Vantro Systems

Trovan GR-250 High Performance Reader Communications Utility

Introduction

The GR-251 MultiReader is designed to read Trovan UniqueTM RFID (radio frequency identification) transponders, and all the other animal implantable types (Ex. ISO FDX-B, Destron/ FECAVA[& CLONES], and AVID encrypted). This reader will not read ISO HDX types. Details of Reader operation can be found in the Trovan GR-251 High Performance MultiReader User Manual (<u>http://vantro.biz/GR-251%20User%20Manual.pdf</u>). 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-251 Computer Interface Manual (<u>http://vantro.biz/GR-251%20Computer%20Interface%20Manual.pdf</u>), and is also accessible in the GR-251 Reader Utility Program by selecting "Manual".

GR-251 Utility Program

The Trovan GR-251 Reader Utility Program provides a user-friendly application to facilitate communication between the GR-251 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-251 Computer Interface Manual be carefully reviewed.

Connectivity

The GR-251 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-251BT), the reader may be connected to the PC via wireless Bluetooth.

GR-251 Utility Program – Opening Screen



GR-251 Utility Program – Settings (1)

	🕸 Trovan GR-251		
Select available comport	Set to TROVAN Mode Set to ON-LINE Mode currently	y Trovan mode Help Manual Close	Select
with settings: 9600, 8, None, 1, Xon/Xoff	Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data (Port Serial Ports Test	ComPort Buffer	"Read" to check current settings.
9600 <	Program BAUD rate C 300 C 2400 € 9600 C 1200 C 4800 C 19200 Reader PAUD rate	C Seek Mode ON C Seek Mode OFF Display Setting C Hex Display C Decimal Display Read	Make desired changes, & select "Set".
A	C 300 C 2400 © 9600 Set C 1200 C 4800 C 19200 Read	Trigger Status C Trigger ON C Trigger OFF	Select "Read" to test trigger.
Select preferred Date Format	Date Separator	"Live' enquiry to reader	Select "Read" to display Reader Date &
Select "Read" to see current	Clear Memo	Read User defined Date/Time Set Date Time Use 24hr clock and leading zeros where appropriate	Set Date & Time into Reader.
Reader Communic- ation Settings	Read	HH:MM:SS LEDs No LEDs Green Red Red CRed +Green Set Cone Cone Cone Cone Cone Cone Cone Cone	These are default settings. Change only temporarily to test LEDs & Speaker.

GR-251 Utility Program – Settings (1) (Example settings)

	🛙 Trovan GR-251	X				
	Set to TROVAN Mode Set to ON-LINE Mode Currently	Trovan mode Help Manual <u>I</u> Close				
	Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data C	ComPort Buffer				
	Port Serial Ports Test	Save Mode Setting Set				
	Program BAUD rate	Seek Mode Setting Read				
	○ 300 ○ 2400 ● 9600 ○ 1200 ○ 4800 ○ 19200	Display Setting Set				
	Reader BAUD rate Set C 300 C 2400 © 9600 C 1200 C 4800 C 19200 Read	Trigger Status C Trigger ON © Trigger OFF				
	Date separator	Live' enquiry to reader				
These are	Current on-line settings RTS/CTS=>Disabled Clear Memo	PC Date/Time Read				
settings in the GR-251 Reader. Do not change without	ENQ=>Disabled ACK/NAK=>Disabled Scan & Store=>Disabled Check Digit=>Disabled No Decode Character=>Disabled Bidirectional Commands=>Disabled Baud Rate=>9600	User defined Date/Time Set Date Time Use 24hr clock and leading zeros where appropriate HH:MM:SS				
with the Manufacturer Vantro Systems.	Prefix=> Suffix=>0D. No Decode=> AOK	LEDs No LEDs Red C Red C Red + Green Set Set				
	Read	Vulet OK Key NO Live' commands to reader				

GR-251 Utility Program – Trovan Mode Settings (2)

