA 01801
Contact us at:
1-877-PETLINK (738-5465)
Or email us at:
petlink@petlink.net
www.petlink.net | ussales@datamars.com