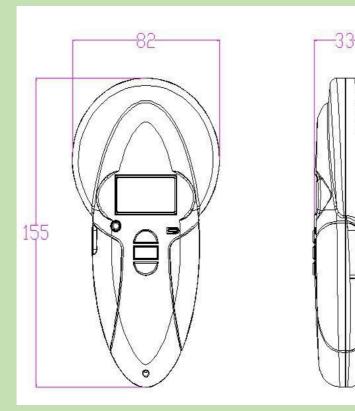


# **Table of contents**

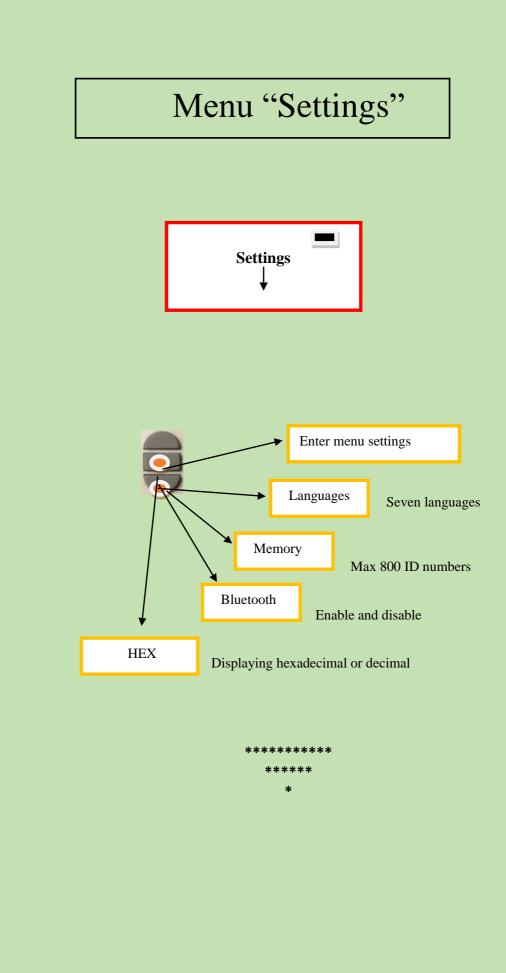
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Tools for development	
System "Woosit"	

# **Reader characteristics**



and the second	
Frequency	134.2kHz Read and write ISO 14223
Protocol	ISO11784/5 FDX-A, FDX-B, EM4102, HDX
Reading range	Up to 13 cm $(12mm \times 2mm, glass tag)$ FDXB
	10cm (12mm x 2mm glasstag FDXA)
	18/20cm ear tag FDXB (depends of the provider)
	15/18cm ear tag HDX (depends of the provider)
Display	$128 \times 64$ , black and white, OLED
Keys	4 buttons
Indication	Battery charge control and Bluetooth . Buzzer
USB port	USB virtual comport, bluetooth virtual com.port
Power supply	Lithium battery, 1500mAh, 3.7V
Dimension	$155 \text{mm} (\text{L}) \times 82(\text{W}) \times 33(\text{H})$
Net weight	155g
Charging mode	Mini USB
Accessories	Mini USB cable, Product instructions. Battery.
Compliance certifications	FCC, CE certification
Memory	Up to 800 ID numbers

# The V8BT is delivered with English language configured. To change the language see chapter hereunder « Menu Language »



# Bluetooth V8BT reader

All readers are delivered with integrated Bluetooth technology. The Bluetooth function consumes energy. It is therefore recommended to activate this function only for the time necessary for its use. To stop Bluetooth communication, simply select the "Bluetooth" menu and disable the function. Communication via Bluetooth is limited to around 10/15 meters and depends on the environment of your

PC. To enable Bluetooth on your PC, please consult your computer user manual. Don't forget to disable the security of Bluetooth on your PC because the V8BT don't ask a security code. If your PC need a code, enter 1234.

# Data transmission by Bluetooth or via the USB cable

To be able to transmit the tag numbers read or the numbers recorded in the memory (maximum 200), via Bluetooth or using the USB cable, the user needs to have installed the appropriate driver\* on his PC. This driver can be downloaded free of charge from :

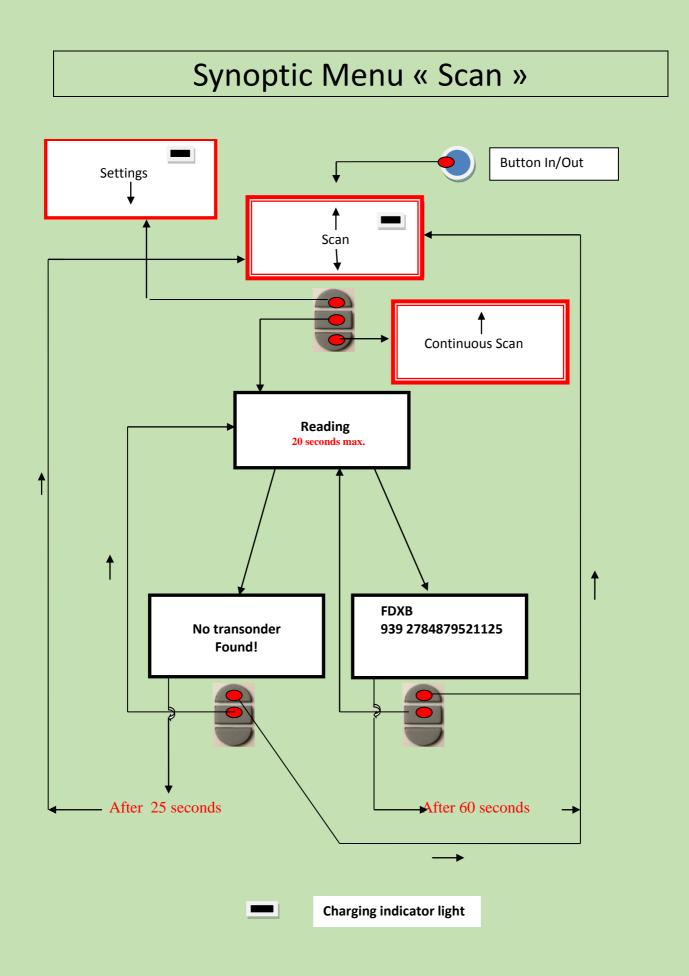
## http://download.realtrace.com/RTDriver.zip

Once the driver is installed on your PC you will need to have application software to view and potentially record the data sent by the reader.

