



USER MANUAL LID 665 / LID 650



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Lid 665/650 Animal Identification System

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1. Available reader types

1.1 Lid 665:

- Housing size: 160mm x 75mm x 55mm
- Antenna types: Single Coil only
- Antenna diameter: up to 100mm
- Voltage: 12 Volt/DC
- Power Consumption: 100 mA / max. (depending on antenna Type)
- Storage: up to 6.000 codes with date and time. (12.000 codes with memory extension)
- Using conditions: Outdoor Usage. IP 67 / UV Protected

1.2 Lid 650:

- Housing size: 190mm x 75mm x 55mm
- Antenna types: Single Coil or Multi Coil
- Antenna diameter: up to 300 mm (Single Coil) or Multi Coil Plate Antennas
- Voltage: 12 Volt/DC
- Power Consumption: 250-500 mA / max. (depending on antenna Type)
- Storage: up to 6.000 codes with date and time. (12.000 codes with memory extension)
- Using conditions: Outdoor Usage. IP 67 / UV Protected

2. Features of the readers

The Lid 665 and Lid 650 RFID Reading System is designed for animal identification. It can read 134,2 kHz ISO-FDX-B and 128 kHz Trovan Transponders.

The housing and connectors at the reader side and the single coil antennas are ready for outdoor usage. They are protected against rain and hard UV conditions. The multi coil plate antennas can also be protected like this on request.

The reader works with an external 12V/DC battery. Because of security reasons we do not deliver batteries. The water protection at the battery side has to be done by yourself.

The reader has an internal memory to store the codes. It is basically designed as an stand alone system.

A live monitoring system with several readers in a row and data storage on an external computer that can store up to 1.000.000 codes is available on request. Please keep in mind that the computer must be placed in a protected place in that case.

3. Connections



4-Pole Antenna connector
(8-Pole for multi coil)

2-Pole power cable connector



3-Pole RS 232 Data cable connector (RS 485 connector on request)

! Positions of the connectors can differ depending on reader type !

4. Accessories

4.1 Power cable



2-Pole power cable to connect an external battery.
Standard length 3 meter. (other lengths on request)

Connection:

Brown: + 12Volt/DC

Blue: GND

4.2 Data cable



3-Pole data cable to read out the stored data from the reader.
Length 2,5 meter.

4.3 Moxa USB converter



Moxa Uport 1100 USB converter to connect the data cable to your computer.
Please install the Moxa USB driver before you plug in the device to your computer.
You can download it here: <https://www.euroid.com/produkte/tier/animal-identifikation/documentation-lid665-650-animal>

You can also find the driver at the Moxa website: <https://www.moxa.com>

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4.4 Antennas

4.4.1 ANT C-40



Single coil antenna for LID 665 and LID 650.

Dimension outside: 100mm x 60 mm

Dimension inside: 40 mm

Protection class: IP 67

Cable length: 4 meters

4.4.2 ANT C-100



Single coil antenna for LID 665 and LID 650.

Dimension outside: 125 mm

Dimension inside: 100 mm

Protection class: IP 68

Cable length: 4 meters

4.4.3 ANT SQR-300



Single coil antenna for LID 650.

Dimension outside: 300 mm x 300 mm

Dimension inside: 250 mm x 250 mm

Protection class: IP 68

Cable length: 4 meters

4.4.4 ANT 610f



Multi coil plate antenna for LID 650 (only for Trovan Transponders)

Dimension: 225 mm x 177 mm x 31 mm

Protection class:

Indoor version: IP 54 (Weight: 0,5 kg)

Outdoor version: IP 68 (Weight: 1,5 kg)

Kable length: 4 meters

4.4.5 ANT 612



Multi coil plate antenna for LID 650 (only for Trovan Transponders)

Dimensions: 475 mm x 400 mm x 40 mm

Protection class:

Indoor Version: IP 65 (Weight: 3 kg)

Outdoor Version: IP 68 (Weight: 8 kg)

Kable length: 4 meters

4.4.6 Custom made Antennas

It is also possible to get Customer-specific antennas in different diameters.
Please contact us for that.

