Trovan GR-250 High Performance Reader Communications Utility

Introduction

The GR-250 Reader is designed to read Trovan Unique[TM] RFID (radio frequency identification) transponders. Details of Reader operation can be found in the Trovan GR-250 Hand Held Reader User Manual (http://vantro.biz/GR-250%20User%20Manual.pdf). The Reader is designed to communicate with an external computer via its RS-232 interface. This interface allows the external computer to transfer transponder ID information to and from the Reader, as well as control reader operating parameters. A complete description of this interface can be found in the GR-250 Computer Interface Manual (http://vantro.biz/GR-250%20Computer%20Interface%20Manual.pdf), and is also accessible in the GR-250 Reader Utility Program by selecting "Manual".
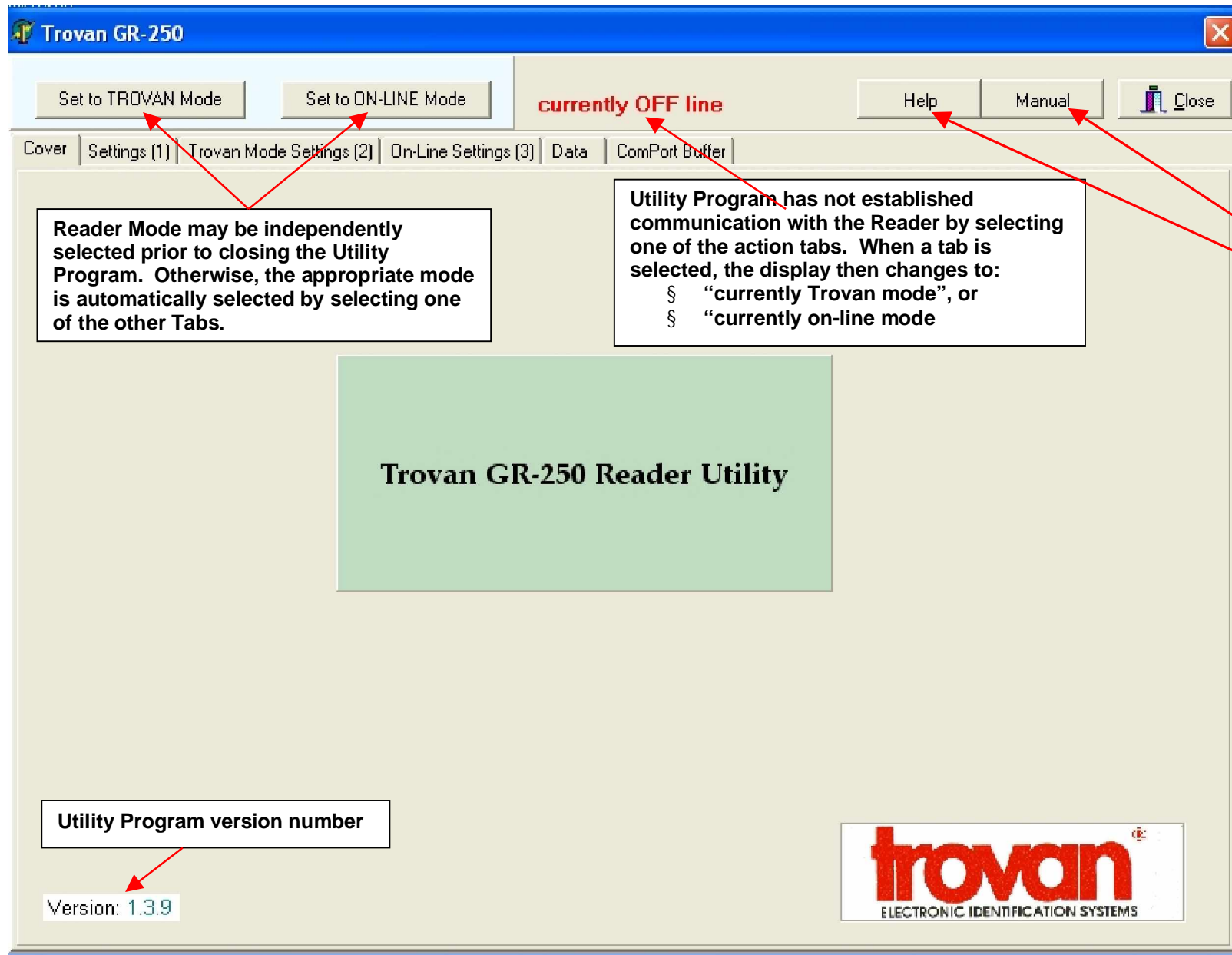
GR-250 Utility Program