By selecting "Read" with	🕼 Trovan GR-251									
transpond er in Reader	Set to TROVAN Mode Set to ON	I-LINE Mode currer	ntly Trovan mode	Help Manual						
field, ID # will be	Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data ComPort Buffer									
displayed. If not in field, "No Read" is displayed.	Read transponder	Read	Dump All Memory	Dump Lot Memory	01FE					
Read current settings, or set new	Current KeyLot No	Set Read								
Clears all contents	Current Lot No	Set Read				All ID #'s stored in				
memory in about 30 seconds	Clear Lots	Clear				all Lots may be displayed, or just				
	Free Memory					those in a				
Type in information & select "Sot"	Top line caption	Set				Lot.				
Tests the Reader LCD.	Bottom line caption	Set		trovan	>	may then be transferred				
Select "Check" to display	Software Version	Check			To clipboard	Clipboard.				
the Reader Software	All functions on button coloured relate to Trovan' mode only, an activated/deactivated in the 'Tr	background d are ovan' mode			Clear Memo					
Version.	Check available free Lot memory. After clearing, the amount is 8128.	After transponder # i Subsequently, select	s read and the ID display t "Paste Clipboard" to pl	/ed, select "To Clipboard" ace the number on the Me	' to place on PC o mo above.	lipboard.				

GR-251 Utility Program – Trovan Mode Settings (2) (Example 1 – After Selecting "Read")

	🐨 Trovan GR-251 🔀
	Set to TROVAN Mode Set to ON-LINE Mode currently Trovan mode Help Manual I Close Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data ComPort Buffer
Reader Software Versions GR251V17 and lower will only read the Trovan Unique type transponder.	Read transponder Read D00672A121 Down Distribution
Reader Software Versions GR251V18 and higher will read all	Current KeyLot No 02 01FE Set Read
fransponders. § <u>Trovan</u> : displays in 10 Hexadecimal	Current Lot No 01 01FE Set Read
digits. § <u>AVID</u> : displays	Clear Lots Clear
digits (extra leading zero)	Free Memory 8127 free Check
§ <u>ISO FDX-B</u> : displays in 10 Hexadecimal	Top line caption Set
digits (Country/Mfgr code excluded)	Bottom line caption Set
	Software Version GR251V17 Check To clipboard
	All functions on button coloured background relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' mode.

GR-251 Utility Program – Trovan Mode Settings (2) (Example 2 – After Selecting "To Clipboard" & "Paste Clipboard")

🛙 Trovan GR-251				×
Set to TROVAN Mode Set to 0	N-LINE Mode Curre	ently Trovan mode	Help Manual	<u>I</u> <u>C</u> lose
Cover Settings (1) Trovan Mode Settings (2	0 On-Line Settings (3) Data	ComPort Buffer		
Read transponder	Read	Dump All Memory	Dump Lot Memory	01FE
Current KeyLot No 02 01FE	Set Read			
Current Lot No 01 01FE	Set Read			
Clear Lots	Clear			
Free Memory 8127 free	Check			
Top line caption	Set	_		
Bottom line caption	Set	<	tracto	>
Software Version GR251V17	Check	E State		To clipboard
All functions on button coloured relate to Trovan' mode only, a activated/deactivated in the 'T	d background nd are 'rovan' mode			Clear Memo

GR-251 Utility Program – Trovan Mode Settings (2) (Example 3 – After "Dump All Memory")