5. Starting things up

5.1 The reader

- Connect the antenna to the reader
- Connect the power cable to the reader
- Connect a 12 V battery to the power cable

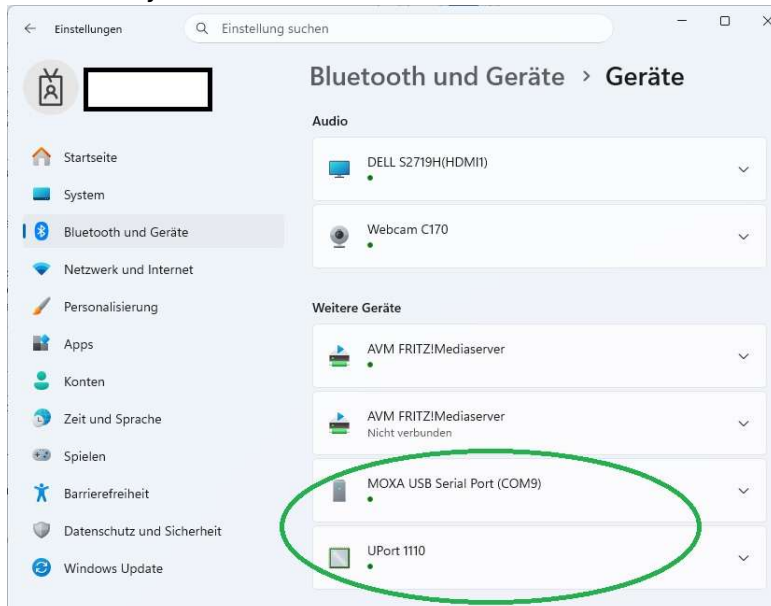
After connecting the power, the reader will beep twice as a start up signal.
After that the reader starts reading automatically.

Every time a Transponder is read you hear a beep sound and the transponder code is stored in the internal memory with date and time.

After the testing phase the buzzer can be switched off via the settings software.

5.2 USB converter

- First install the Moxa USB driver to your computer. (Download link in chapter 4.3)
- Plug in the Moxa USB converter to your computer.
- After that you can see it in the Windows Control Panel under devices.



It is highly recommended to read chapter 6. Important Information.

Please find information about the Software in chapter 7.

6. Important Information !!!

6.1 Metal

It is important that there is no metal near the antenna.

Metal can reduce the reading performance and in worst case it can destroy the reader or antenna.

This applies for metal plates, grids or squares.

Small mounting material like screws are no problem.

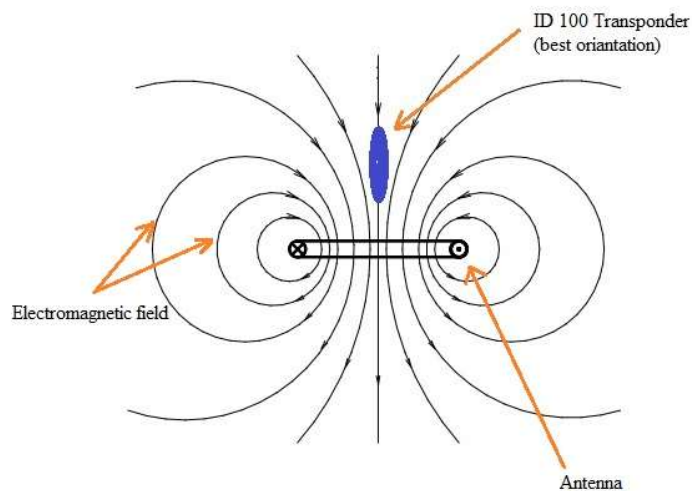
6.2 Transponder orientation

6.2.1 Technical basics

To get good reading results, the orientation of the transponder to the antenna is important.

The transponder has no battery and gets his energy out of the electro magnetic field of the

antenna. To get best performance the antenna of the reader and the antenna of the transponder should be parallel to each other:



A difference of +/- 40 degrees is still usable.

If you turn the transponder 90 degrees to the antenna, it will not get enough energy and can not be read any more.