The Trovan GR-250 Reader Utility Program provides a user-friendly application to facilitate communication between the GR-250 Reader and a PC by automating various commands, providing convenient data editing, and formatting and transferring data. This document is intended to provide a familiarization with the use of the Utility Program. To fully understand the Utility Program, it is recommended that the information contained in the GR-250 Computer Interface Manual be carefully reviewed.

Connectivity

The GR-250 Reader should be connected to the PC with the CAB-250 Computer Cable (PC RS-232 DB9 connector) or the CAB-250USB (PC USB connector). Alternatively, if your reader is Bluetooth enabled (model GR-250BT), the reader may be connected to the PC via wireless Bluetooth.

GR-250 Utility Program – Opening Screen

Trovan GR-250

Set to TROVAN Mode   Set to ON-LINE Mode   currently OFF line   Help   Manual   Close

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

PDF copy of GR-250 Computer Interface Manual

This PDF Document

Reader Mode may be independently selected prior to closing the Utility Program. Otherwise, the appropriate mode is automatically selected by selecting one of the other Tabs.

Utility Program has not established communication with the Reader by selecting one of the action tabs. When a tab is selected, the display then changes to:
§ **"currently Trovan mode", or**
§ **"currently on-line mode**

Trovan GR-250 Reader Utility

Utility Program version number

Version: 1.3.9

trovan
ELECTRONIC IDENTIFICATION SYSTEMS

GR-250 Utility Program – Settings (1)

Select available comport with settings: 9600, 8, None, 1, Xon/Xoff

9600

Select preferred Date Format

Select "Read" to see current Reader Communic-ation Settings

Select "Read" to check current settings. Make desired changes, & select "Set".

Select "Read" to test trigger.

Select "Read" to display Reader Date & Time. Select "Set" to set to PC's date/time

Set Date & Time into Reader.

These are default settings. Change only temporarily to test LEDs & Speaker.

Trovan GR-250

Set to TROVAN Mode   Set to ON-LINE Mode   **currently Trovan mode**   Help   Manual   Close

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Port
1

Program BAUD rate
- ○ 300
- ○ 1200
- ○ 2400
- ○ 4800
- ● 9600
- ○ 19200

Reader BAUD rate
- ○ 300
- ○ 1200
- ○ 2400
- ○ 4800
- ● 9600
- ○ 19200

Set   Read

Date separator **/**

Date Format
- ● DD/MM/YYYY
- ○ MM/DD/YYYY

Current on-line settings
Clear Memo

Read

Save Mode Setting
- ○ Save Mode ON
- ○ Save Mode OFF

Seek Mode Setting
- ○ Seek Mode ON
- ○ Seek Mode OFF

Set   Read

Display Setting
- ○ Hex Display
- ○ Decimal Display

Set   Read

Trigger Status
- ○ Trigger ON
- ○ Trigger OFF

'Live' enquiry to reader

Read

PC Date/Time

Set   Read

User defined Date/Time

Date   Time

Use 24hr clock and leading zeros where appropriate HH:MM:SS

Set

LEDs
- ● No LEDs
- ○ Red
- ○ Green
- ○ Red +Green

Tone
- ● Quiet
- ○ Key
- ○ OK
- ○ NO

Set

'Live' commands to reader

GR-250 Utility Program – Settings (1)
(Example settings)