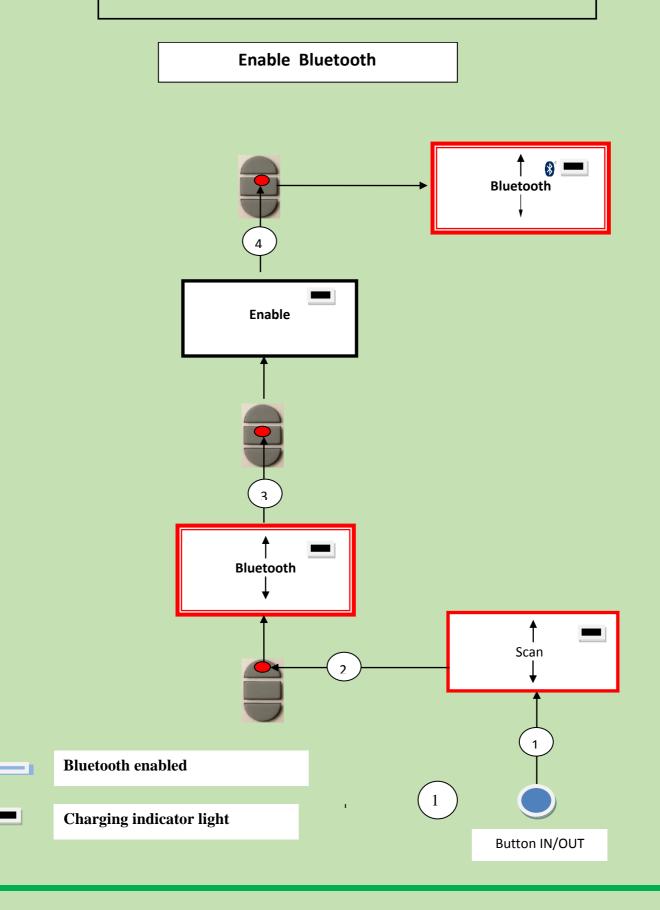
You can use Hyperterminal if your operating system is XP or Realtrace Terminal with XP or Windows 7/8/10.

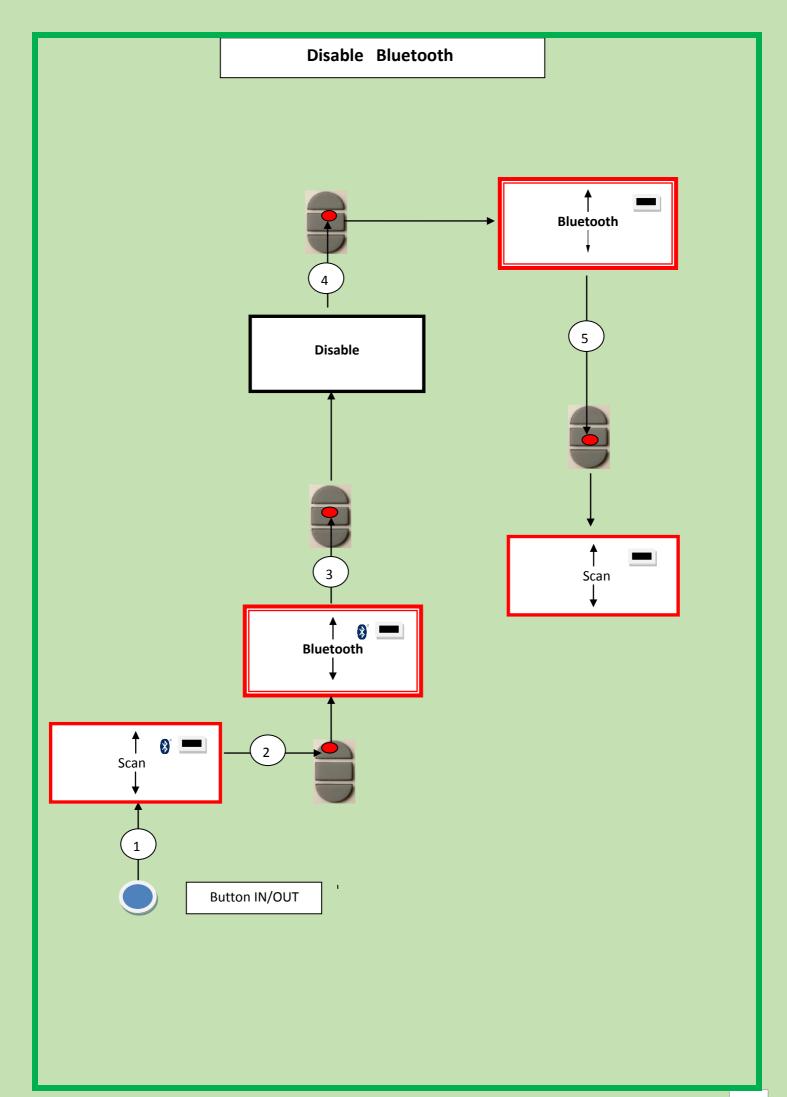
With a mobil phone you can use the V8BT after installing "PetScan" from PlayStore or AppStore.

\* A driver is a program enabling an operating system, in this case Windows XP or Windows 7/8/10 on a PC, to recognise a <u>hardware peripheral</u> and use it.

