Instruction Manual
c-ident – Handheld Terminal HT11

Contents

1 Introduction

The c-ident handheld terminal HT11 is a device for logging transponders and bar codes. It is used to read and display the chip numbers. It stores the collected IDs with a time stamp and the location coordinate (GPS). The data transfer to the office computer is done by means of USB connection.

We recommend a daily transfer of the collected data in order to avoid a possible loss of data.

1.1 Display and Key pad

The instrument has an 8-line alphanumeric display with 20 characters each. Operation is made via three keys situated below the display. You can start reading a transponder or barcode via these keys. Below the keys, there are three LED's showing the online connection, the charger and GPS reception.

1.2 Charger

On the USB socket, a power supply with mini-USB connector can be connected. Alternatively, the loading on the USB port of your PC is possible. The charging process is indicated by the red LED. It disappears when the charging is interrupted or complete.

1.3 Starting up / Installation

The handheld terminal is powered from 3 rechargeable batteries type Micro / AAA. Please use rechargeable NiMH batteries with at least 1000 mAh.

Before using it is necessary to set the internal clock. Please see Chapter 2 Section *Set Time*.

The device has an internal backup battery for operation of the real-time clock and the GPS reception. This can bridge a period of about 8h. It will be required if the operation batteries are removed from the device or they are totally discharged.

Important:
During the start-up phase, leave the device switched on for as long as possible (eg in online mode), so that the battery can be fully charged. To achieve the full battery performance it is recommended to charge and discharge the device completely in the first two cycles.

Please do **NOT** use non-rechargeable batteries. The device might accidentally be charged and damaged (e.g. when connecting to a computer via USB cable).

Please make sure that the handheld does not heat up over +60°C.

Turn on the handheld by pressing any key. Turn it off by pressing F3 for a few seconds.

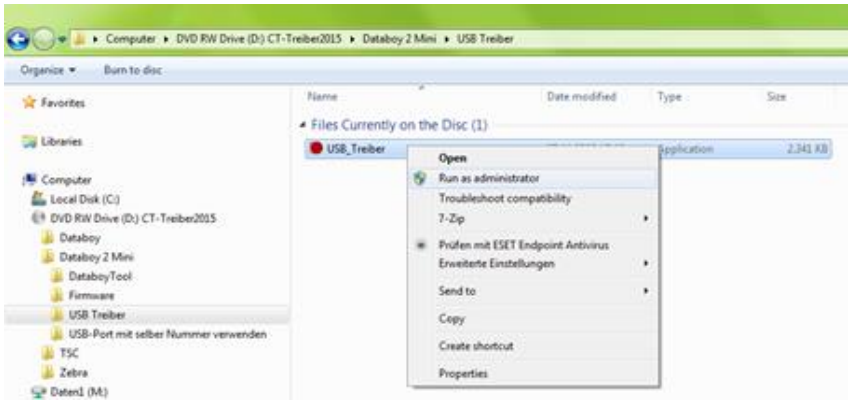
The office software offers three modes that can be set via function set mode (see Chapter 2):

- **Barcode-tag allocation (Marry)**: The chip number and barcode along with a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.
- **Barcode-tag allocation with additional information**: The chip number, barcode and additional information along with a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.
  The additional information (status) is selected from a stored list by using the arrow keys on the device. With F1 and F2 you scroll down the list and take over the selected status with F3.
- **Emptying**: The chip number or the barcode along with a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.
- **Emptying with additional information:** The chip number OR the barcode and additional information along with a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.