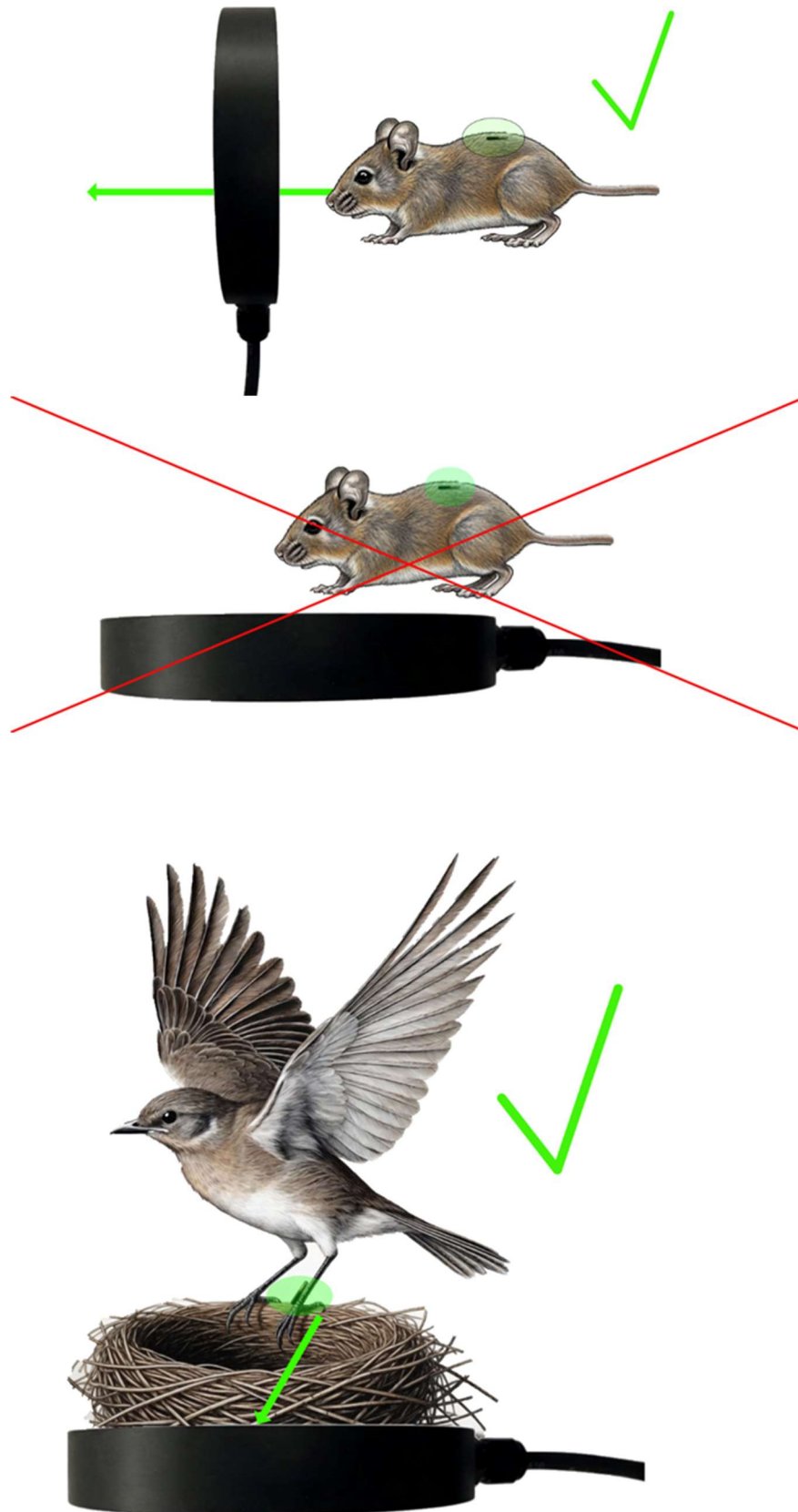
For the LID 650 plate antennas the situation is a bit different.

Also here you will get the best performance in the orientation like shown above.

Because of the special multi coil technology together with Trovan transponders they can also be read in the "wrong" orientation.