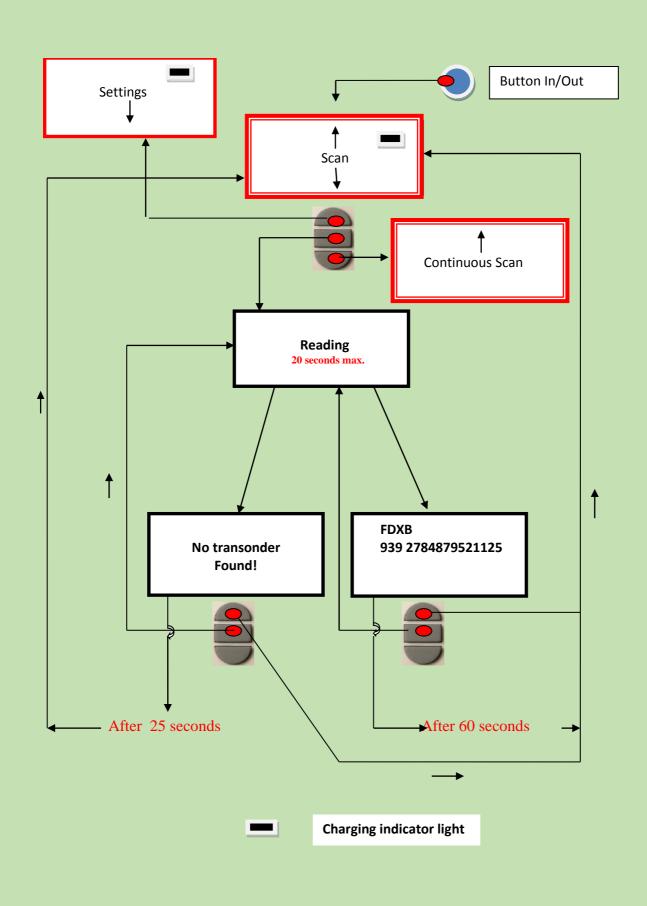


# Synoptics Menu "Bluetooth "





# Synoptic Menu « Scan »



# **Using the V8BT Memory**

The V8BT reader has a memory enabling it to store 800 identifiers (tag numbers). This function must be activated by the user if he wishes to use it.

# Storage of numbers read by the V8BT reader

The V8BT allows the user to store the numbers of the tags read in order to transfer them subsequently to a PC using the USB cable included with the reader or with Bluetooth.

To use this function, you must first activate the "Memory" function (see block diagram: "Memory 1"). When the Memory is activated each time a new tag is read, the reader displays the number but if the same tag is read twice by mistake the reader indicates this by emitting a characteristic beep and displaying "DUP" on the right of the screen.

This number will not be stored a second time.

If the reader is switched off, the memory function will still be activated when it is switched on again.

# **Deactivating the memory**

The memory can be deactivated via the "Memory" menu. Two cases may arise:

### First case:

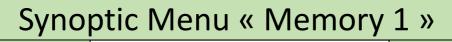
Numbers are recorded in the reader's memory (Block diagram: Memory 3) In this case you must transmit the list of recorded numbers actually or virtually (without plugging in the USB cable) and then erase them.

### Second case:

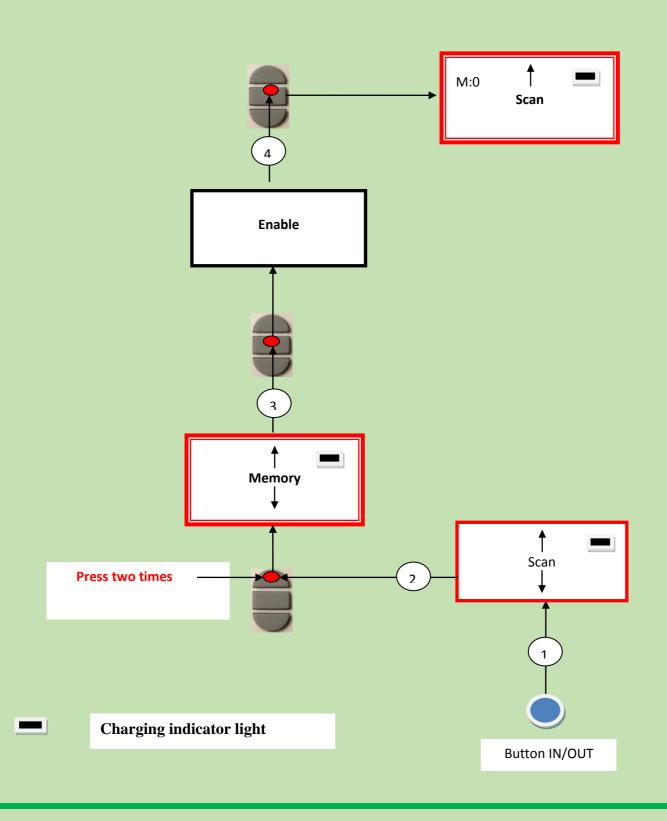
The memory has been previously activated but no number has been recorded. In this case simply "deactivate" the memory (block diagram: "Memory 2")