Trovan GR-250

Set to TROVAN Mode   Set to ON-LINE Mode   **currently Trovan mode**   Help   Manual   Close

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Port
1

Program BAUD rate
- ○ 300   ○ 2400   ● 9600
- ○ 1200   ○ 4800   ○ 19200

Reader BAUD rate
- ○ 300   ○ 2400   ● 9600
- ○ 1200   ○ 4800   ○ 19200

Set   Read

Date separator /   **Date Format**   ● DD/MM/YYYY   ○ MM/DD/YYYY

Current on-line settings

RTS/CTS=>Disabled
ENQ=>Disabled
ACK/NAK=>Disabled
Scan & Store=>Disabled
Check Digit=>Disabled
No Decode Character=>Disabled
Bidirectional Commands=>Disabled
Baud Rate=>9600
Prefix=>
Suffix=>0D.
No Decode=>
AOK

Clear Memo

Read

These are the default settings in the GR-250 Reader. Do not change without consulting with the Manufacturer Vantro Systems.

Save Mode Setting
- ● Save Mode ON   ○ Save Mode OFF   Set

Seek Mode Setting
- ○ Seek Mode ON   ● Seek Mode OFF   Read

Display Setting
- ● Hex Display   ○ Decimal Display   Set   Read

Trigger Status
- ○ Trigger ON   ● Trigger OFF   Read

'Live' enquiry to reader

15/12/2009 Tuesday
PC Date/Time
14:23:02

Set   Read

User defined Date/Time
Date   Time   Use 24hr clock and leading zeros where appropriate HH:MM:SS

Set

LEDs
- ● No LEDs   ○ Green
- ○ Red   ○ Red +Green

Tone
- ● Quiet   ○ OK
- ○ Key   ○ NO

Set

'Live' commands to reader

GR-250 Utility Program – Trovan Mode Settings (2)

By selecting "Read" with transponder in Reader field, ID # will be displayed. If not in field, "No Read" is displayed.

Read current settings, or set new ones.

Clears all contents of Lot memory in about 30 seconds

Type in information & select "Set". Tests the Reader LCD.

Select "Check" to display the Reader Software Version.

Trovan GR-250

| Set to TROVAN Mode | Set to ON-LINE Mode | currently Trovan mode | Help | Manual | Close |

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Read transponder
Read
To clipboard | Paste Clipboard

Current KeyLot No [ ] 01...FE
Set
Read

Current Lot No [ ] 01...FE
Set
Read

Clear Lots
Clear

Free Memory
Check

Top line caption
[ ]
Set

Bottom line caption
[ ]
Set

Software Version
Check

All functions on button coloured background relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' mode.

Dump All Memory | Dump Lot Memory [ ] 01...FE

To clipboard
Clear Memo

All ID #'s stored in all Lots may be displayed, or just those in a selected Lot.

These Data may then be transferred to the PC Clipboard.

Check available free Lot memory. After clearing, the amount is 3072.

After transponder # is read and the ID displayed, select "To Clipboard" to place on PC clipboard. Subsequently, select "Paste Clipboard" to place the number on the Memo above.

Trovan GR-250

| Set to TROVAN Mode | Set to ON-LINE Mode | currently Trovan mode | Help | Manual | Close |

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Read transponder   Read

`0000061AC8`   To clipboard | Paste Clipboard

Dump All Memory   Dump Lot Memory   01...FE

Current KeyLot No   **02**   01...FE   Set
                                          Read

Current Lot No   **01**   01...FE   Set
                                       Read

Clear Lots   Clear

Free Memory   **3051 free**   Check

Top line caption   Set

Bottom line caption   Set

Software Version   **GR250V16**   Check

To clipboard

Clear Memo

All functions on button coloured background relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' mode.