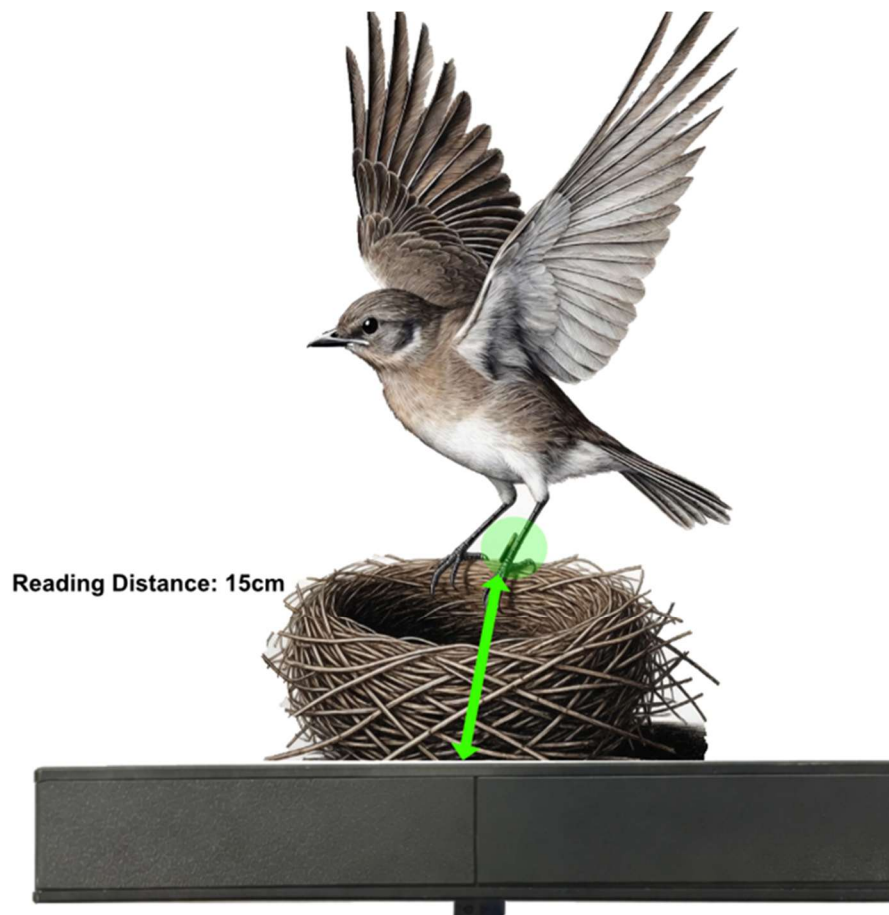
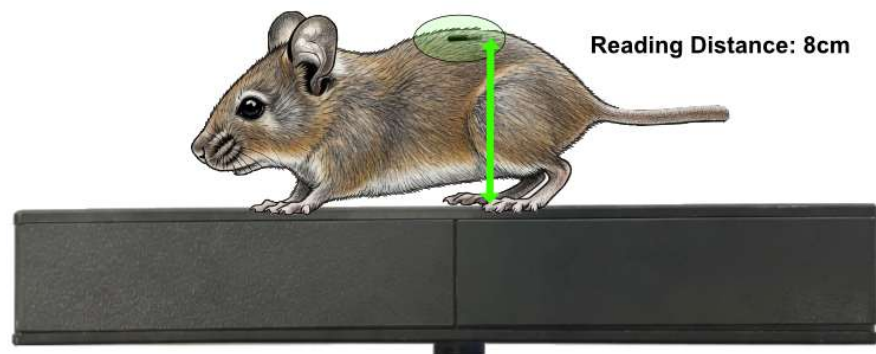
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6.2.2 Examples Single Coil Antennas (Trovan and ISO-FDX-B Transponders)



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6.2.3 Examples Multi Coil Antenna (ANT 610f / Trovan Only)





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6.3 Battery

You can use every 12 Volt/DC car, motorcycle or lead Battery.

Please chose a battery with a capacity for your needs.