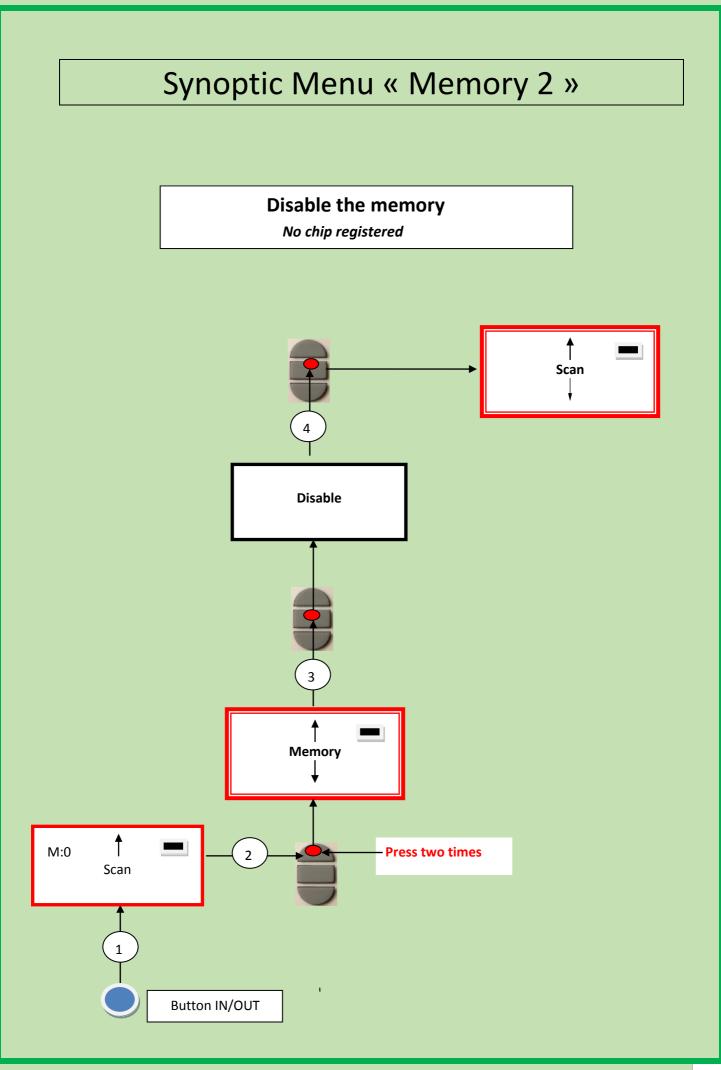
## **Erasing the memory**

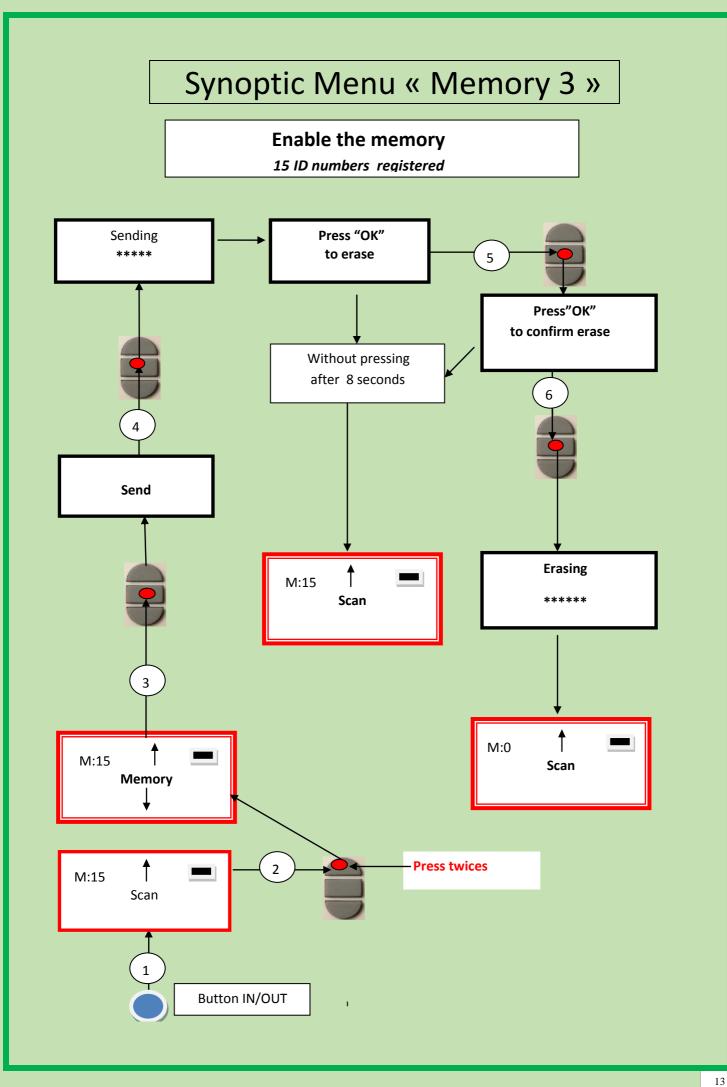
To erase the contents of the memory to avoid errors, you must select the "Memory" menu and transmit the list of recorded numbers actually or virtually (without plugging in the USB cable) and then erase them (see Block Diagram: Memory 3).



Enable the memory







# **Communication between V8BT and a PC**

To transfer the contents of the memory you must connect the reader to a PC via the USB cable. You must then select the "Memory" menu and follow the instructions given on the display (see Block Diagram: "Memory3").

If the reader is connected to a PC it will transfer the number of the tag read on each reading. It is not necessary for the "Memory" function to be activated to carry out this transfer.

Caution: for the reader to communicate with a PC, you must first install the driver and have software such as Hyperterminal (Windows XP,Window 7), Realtrace Terminal, etc. which enables the data to be displayed on the computer screen and processed if necessary.

# Use of the Windows « Hyperterminal »windows XP or similar on Windows 7, 8, 10

The current version of the V8BT, transmits the read identifiers to the PC it is connected to, either via the USB cable or its wireless link (Bluetooth). The reader does not wait for any order or acknowledgement from the PC.