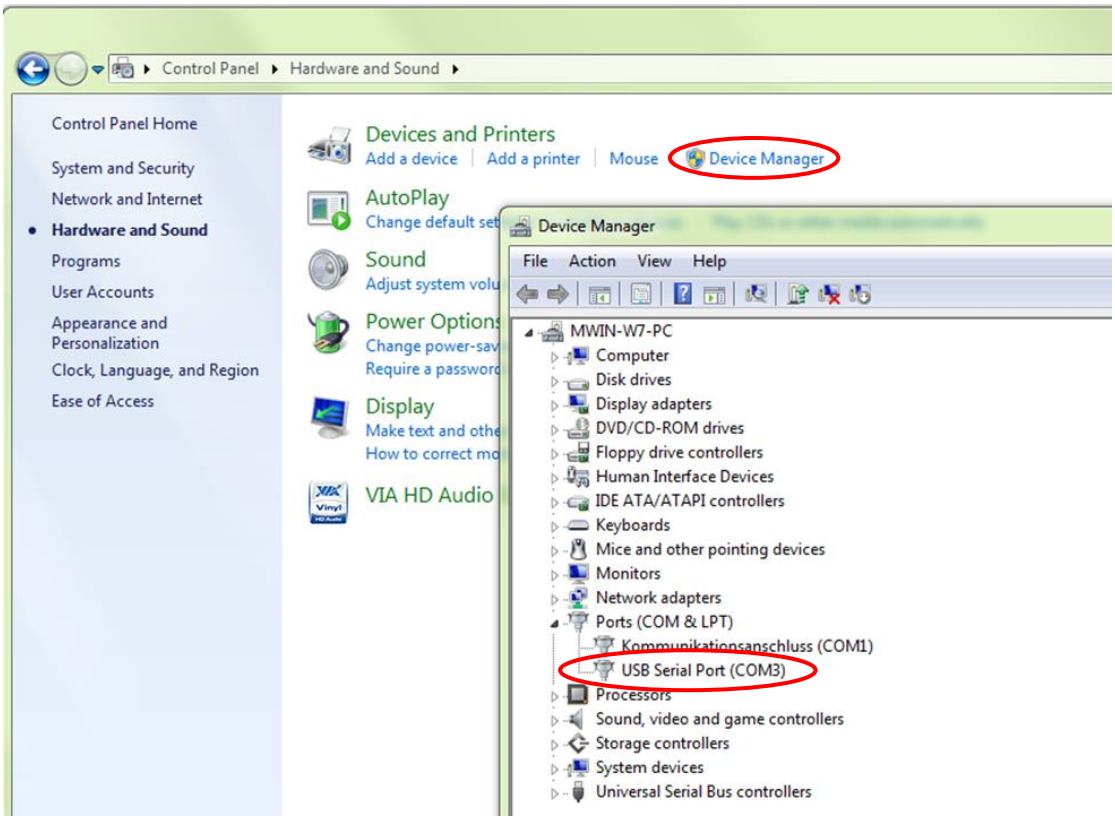
1.4 Driver Software

Is a prerequisite for effective communication that the USB port is set up correctly. Open the folder *USB Treiber* on the CD supplied. Click the right mouse button on *USB_Treiber* and select *Run as administrator*. If you do not have permission to install the driver, an error message appears. In this case, please contact your administrator.

Connect the HT11 to your computer with the supplied USB cable. The device driver software will be installed.