Per ampere hours (Ah) the battery has got, the Lid 665 will work about 10 hours.

The Lid 650 will work about 4 hours with single coil antennas.

And about 2 hours with multi coil antennas.

Do not use power banks or lithium ion batteries this can decrease the reading performance.

7. Software

7.1 Installation

Download the EuroID Lid_Multi_Tool.zip from our Website:

<https://www.euroid.com/produkte/tier/animal-identifikation/documentation-lid665-650-animal>

Unpack the .zip file an drag the EuroID Lid_Multi Tool folder to your desktop or user folder.

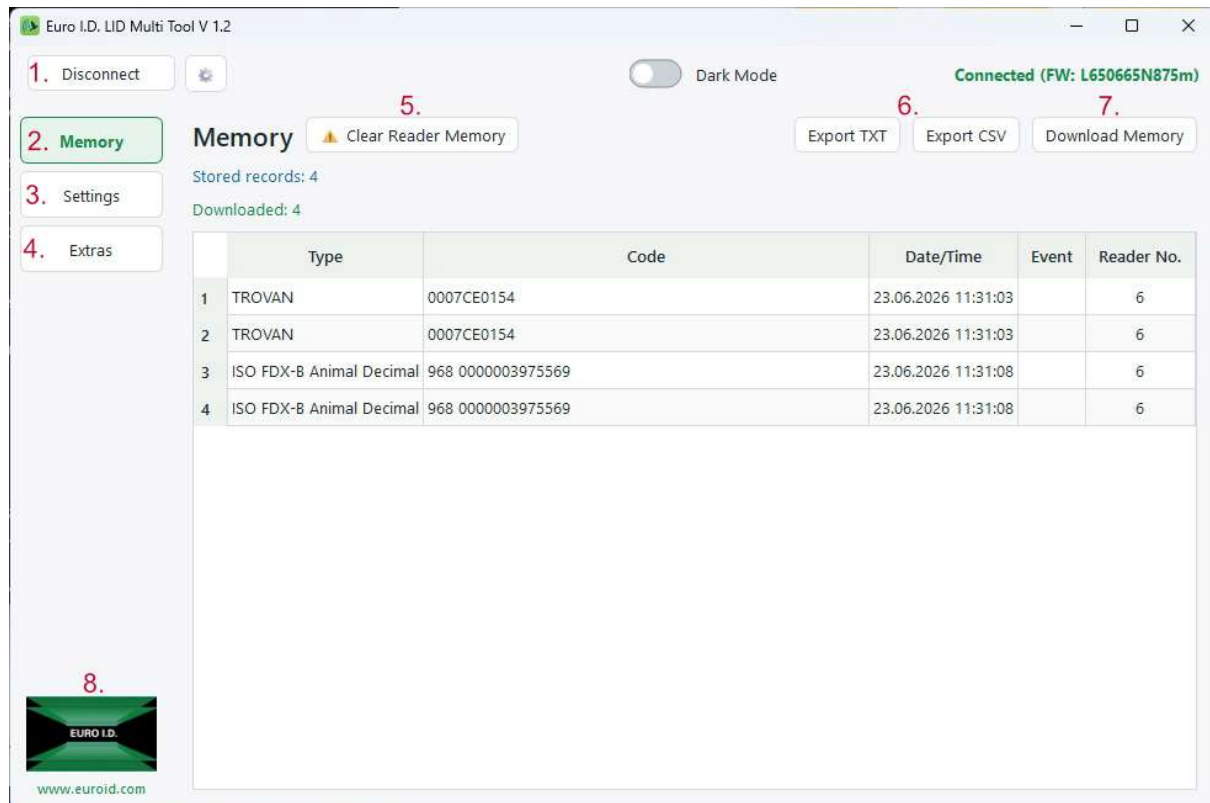
(Please do not use Windows system folders such as Program Files or Program Files (x86).)

After that you can start the EuroID Lid_Multi_Tool.exe inside this Folder with a double klick.