## **Hardware configuration**

The serial port for reading the data is configured as follows:

## - 9600 bauds, 8 bits, 1 start bit, 1 stop bit, non-parity, and no flow control.

You must authorize line feeds to visualize the frames using the *hyperterminal*: click on « properties » in the « file » menu. Go to the « parameters » and then click on « ASCII Configuration... » :

Configuration ASCII
Émission ASCII <u>E</u> nvoyer les fins de ligne avec saut de ligne <u>R</u> eproduire localement les caractères entrés Délai de la ligne : 0 millisecondes.
Délai de <u>c</u> aractère : 0 millisecondes.
Réception ASCII Ejeuter les sauts de ligne à la fin des lignes entrantes Eorcer les données entrantes en ASCII 7 bits Retour automatique à la ligne
OK Annuler

### Description of the frame transmitted each time a transponder is read

The PetScan transmits the following frame to the PC after each valid reading :

tl	Octet at the start of he rame : "U" "/x55"	Type of 8 character (or octet) chip	The 16 character (or octet) chip identifier	Separation of octet: "*":	TT-control ASCII format characters	Carriage Return octet: "/x0D"
-		Data used	to calculate the	e CRC		$\rightarrow$

Tips: the developers of software associated with PetScan must use the head and separation characters to separate the information transmitted by PetScan, calculate a control word with the data received and compare it to the word transmitted by the PetScan to validate the information (see appendix for the CRC-CCITT-16 bit calculation algorithm)

### Description of the frames emitted when reading the databases (PetSCAN memory option)

If a PetScan reader has a memory option, when « Press SCAN to send » is displayed, the reader is ready to transmit the identifiers stored in the memory. The PetScan displays « Sending ! » during transmission and the reader offers the user the option of deleting the content of its database at the end of the transmission.

Format of the frames transmitted to the PC : the frame which is transmitted on each reading of a transponder is preceded by a header octet "/xAA", its 4 character registration number in the memory and a separation character "\*".

rt of frame et : "/xAA"	0	t of informatior ect : "U" "/x55"				word, riage return charactet: "/x0D"
←		 Data u	sed to calcula	te the CRC	 	<b>&gt;</b>

### Algorithm for calculating aCRC-CCITT-16bit control word

The C ANSI function's source code enabling a control word to be calculated from a string of characters terminating with the character "/x00" is described below. The JAVA applet on the « http://www.zorc.breitbandkatze.de/crc.html », website enables you to also calculate the control word. Previously the fields had to be correctly completed before making the CRC calculation and a check made that the control word is equal to 0xE5CC or the "123456789" character string.

\_\_\_\_\*/ /\* Function that calculates CRC-CCITT 16 bits /\* INPUT: /\* unsigned char \*inbuffer : 8 bits input vector over which CRC checksum is calculated /\* must termined by 0x00 /\* OUTPUT: /\* unsigned int: 16 bits return of crc ccitt checksum /\* /\* OVERVIEW: /\* Width = 16 bits /\* Truncated polynomial = 0x1021/\* Initial value  $= 0 \times FFFF$ /\* No XOR is performed on the output CRC /\* DESCRIPTION: /\* Computing a POLY number from the crc equation. /\* Crc s are usually expressed as an polynomial expression such as: /\* /\*  $x^{16} + x^{12} + x^{5} + 1$ /\* CHECK /\* 0xE5CC This is the checksum for the ascii string "123456789" /\* **EXAMPLE** /\* http://www.zorc.breitbandkatze.de/crc.html #define crc\_poly 0x1021 // Polynome du CRC-CCITT-16Bits unsigned int crc\_ccitt16 (unsigned char \*inbuffer) { unsigned int crc\_checksum = 0xffff; unsigned char ch; char i, xor flag; while ( \*inbuffer!=0) ch = \*inbuffer++; for(i=0; i<8; i++) { xor\_flag=(crc\_checksum & 0x8000)? 1:0; crc\_checksum = crc\_checksum << 1;</pre> if (ch & 0x80) crc\_checksum++; if (xor flag) crc checksum = crc checksum ^ crc poly; ch = ch << 1;

}	{  i }	(i=0; i<16; i++) xor_flag=(crc_checksum & 0x8000)? 1:0; xrc_checksum = crc_checksum << 1; f (xor_flag) crc_checksum = crc_checksum ^ crc_poly;
}	retu	urn (crc_checksum);
		http://www.zorc.breitbandkatze.de/crc.html
		CRC parameters
		CRC order (164) 16
		CRC polynom (hex) 1021 reverse!
		Initial value (hex) FFFF convert © nondirect © direct
		Final XOR value (hex) 0
		🗖 reverse data bytes 🛛 🗖 reverse CRC result before Final XOR
		clear CRC-CCITT CRC-16 CRC-32
		Data sequence
		123456789 Clear
		Result
		E5CC (hex), 9 data bytes compute!

# How to know what USB port the V8BT is connected to. (Windows XP,7, 8)

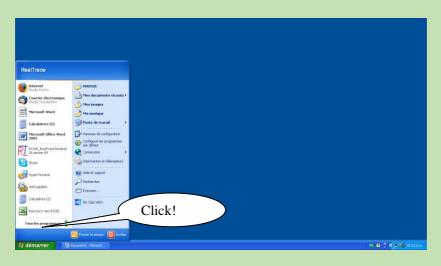
When you connect a peripheral to a USB port on a PC, the PC automatically assigns it a port number. The peripheral is often automatically recognised by the application software; thus it is not necessary to configure it. This is the case with printers, scanners, etc.

Other types of application software need to have the communication port assigned by the PC indicated to them, in some cases with other information such as the communication speed, the form of the data transmitted, etc.

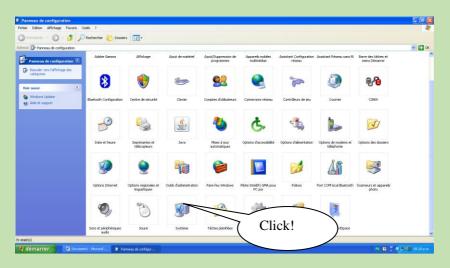
As regards the V8BT, it is possible that the right port will be automatically assigned by the PC to the application software, but it is also quite likely that you will have to choose it yourself from all the ports offered to you. You can of course try them one after the other, but in some cases the PC's peripheral configuration system will propose dozens of them...

In this case we suggest a more rational method which will also allow you to check that your V8BT's readerr is correctly installed.

Select as shown below.