Trovan GR-250

Set to TROVAN Mode | Set to ON-LINE Mode | **currently Trovan mode** | Help | Manual | **Close**

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Read transponder | Read
`0000061AC8` | To clipboard | Paste Clipboard

Dump All Memory | Dump Lot Memory | 01...FE

`0000061AC8`

Current KeyLot No `02` 01...FE | Set | Read

Current Lot No `01` 01...FE | Set | Read

Clear Lots | Clear

Free Memory **3051 free** | Check

Top line caption | Set
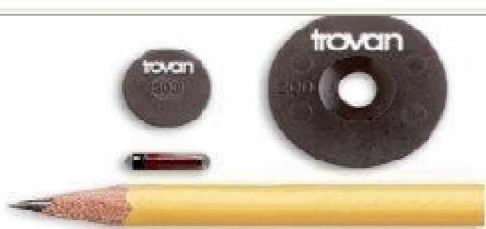
Bottom line caption | Set

Software Version **GR250V16** | Check

All functions on button coloured background relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' mode.

To clipboard

Clear Memo

Trovan GR-250

| Set to TROVAN Mode | Set to ON-LINE Mode | currently Trovan mode | Help | Manual | Close |

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Read transponder [Read]

[To clipboard] [Paste Clipboard]

[Dump All Memory] [Dump Lot Memory] [ ] 01...FE

Current KeyLot No **02** 01...FE   [Set] [Read]

Current Lot No **01** 01...FE   [Set] [Read]

Clear Lots   [Clear]

Free Memory   **3051 free**   [Check]

Top line caption   [Set]

Bottom line caption   [Set]

Software Version   **GR250V16**   [Check]

All functions on button coloured background relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' mode.

```
01 000015F87A 13/12/2009  Sunday 18:05:28:68
01 0001DAD0F3 13/12/2009  Sunday 18:09:12:55
01 000015C726 14/12/2009  Monday 10:56:19:11
01 000024492B 14/12/2009  Monday 10:56:34:18
01 0000251E2E 14/12/2009  Monday 10:56:39:83
01 000015BD29 14/12/2009  Monday 10:56:46:38
01 00001F4B27 14/12/2009  Monday 10:56:52:43
01 0000061617 14/12/2009  Monday 10:56:58:02
01 0000625D1D 14/12/2009  Monday 10:57:03:66
01 0000061AC8 14/12/2009  Monday 10:57:11:57
01 0000AF57E6 14/12/2009  Monday 11:40:08:92
01 000177303 14/12/2009  Monday 11:40:26:51
01 00002538F2 14/12/2009  Monday 11:41:28:88
01 000070D124 14/12/2009  Monday 11:43:03:57
01 00062F03F6 14/12/2009  Monday 11:44:06:12
01 00012E8AE7 14/12/2009  Monday 11:44:11:87
01 00002215C6 14/12/2009  Monday 11:44:21:15
01 00012E7DA0 14/12/2009  Monday 11:44:30:67
01 0001360ED5 14/12/2009  Monday 11:44:39:82
01 000025A032 14/12/2009  Monday 11:44:50:43
Download completed
```

[To clipboard]

[Clear Memo]

GR-250 Utility Program – Trovan Mode Settings (2)
(Example 4 – After "Clear Lots" & "Check" Free Memory)

GR-250 Utility Program – On-line Settings (3)

Trovan GR-250

| Set to TROVAN Mode | Set to ON-LINE Mode | **currently on-line mode** | Help | Manual | 🚪 Close |