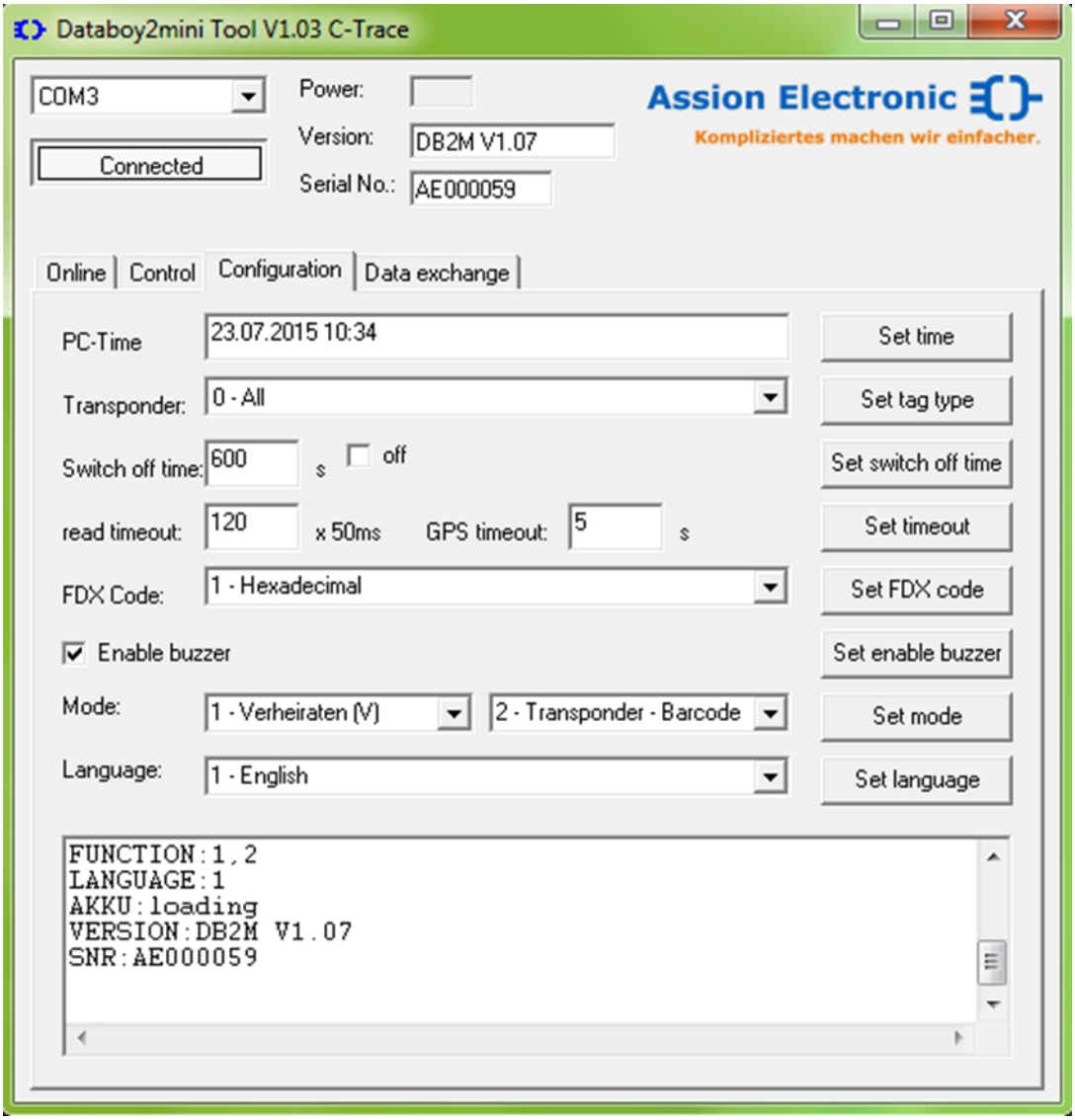
The device manager (control panel ⇨ hardware and sound ⇨ devices and printers ⇨ device manager) now shows the communication port.



2 Configuration

Please open the software *SetupDataboy2miniToolVx.xx* in the folder *DataboyTool* on the installation CD and follow the installation instructions. This allows quick access to the handheld from the PC and is used for configuration.

Select the virtual communication port in the Databoy tool on **the top left** (usually it already shows the correct port, see screenshot on the next page). Make sure the handheld is turned on. The connection is made to the HT11 by clicking the button *Connect*. It changes to *Connected* when the connection process is completed. The handheld indicates success with the message *online* on the display.



The changes are always done via the button *Set* ... The response in the control window indicates the success.

- ***Set time***:
  Enter date and time.

- ***Set tag type***:
  Select the type of transponder to be read. „0" means that the devices reads all the transponders it is able to read.

- ***Set switch off time***:
  Determines after how many seconds the handheld will turn off automatically.

- ***Set timeout***:
  Determines how long the handheld will search for a chip.

- ***Set FDX code***:
  Chip numbers can be displayed in different codes in compliance with ISO 11784/11785. Please select *1 – Hexadecimal.*

- ***Set enable buzzer***:
  The buzzer that signals the reading and scanning process can be switched on or off.

- ***Set mode (menu only available in German)***:
  Specifies which mode the handheld will operate in (see chapter 4):

  - Barcode-tag allocation (*Verheiraten, Marry*)
  - Barcode-tag allocation with additional information (*Verheiraten mit Info*)
  - Emptying (*Leerung*)
  - Emptying with additional information (*Leerung mit Info*)

- In the second field the following is displayed:

  - **Allocation** (*Verheiraten, Marry*):

0	any order is possible (*beliebig*)
1	Barcode – Tag
2	Tag – Barcode (recommendation)
3	Tag – Tag
4	Barcode – Barcode

  - **Emptying** (*Leerung*):

0	Both tags and barcodes will be stored in the emptying dataset
1	Only barcodes can be read
2	Only tags can be read
3	Only tags can be read
4	Only barcodes can be read

- ***Set language***:
  Available languages are German, English, French and Polish

3 Adding Additional Information with the Databoy Tool

If you want to add additional information to an emptying or allocation dataset, this must be defined prior to operation. The additional information is stored in a simple Excel csv-file.