Then select « System »



Then select « Device »

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Then Select « Device Manager »

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Then select « Ports (com et LPT) »

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The screens may be a little bit different. It depends of the Windows version.

# **RealTrace Terminal**

This software is a tool supplied free of charge to all users of the RFID Realtrace standard (with USB cable) or Bluetooth reader.

You can download this software following this link :

http://download.realtrace.com/RealtraceTerminal.exe

# Initial parameterization of the « RealTrace Terminal » software

Sometimes, after installing Realtrace Terminal on your PC, you will have to parameterize the communication. Sometimes it is not necessary but as safety precaution you can verify if all is correct. Click on «*File* » *then* «*Properties* » then enter the USB port or Bluetooth's communication port number as well as the following data :

- bits per second : 9600
- data bits : 8
- stop bits :1
- parity : none
- flow control : none

# Using the software "Realtrace Terminal"

# Menu Options

*Choose your language*. You can choose between French, English, Spanish, and Chinese. *Select the data you want to appear:* 

- if you select "All data" it will show the type of chip (FDXB, HDX, FDXA) followed by the ISO "smart" number and the CRC.

Example: UFDXB 939 000004095425\*AC02

 if you do not select "All Data" only the ISO number of the "chip", or 15 numeric characters (FDXB and HDX), or 10 Hexadecimal characters (FDX A) will be displayed. Example: 939 000004095425

Do not forget to declare the type of keyboard you use - AZERTY or QWERTY - if not you risk having inconsistent signs being displayed on the PC screen.

# <u>''File'' menu</u>

The "Save", "Delete" and "Exit" functions are classic.

The "Linking an application" function when selected allows you to link the data sent by the reader to the PC to a Windows application (Word, Excel, etc.) and simultaneously display in the "RealTrace Terminal" window.

If you want to save an Excel file, a number or a list of numbers stored in the memory of the reader you must select "Linked to an application." You then have five seconds to open your application, Word, Excel, etc. After this period if no application is opened data will be sent to the Realtrace Terminal and appear on the initial screen.

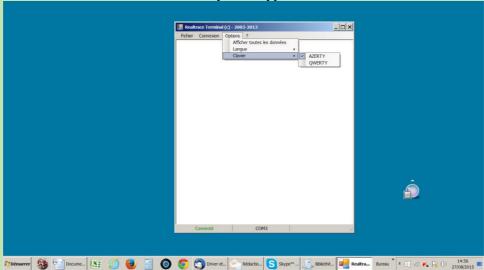
# "Connection" Menu

In case of breakdown in communication between the PC and the reader simply select "Connect" to automatically reconnect.

Obviously for reconnection to be possible, the reader must be turned on and be within ten meters around the PC, which must also be turned on.



Keyboard Type



### **Communication Port Selection**

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### Selecting application after the 5-second delay

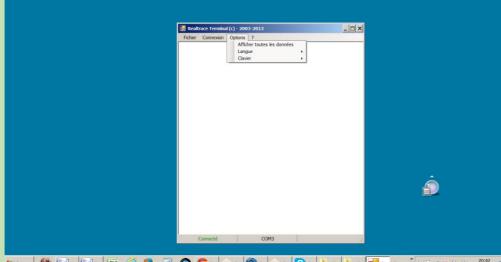
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# Linking an application

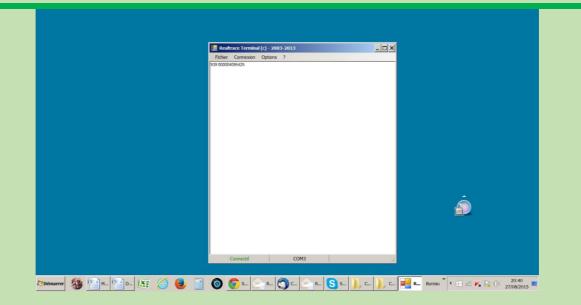
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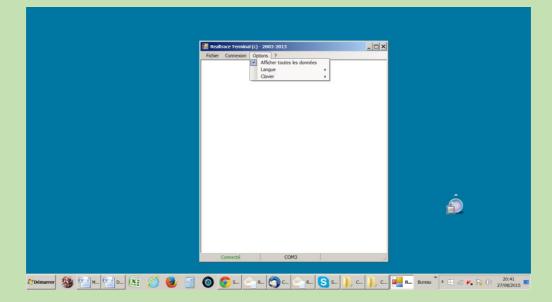
### Simple view: only ISO number

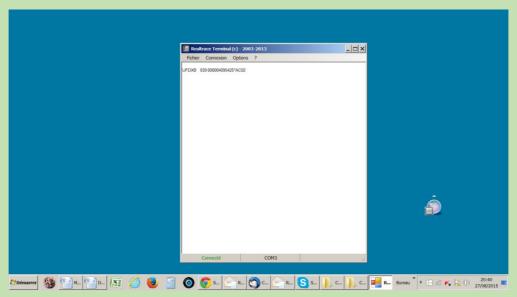


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### Showing all data





# Display message on reader startup! Setting the reader power timeout!

Through its hardware design, the V8BT reader was intended to be easier to update, allowing distributors and users to benefit immediately from upgrades that could better respond to market demands.

Now you can customize your reader through your PC by connecting to the http:// links that are listed below, but be careful:

The V8BT customizer that provides for customising the welcome message upon starting the reader only works from version VM14\_v05

V8BTTimeout, which can set the time before automatic shutdown, only works from version VM14\_v6  $\,$ 

Please note that you may find the version of the program installed in your old version of V8BT by reading the "Master Card Version V8BT" card that came with it (only distributors).

# 1 / Display message on reader startup (V8BT Customizer)

This message could be your company name, customer name, date of sale or other text of your choice given that you have two 16-character lines.

Upon starting the reader, the V8BT displays the recorded message for 4 seconds.