Trovan GR-251									
Set to TROVAN Mode Set to ON-LINE Mo		ntly Trovan mode	Help Manual	<u><u>I</u> <u>C</u>lose</u>					
Cover Settings (1) Frovan Mode Settings (2) Un-Line Read transponder F 000672A121 To clipboard	Settings (3) Data Read	Dump All Memory	Dump Lot Memory	01FE					
Current KeyLot No 02 01FE	Set Read	Lot.TransponderTypeDate 01 000672A121 Trovan 07/04/20 01 0006728905 Trovan 07/04/20 01 4074371062 FECAVA 07/04/2 01 4816317939 FECAVA 07/04/2	DayTime DayTime 110 14:17:07:39 110 15:16:12:20 2010 15:16:22:04 2010 15:16:27:90	~					
Current Lot No 01 01FE	Set Read	01 48150/234F FECAVA 07/04/2 01 7F7E481A0A FECAVA 07/04/2 01 0001342823 AVID 07/04/2011 01 0005324048 AVID 07/04/2011 01 981020000027521 ISO FDX-B 01 985120032157653 ISO FDX-B	2010 15:16:35:36 2010 15:17:00:12 0 15:17:06:17 0 15:17:12:99 Anm 07/04/2010 15:17:21:58 Anm 07/04/2010 15:17:25:88						
Clear Lots	Clear	01 985121001692274 ISO FDX-B 01 968000001257531 ISO FDX-B 01 941000011384770 ISO FDX-B Download completed	Anm 07/04/2010 15:17:31:21 Anm 07/04/2010 15:17:35:52 Anm 07/04/2010 15:18:39:40						
Free Memory 8127 free	Check								
Top line caption	Set								
Bottom line caption	Set	<	trovan	>					
Software Version GR251V17	Check	towan		To clipboard					
All functions on button coloured backgro relate to Trovan' mode only, and are activated/deactivated in the 'Trovan' m	ound			Clear Memo					

GR-251 Utility Program – On-line Settings (3)

🕅 Trovan GR-251			×
Set to TROVAN Mode Set to ON-LINE Mode	currently on-line mode	Help Manual j	
Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3)	Data ComPort Buffer		
	on-line readings		
	Clear Memo	Import into Datab	Jase
	Download Store		
Program designed and devised by MID FingerPrint (www.midfingerprint.com) on behalf of TROVAN (www.eidltd.or	com) Clear Memo Fetcl	h Readings	ase

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". <u>Note that:</u> § <u>Trovan:</u>

- displays in 10 Hexadecimal digits.
 <u>AVID</u>: displays
- AVID: displays
 in 10 Decimal
 digits
 (including an
 extra leading
 zero)
 <u>ISO FDX-B</u>:
 - displays in 10 Hexadecimal digits (Country/Mfgr code excluded)

GR-251 Utility Program – On-line Settings (3) (Example 1)

🕼 Trovan GR-251	
Set to TROVAN Mode Set to ON-LINE Mode current	y on-line mode Help Manual 👖 Close
Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data	ComPort Buffer
	on-line readings 04A8183381 1C2C434C72 0000133038 0001342823 481507234F 0006CA36BE 0006728905 Clear Memo Import into Database
	Download Store
FIGURE AND	Clear Memo Fetch Readings Import into Database

GR-251 Utility Program – On-line Settings (3) (Example 2 – Reading Transponders after selecting "Fetch Readings")



GR-251 Utility Program – Data

	🛿 Trovan GR-251									
	Set to TROVAN Mode Set to ON-LINE Mode Currently Trovan mode Help Manual I Close	Control								
	Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data ComPort Buffer									
Provides for editing the selected	Tag ID Lot No Alpha Bravo Charly Date Time Flagged Type C Code Import CSV File CSV Separator K K K K K Comma	storage of data between the Table, the PC, and the Utility's 6								
record in the table below.	Comment Select Database 1 ↓ User has choice of six databases Export Table Export as Empty Table Edit Fieldnames	Databases. Database is CSV/Comma delimited.								
Places data from a specified	Leave blank O1FE Download to Database Download table to Reader Radged only Single record for existing Lot No 01FE	Place data from the Table below to								
from all Lots in Reader memory into the Table.	L_code Tag ID Type Lot No Plagged Alpha Bravo Lharly A	specified Lot, or, if not specified, to the designated "Current Lot" in Reader memory.								
	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-251 Utility Program – Data (Example 1 – Record in table being edited)