	A	B
1	1	Bin overfilled
2	2	Wrong waste type
3	3	Bin body broken
4	4	Wheel broken
5	5	Lid broken
6	6	Chip defective

The file consists of two columns:

1. Consecutive number
2. Text for additional information

Then the file is transmitted via the DataBoy2mini tool. Please open the tab *Data Exchange ⇨ load selections*. Select the file the information is to be transferred from.

4 Operation

Press one of the function keys to turn the handheld on.

- F1: Read a transponder
- F2: Read a barcode
- F3: shows the last dataset created

4.1 *Allocation* (Verheiraten)

The chip number and barcode along with a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.

- Firstly, press the button F1 *Read* to read the chip
- Secondly, press the button F2 *Scan* to scan the barcode
- If a valid GPS position is found, it will be added to the dataset
- Upon completion of the acquisition, a message is displayed and the dataset is shown. If no further input, the device switches off automatically after the preset time. Alternatively, the device can be switched off by holding the F3 key for a few seconds.

4.2 Allocation with Additional Information (Verheiraten mit Info)

This mode corresponds to the mode *Allocation* but an additional information must be entered after reading the chip and the barcode. The message is selected from a stored list using the arrow keys on the device. F1 and F2 are used to scroll down the list and F3 takes over the selected message.

Upon completion of the acquisition, a message is displayed and the dataset is shown. If no further input, the device switches off automatically after the configured time. Alternatively, the device can be switched off by holding the F3 key for a few seconds.

4.3 Emptying (Leeren)

In the emptying mode, only one ID is selected, i.e. either the barcode or the chip. This ID along with a time stamp and a GPS coordinate, if available, is stored in the internal memory of the HT11.

Upon completion of the acquisition, a message is displayed and the dataset is shown. If no further input, the device switches off automatically after the configured time. Alternatively, the device can be switched off by holding the F3 key for a few seconds.

4.4 Emptying with Additional Information (Leeren mit Info)

This mode corresponds to the *Allocation* mode but an additional information must be entered after reading the chip or the barcode. The message is selected from a pre-stored list using the arrow keys on the device. F1 and F2 are used to scroll down the list and F3 takes over the selected message. The message along with the ID, a time stamp and a GPS coordinate, if available, are stored in the internal memory of the HT11.

Upon completion of the acquisition, a message is displayed and the dataset is shown. If no further input, the device switches off automatically after the configured time. Alternatively, the device can be switched off by holding the F3 key for a few seconds.