# 2 / Setting the reader power timeout. (V8BT timeout)

The use of a lithium/ion battery has provided a significant increase in the autonomy of the reader (several thousand uses). Therefore, you can adjust the auto-power-off period as required: 2, 5, 10, or 30 minutes or if you prefer, you can switch off the timeout altogether (not recommended). This setting can be implemented the same way if Bluetooth is enabled. For your information, the reader without auto-power-off, and with **Bluetooth enabled** works for over 48 hours

## How to benefit from these options.

1/Just load the program option you are interested in on your PC, using the following links:

For the greeting:

http://download.realtrace.com/V8-Customizer.exe

To set the power timeout

http://download.realtrace.com/V8-Timeout.exe

2/ Connect the reader to the PC via USB cable

3/ Start the reader and open the program on the PC.

🔚 V8 - Customizer	×
Realtrace	
4_April_2014_	
Clear Write	Configuration Automatic

For example, you can use this date as the validity of the start of the guarantee period.

4 / Enter the fields on the screen and confirm (Write). The communication port is configured automatically.

The new settings will be implemented upon the next launch of the V8BT reader.

💀 V8 - Timeout	
ve - Timeout	
Default Timeout : 2 minutes	
Bluetooth Timeout : 2 minutes	
	Configuration
Set	Automatic 🗾

PS: Customizing each reader takes a few seconds.

# "PetScan" program instructions for Android mobile phones Models RT250BT - V8BT - V8M

This program is compatible with V8BT, V8M, RT250BT readers.

The main function of these readers is to read the number of ISO chips implanted in animals. They each have their own specific elements to meet different user needs.

These readers inaugurate the generation of connected readers. Their operation is linked to the use of an Android or iOS mobile phone.

With the power of the phone, these readers become a connected tool without limits.

Information about the "chip" is stored on the phone's memory. Each reading of the "chip" can be linked to the ISO number, the date and time of reading, location, a photo of the animal as well as variable data such as name, address, phone number, etc.

This data is saved on the phone's memory but can be transferred to an external PC, Cloud or via e-mail.

Even after being implanted in the animal, these readers also allow the user to write additional data on the chip such as the animal owner's name and his phone number\*.

The **RT250BT stick reader** — due to its length — allows an increase in the distance at which an animal's "chip" can be read. There are both, short (65 cm) and long (95 cm) versions of the reader. This version allows you to read either aggressive dogs or animals in cages through bars, or livestock, cattle, &goats, pigs, etc., all at a safe distance.

The long version is also used in fish farms, the front part being perfectly watertight.

**The V8BT and V8M also allow the user to write additional data on the "Chip"** at 7/8 cm, such as the name of the owner and his phone number, etc.

Furthermore, after reading a "Chip" and recording the data in a database, it is possible to recover this additional information via connection to a server.

The following information relates to the functions offered by the standard software provided free of charge via Play Store or Apple Store\*.

This full, free version can be used as a management tool. It can be adapted to your needs upon special request.

## Which phones are supported?

Normally, all iOS phones (Apple) and "Android". If you wish to buy a phone intended for your needs, we recommend choosing a phone with a minimum of 12 GB of built-in memory. If you wish to incorporate your database into your phone, we advise you to choose a model that supports additional memory (SD card).

To benefit from all the services offered by these readers, it is necessary for the phone to have Bluetooth, WiFi and integrated GPS localisation

# How do I get the free ''PetScan'' software?

You have to log into "Play Store" or "Apple Store" and download the "PetScan" program onto your phone before installation. A "PetScan" icon will appear on your phone's screen after installation is complete.

## How much does it cost?

Using the program is free since you only use Bluetooth communication between the reader and your phone, and possibly WiFi between your phone and your Box.

# Discovering the "PetScan" program!

The distance between the reader and the phone must not exceed ten metres in order to guarantee a

good Bluetooth transmission.

Preparing the phone and the reader:

1/ Enable the Bluetooth function (on the reader and the phone). The blue LED of the reader flashes.

2/ In the "Settings" of your iPhone  $\rightarrow$  Brightness and Illumination  $\rightarrow$ Auto Locking, select 5 min.

3/ In display and wall paper of your Android  $\rightarrow$  Screen time out select 5 min.

# Be aware that each time your phone goes into sleep mode, communication with the reader will be cut off!

3/ If you have a WiFi connection, it is advisable to activate it. This will allow you to have faster access to Google Maps and avoid communication costs, especially if you are abroad.

4/ Switch on the reader and activate Bluetooth (see the user manual).

5/ Open the "PetScan" program.

# **Android version : Connection to the reader**

After opening the "PetScan" program, the following screen will appear:

D 🕂 🛛 🚥	🛛 🔺 🔋 🛇 70% 🗖 21:31
8	PETSCAN
Ċ	Connect Reader
H	Scan
≡	History
C	Database

Select "Connect reader".

The phone will try to connect to a nearby reader for about 10 seconds. Two things can happens.

1/ The phone finds a reader and connects. In this case, the blue "LED" of the reader changes from flashing o constant. The phone screen shows "Disconnect".



- 2/ The blue led of the reader is flashing. After ten seconds of searching, the phone has not found a reader. In this case, two possibilities:
- a) the following message will appear:

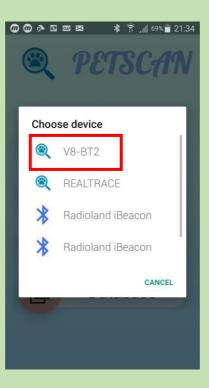


Try again!

If a connection has not been established, a reason may be:

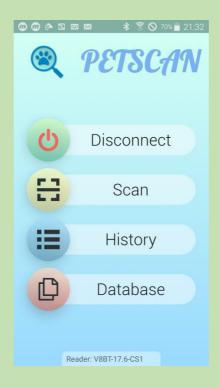
- Failure when turning on the reader,
- Failure to charge the reader's battery,
- Wrong setting of your phone's Bluetooth (see the manual of your phone),

b) After 20/30s the following message will appear:



Are displayed all the peripheral Bluetooth detected.