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

on-line readings

Clear Memo   Import into Database

Download Store

Program designed and devised by MID FingerPrint
(www.midfingerprint.com) on behalf of TROVAN (www.eidltd.com)

trovan
ELECTRONIC IDENTIFICATION SYSTEMS

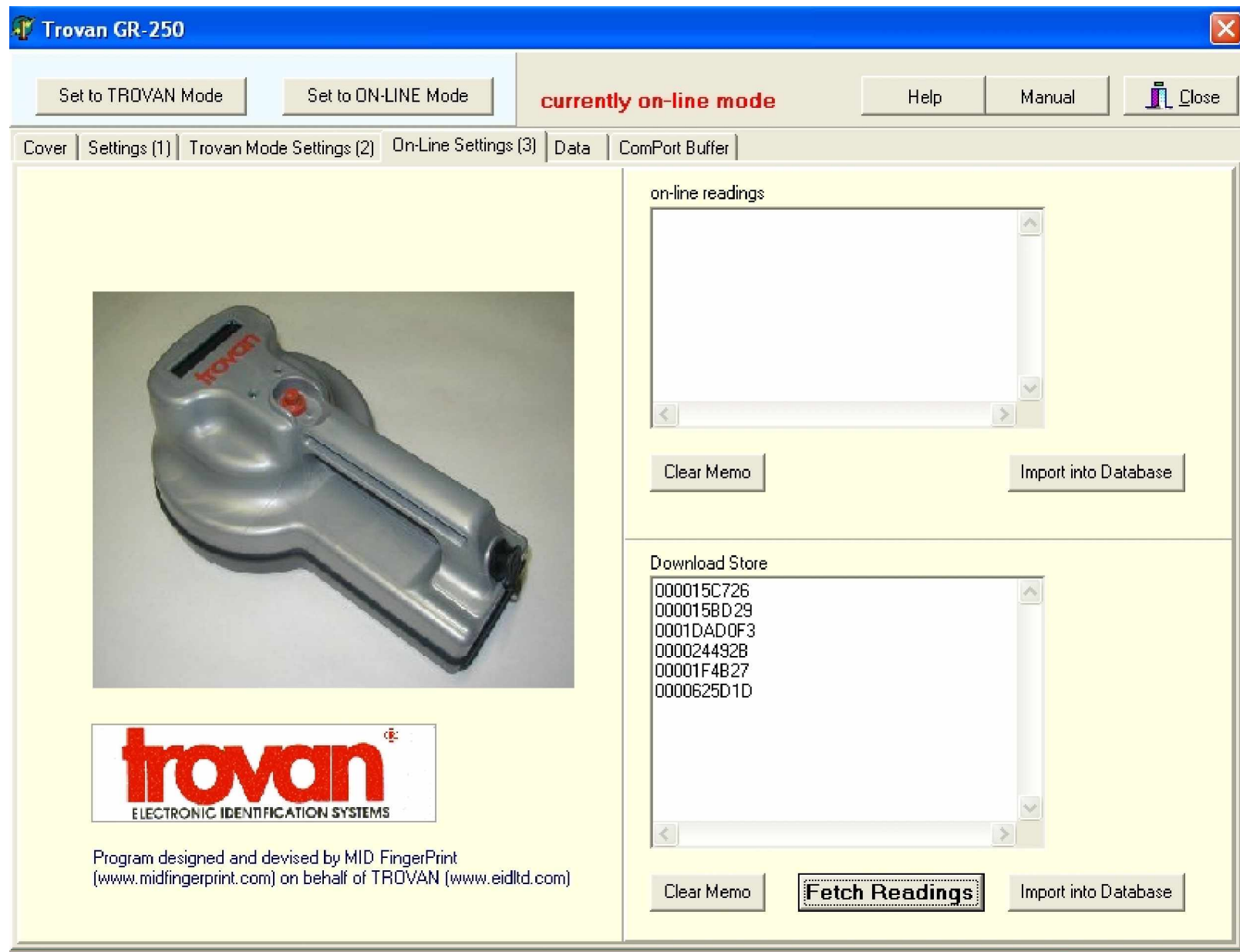Clear Memo   **Fetch Readings**   Import into Database

ID #'s of Transponders read while Reader is in the On-line Mode will appear in the upper box, unless the "Fetch Readings" is selected, and then the #'s will appear in the lower box. Readings in either box may be imported into the table in the "Data" tab by selecting "Import into Database".