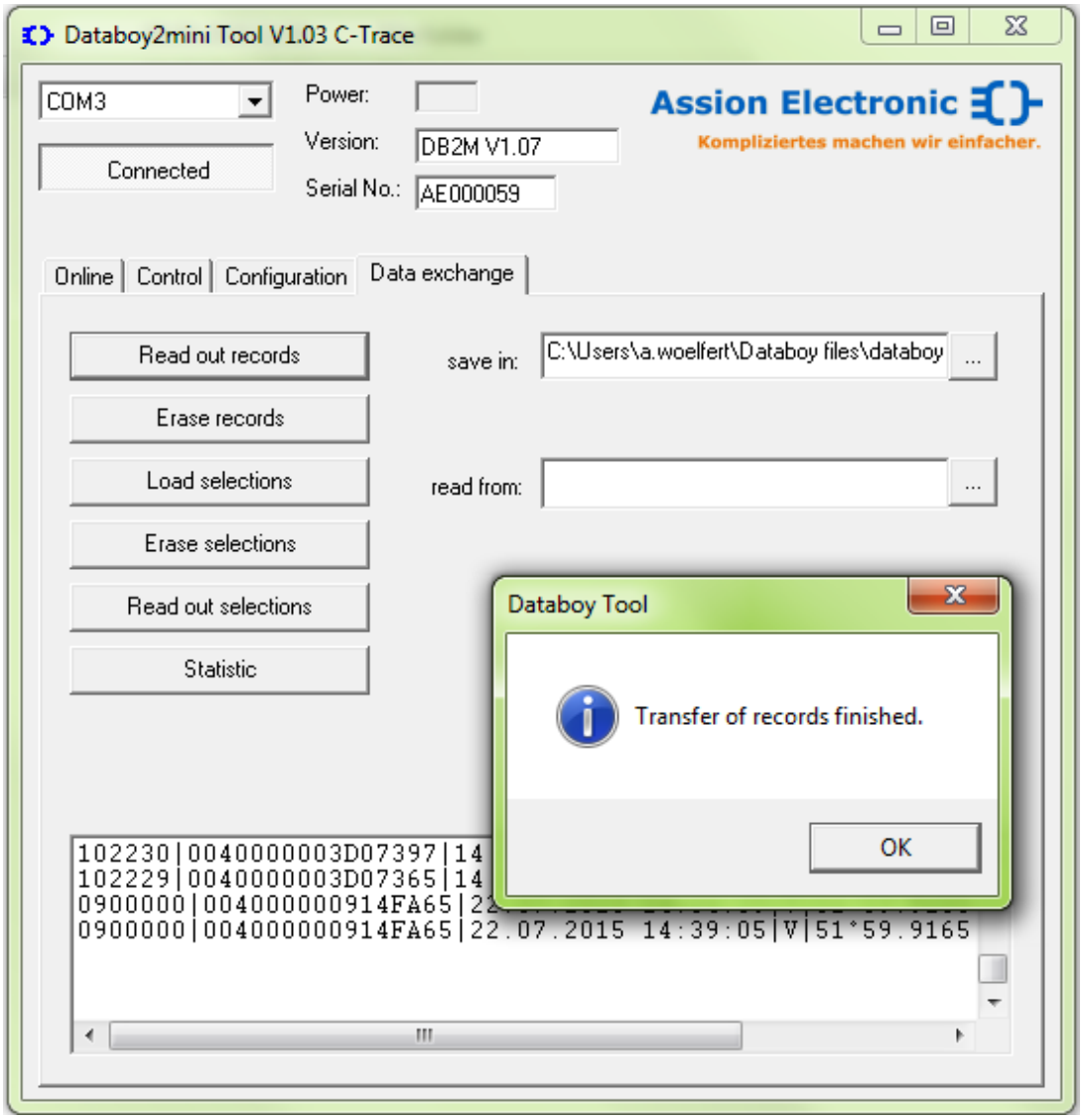
4.5 Display Bookings

If you start the handheld with the F3 key, the display shows the last data set stored. It reads:

- Type of booking: V = Allocation (Marry), E = Empty
- The ID's of the booking: chip or chip and barcode
- The time stamp
- The additional information (if any)
- The GPS coordinates (if available)

Use the F1 and F2 keys to scroll down the list of saved entries. Pressing the F3 key exits the mode.

4.6 Data Takeover



Move to the tab *Data Exchange*. You save the data by pressing the button *Read out records*. Select the destination folder in the field s*ave in:*. If you want to delete the data from the HT11, press the button *Erase records*. The created file can be opened in Excel format by clicking on the file with the right mouse button and select *Open with Excel*.

5 Technical Data

General	
Overall Dimensions (LxWxH)	120mm x 67mm x 32mm
Weight incl. batteries	approx. 200g
Colour	Graphite grey RAL 7024
Housing material	ABS
Protection type	IP65
Temperature range	Standard: -10°C to 60°C
Power supply	3 rechargeable batteries type Micro AAA min 1000mAh
Charging voltage	5VDC, Mini-USB
Operating time	4h with rechargeable batteries NiMH 1200mAh
Display	Grafical OLED display, 8 lines with 20 characters
Keyboard	Sealed keyboard with 3 keys
Memory	8MBit (1MByte)
Records	max. 4096 master data and 4096 loggings
Transponders	
Type 1 (MT03)	Read Only: Unique(EM4x02), ISO11784/11785 (FDX-B), Tiris HDX Read/Write: Q5, Hitag-1, Hitag-S 256 / 2048, Tiris HDX
Barcodes	
Barcodes 1D	UPC/EAN (EAN-13), Code 128 (UCC/EAN-128), Code 39, Trioptic Code 39, Code 39, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI Plessey