Trov	🕅 Trovan GR-251										×
Set to TROVAN Mode Set to ON-LINE Mode currently Trovan mode Help Manual I Close											
Cover Se	Cover Settings (1) Trovan Mode Settings (2) On-Line Settings (3) Data ComPort Buffer										
Tag ID 481507234	4F 01	Alpha		Brave			C	Charly		Date 07/04/2010 -	Time 15:16:35
Flagge	d Downlo	ad completed	(15)	Type	FECAV		C Code		Import CSV File	CSV Separator C Semicolon C	Comma
Comment									Cancel ALL Flags	C Colon C	Tab
THIS SELE	CTED RECORD	IS BEING EDITEI	0				1		Select Database	1 User has c six databas	hoice of ses
									Export Table	Export as CSV C HT	ML 🕤 SYLK
<							>		Empty Table	E dit Fieldn	iames
Leave blar for all Lots	^{nk} 01F	E Download to I	Database	Downlo	ad table	to Reader		l agged only	C Single record	Leave blank for existing Lot No	01FE
C_Code	Tag ID	Туре	Lot No F	lagged Alpha	a Bravo	Charly Dat	te	Time	Comment		~
0	0006724121	Trovan	01			07/	/04/2010	14:17:07			
0	0006728905	Trovan	01			07/	/04/2010	15:16:12			
0	4074371062	FECAVA	01			07/	/04/2010	15:16:22			
0	4816317939	FECAVA	01			07/	/04/2010	15:16:27			
Ιo	481507234F	FECAVA	01			07/	/04/2010	15:16:35	THIS SELECTE	ED RECORD IS BEI	NG EDITED
0	7F7E481A0A	FECAVA	01			07/	/04/2010	15:17:00			
0	0001342823	AVID	01			07/	/04/2010	15:17:06			
0	0005324048	AVID	01			07/	/04/2010	15:17:12			
981	020000027521	ISO FDX-B Anm	01			07/	/04/2010	15:17:21			
985	120032157653	ISO FDX-B Anm	01			07/	/04/2010	15:17:25			
985	121001692274	ISO FDX-B Anm	01			07/	/04/2010	15:17:31			
968	000001257531	ISO FDX-B Anm	01			07/	/04/2010	15:17:35			
941	000011384770	ISO FDX-B Anm	01			07/	/04/2010	15:18:39			
0	0006CA36BE	Trovan	01			07/	/04/2010	15:46:48			*
<											>

Saved file in PC opened with CSVed Editor program

http://csved.sjfrancke.nl/index.html

© CSVed G:\Waynes Documents\GR-251\UTILITY\EXAMPLE.csv												
File Edit V	File Edit View Tools Help											
1 🗅 🖻	🗋 🖻 🕶 🔚 🗔 🕶 😰 📝 🐁 📝 🦻 🗛 🎘 🎘 🏶 🧱 🖻 🗊 🧼 🏢 🛂 🕼 15 x 11 [1][1]											
1	2	3	4	5	6	7	8	9	10	11	t	to <
C_Code	tag	Туре	Lot	Flag	Alpha	Bravo	Charly	Date_	Time_	Comment		*
0	000672A121	Trovan	01					07/04/2010	14:17:07			1
0	0006728905	Trovan	01					07/04/2010	15:16:12			2
0	4074371062	FECAVA	01					07/04/2010	15:16:22			3 4
0	4816317939	FECAVA	01					07/04/2010	15:16:27			5
0	481507234F	FECAVA	01					07/04/2010	15:16:35			7
0	7F7E481A0A	FECAVA	01					07/04/2010	15:17:00			8
0	0001342823	AVID	01					07/04/2010	15:17:06			10
0	0005324048	AVID	01					07/04/2010	15:17:12			11
981	020000027521	ISO FDX-B Anm	01					07/04/2010	15:17:21			
985	120032157653	ISO FDX-B Anm	01					07/04/2010	15:17:25			
985	121001692274	ISO FDX-B Anm	01					07/04/2010	15:17:31			
968	000001257531	ISO FDX-B Anm	01					07/04/2010	15:17:35			
941	000011384770	ISO FDX-B Anm	01					07/04/2010	15:18:39			
0	0006CA36BE	Trovan	01					07/04/2010	15:46:48			o to Lir
												100
0.01/	Lucratan 4		1	000								
CSVec	version 1.4	4.9 Sam Franc	cke 2	009								
brows	e comma,	portable										

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