GR-250 Utility Program – On-line Settings (3)
(Example 1)
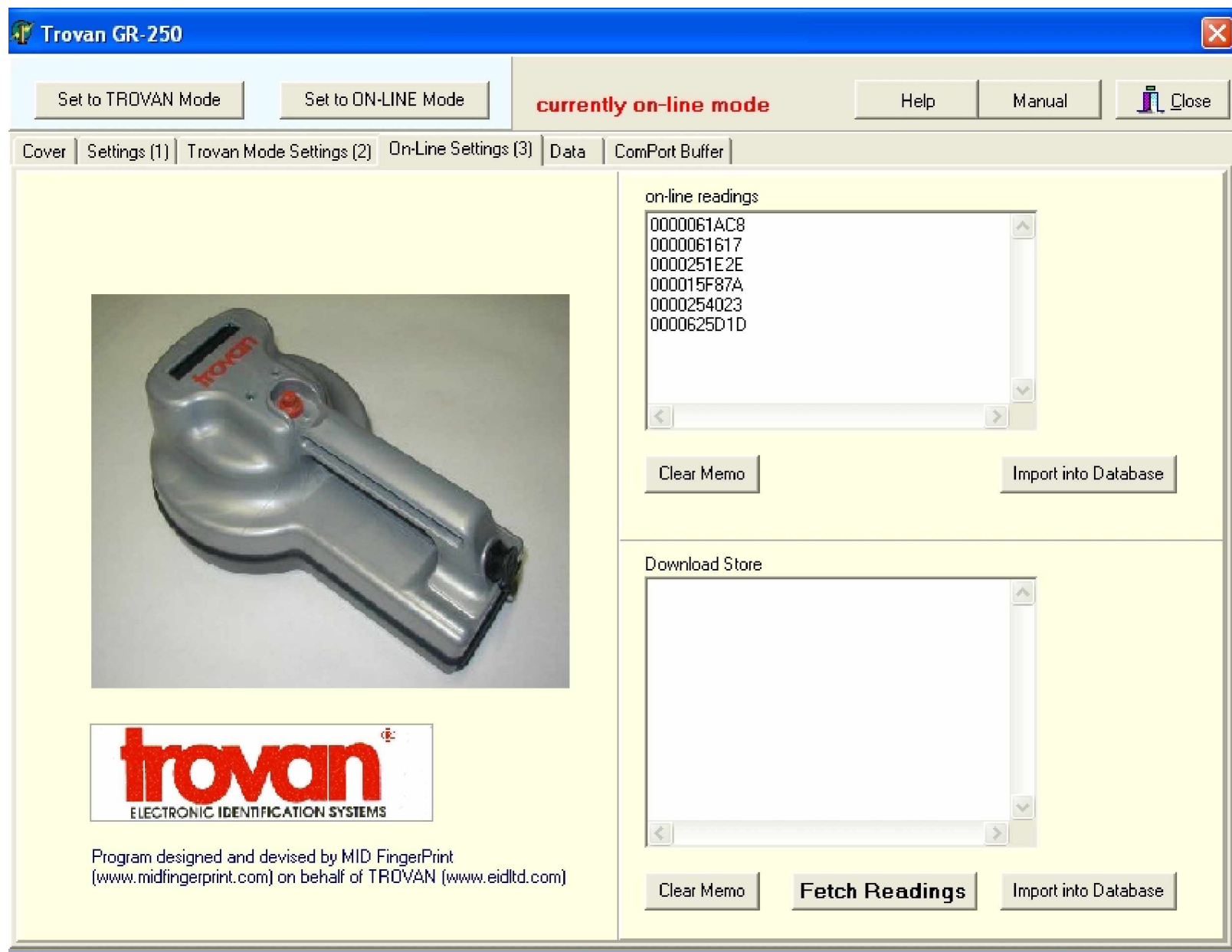
GR-250 Utility Program – On-line Settings (3)
(Example 2 – Reading Transponders after selecting "Fetch Readings")

GR-250 Utility Program – Data

Control Panel for movement & storage of data between the Table, the PC, and the Utility's 6 Databases. Database is CSV/Comma delimited.