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7.2 Memory Window

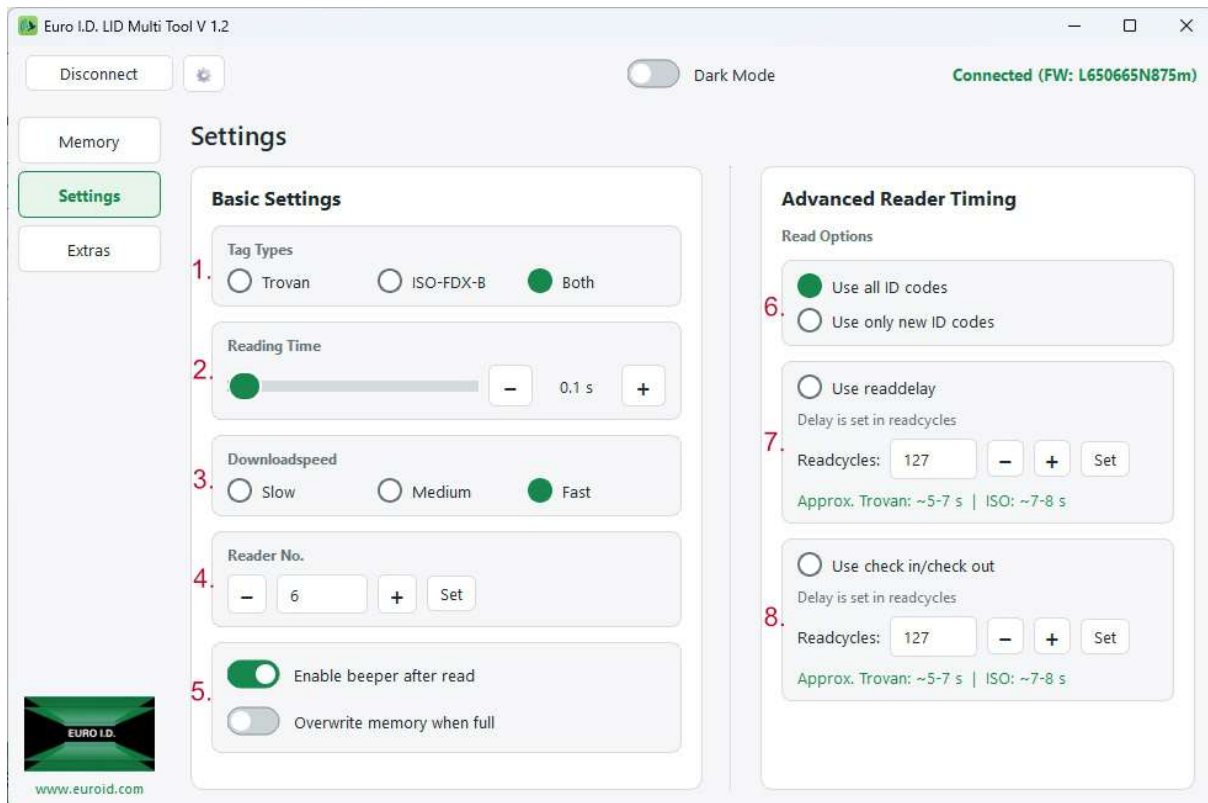


- 1- Connect/Disconnect to the reader
- 2- Memory Part
- 3- Settings Part
- 4- Extras Part
- 5- Delete the internal memory of the reader
- 6- Export the downloaded data as .txt oder .csv file.
- 7- Download the stored data out of the reader memory.