Provides for editing the selected record in the table below.

Places data from a specified Lot, or from all Lots in Reader memory into the Table.

Place data from the Table below to specified Lot, or, if not specified, to the designated "Current Lot" in Reader memory.

Trovan GR-250

Set to TROVAN Mode | Set to ON-LINE Mode | **currently Trovan mode** | Help | Manual | Close

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

Tag ID | Lot No | Alpha | Bravo | Charly | Date | Time

☐ Flagged

Comment

Import CSV File

CSV Separator
○ Semicolon ● Comma
○ Colon ○ Tab

Cancel ALL Flags

Select Database | 1 | User has choice of six databases

Export as
Export Table | ● CSV ○ HTML ○ SYLK

Empty Table | Edit Fieldnames

Leave blank for all Lots | 01...FE | Download to Database | Download table to Reader | ● All ○ Flagged only | ○ Single record | Leave blank for existing Lot No | 01...FE

tag | Lot | Flag | Alpha | Bravo | Charly | Date_ | T

Data may be entered into this table from several sources:
- § Downloaded from Reader Lot memory,
- § By selecting one of the six databases above that had previously stored data,
- § Imported from a *.csv file in the PC,
- § Imported from the Memos in the "On-Line Settings (3)" tab, or
- § Directly by selecting the field and typing in the information.

GR-250 Utility Program – Data
(Example 1 – Record in table being edited)

Trovan GR-250

| Set to TROVAN Mode | Set to ON-LINE Mode | **currently Trovan mode** | Help | Manual | 🗋 Close |

Cover | Settings (1) | Trovan Mode Settings (2) | On-Line Settings (3) | Data | ComPort Buffer

| Tag ID | Lot No | Alpha | Bravo | Charly | Date | Time |
| 0000625D1D | 01 | | | | 15/12/2009 ▼ | 15:49:52 |

☐ Flagged   **Download completed (12)**

Comment
THIS SELECTED RECORD IS BEING EDITED

| Import CSV File |
| Cancel ALL Flags |
| Select Database |
| Export Table |
| Empty Table |

CSV Separator
◯ Semicolon ◯ Comma
◯ Colon   ◯ Tab

1 ▲▼ User has choice of six databases

Export as
◉ CSV ◯ HTML ◯ SYLK

| Edit Fieldnames |

Leave blank for all Lots [   ] 01...FE | Download to Database | Download table to Reader | ◉ All / Flagged only   ◯ Single record | Leave blank for existing Lot No [   ] 01...FE

	Tag ID	Lot No	Flagged	Alpha	Bravo	Charly	Date	Time	Comment
	0000061AC8	01					15/12/2009	15:49:29	
	0000061617	01					15/12/2009	15:49:35	
	0000251E2E	01					15/12/2009	15:49:39	
	000015F87A	01					15/12/2009	15:49:43	
	0000254023	01					15/12/2009	15:49:48	
▶	0000625D1D	01					15/12/2009	15:49:52	THIS SELECTED RECORD IS BEING EDITED
	000015C726	01					15/12/2009	15:54:24	
	000015BD29	01					15/12/2009	15:54:27	
	0001DAD0F:	01					15/12/2009	15:54:31	
	000024492B	01					15/12/2009	15:54:36	
	00001F4B27	01					15/12/2009	15:54:39	

Saved file in PC opened with CSVed Editor program
http://csved.sjfrancke.nl/index.html

CAUTION! CSV files opened & edited using Microsoft Excel cannot be imported back into the GR-250 Utility Program. Use the CSVed Editor program instead.