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7.3 Settings Window

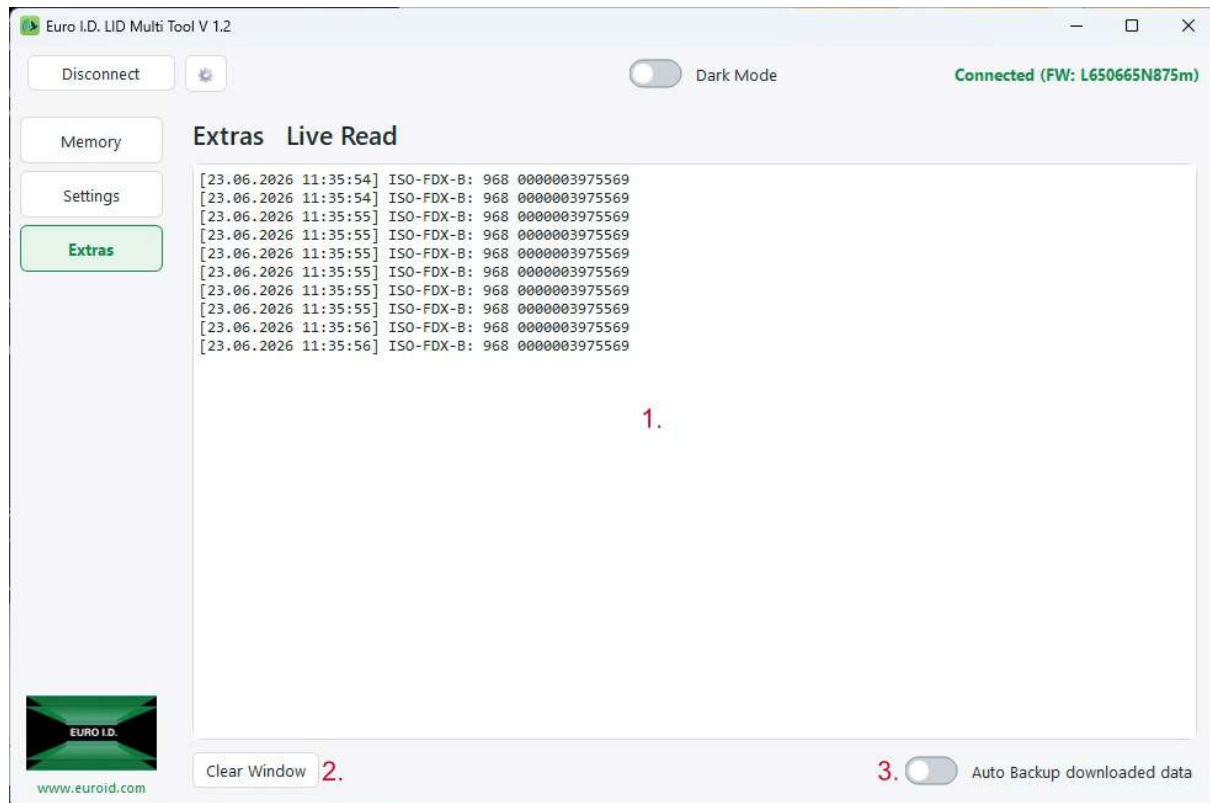


1. Selection of the transponder types used. (If you only use one of the listed types, please activate only that type to improve reading performance.)
2. After reading a transponder, the antenna is deactivated for the set time..
3. Speed at which the data is downloaded from the memory.
4. Assignment of a unique number for the reader. (*Maximum 254*)
5. Enable beeper: Activates and deactivates the reader's beeper.
Overwrite memory when full: Overwrites the oldest codes when the reader's memory is full.
6. Use all ID Codes: Selected transponder types are read and stored.
Use only new ID Codes: The transponder is read only once. Only after another transponder has been detected the previous one be read again.
7. Use readdelay: A transponder code is only stored once, unless the time specified in the input field has expired. After the time has expired, or when a different transponder code has been read, the same transponder code is stored again.
8. This is a combination of "Use only new ID" and "Use readdelay". In this mode, a new transponder code is stored. As long as the transponder remains within range, nothing happens. Even if the transponder leaves the antenna area and moves back in before the read delay time has expired, nothing happens.
When the transponder is no longer within the antenna area and the set time has expired, a 0000000000 log is stored as Check-Out. After that, the transponder can be read and stored again.



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7.4 Extras Window



1. Live Read: If a transponder is read while the reader is connected, it is displayed here with a timestamp.
2. Clears the Live Read window.
3. When Auto Backup is enabled, a backup folder is created in the program folder. All downloaded data are automatically saved there.



8. Support

If you have any problems, questions or suggestions please do not hesitate to contact us.

Phone: +49 (0)2234-990950

Mail: info@euroid.com

For online support it would be helpful if you have TeamViewer installed.



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