The reader found is a Bluetooth 2 model : select V8-BT2

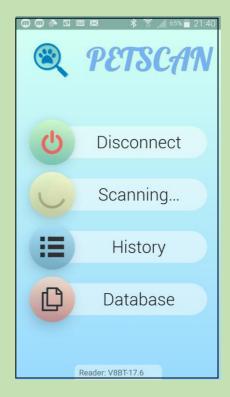


The phone is connected to the reader. The blue led of the reader become fixed.

Searching for, reading and writing on a transponder (chip) with the reader: "Scan" function

To search for and read a "Chip", select "Scanner":

The reader then searches for a "Chip" near it, 10 to 12 cm for about 25 seconds, and "Scanning" is displayed:



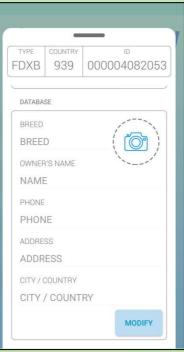
Two things can happen:

1/ The reader has not found a "Chip", a beep is emitted and it is displayed again:



2/ The reader has found and read a blank chip, that is to say without additional data stored in the chip or in the database of the phone or the server\*:

TYPE COUNTRY DXB 939 00000	4082053	
	1002000	
TRANSPONDER MEMORY		
NAME		
NAME		
PHONE		
PHONE		
No contact scanned	MODIFY	
DATABASE		
BREED	·	
BREED		
OWNER'S NAME		
NAME		



Memory of the chip: nothing

Phone database: nothing

3/ The reader has found and read a chip with data written in the memory of the chip and/or in the database of the phone or the server:

FDXB 939 000004082053	FDXB 939 00000408205
TRANSPONDER MEMORY	DATABASE
NAME SMITH	BREED
PHONE	Siamois
+33625411356	OWNER'S NAME
	Smith
MODIFY	PHONE
DATABASE	+33134618980
BREED	ADDRESS
Siamois	Av.du GI de Gaulle
OWNER'S NAME	CITY / COUNTRY
Smith	75016 Paris France
PHONE	MODIFY
+33134618980	

# Writing on the memory of the "Chip" with the reader

	No S	iervic	• Ŧ		19	:48			5	-2	No Service 🗢 19:48 🔳
TYPE COUNTRY ID FDXB 939 000004082053	1	FD		<sup>rry</sup> 9 (	000		<sub>ات</sub> 40	820	)53		TYPECOUNTRY ID FD. 939 000004082053
TRANSPONDER MEMORY		NA	WE								NAME
SMITH			MITH	4							SMITH
PHONE			ONE								PHONE
+33625411356		+3	3313	4618	3980						+33134618980
. MODIFY		2	AN	CEL			V	VRIT	E		MODIFY
		DA	TABAS	E							DATABASE
DATABASE	1	2	3	4	5	6	7	8	9	0	RACE
Siamois											Confirm
OWNER'S NAME	-	<u> </u>		;		2	\$	&	@	Ű	Write
Smith	#+=		•	,		?	1	1		$\otimes$	WIIte
PHONE					-	_					Cancel
+33134618980	ABC		Ð	<u></u>	S	spac	e		Dor	ne	

## Select MODIFY

## Enter the text and select **WRITE**

# Confirm writing

	-	
TYPE	COUNTRY	ID
FDXB	939	000004082053
TRANSP	ONDER MEM	ORY
NAME		
SMIT	Н	
PHONE		
+3362	25411356	5
_	25411356 Vriting	MODIFY
_	Vriting	
·V	Vriting <sub>SE</sub>	
DATABA	Vriting se	
DATABA BREED Siamo	Vriting se	
DATABA BREED Siamo	Vriting se dis	

Writing is in progress

TYPE COUNTRY ID FDXB 939 000004082053 TRANSPONDER MEMORY NAME SMITH PHONE +33134618980 Update MODIFY succeeded DATABASE BREED BREED OWNER'S NAME NAME PHONE

# Writing is correct: a beep is emitted

TYPE	COUNTRY	ID					
FDXB	DXB 939 000004082053						
TRANSP	ONDER MEM	ORY					
NAME							
SMIT	Н						
PHONE							
+3313	34618980						
Coop	failed	MODIFY					
Scall	ITAIIEU	MODIFY					
DATABA	SE						
BREED		1					
Siamo	ois						
OWNEF	'S NAME						
Smith							
PHONE							
THOME							

Writing failed:

- chip too far from the reader.
- memory blocks not open.

	-	_
TYPE	COUNTRY	ID
FDXB	939	000004082053
TRANSPO	ONDER MEM	ORY
NAME		
SMITH	-	
PHONE		
+3362	5421369	)
Wron	g chip	MODIFY
DATABAS	È	
BREED		
Siamo	is	
OWNER	'S NAME	
Smith		
PHONE		
+3313	4618980	)

Attempt to write a chip different from the one initially read: a sound signal is emitted

DXB 939 000004082053	FDXB 939 000004082053
DATABASE	DATABASE
BREED	BREED
BREED	Siamois OWNER'S NAME
NAME	Smith
PHONE	PHONE
PHONE	+33134618980
ADDRESS	ADDRESS
ADDRESS	Av.du Gl de Gaulle
CITY / COUNTRY	CITY / COUNTRY
CITY / COUNTRY	75016 Paris France
MODIFY	CANCEL

Writing information to be saved on the phone or server database\*

Enter one or more fields after selecting MODIFY and SAVE

The datas will be saved into the Database of the phone or on the SERVER\*

# Saving a photo of the animal



# TYPE COUNTRY ID FDXB 939 000001375552 TRANSPONDER MEMORY NAME MIREPOIX PHONE 0623125988 MODIFY DATABASE REEED Cat picture from... Gailery Photos

# Click on the "photo" icon

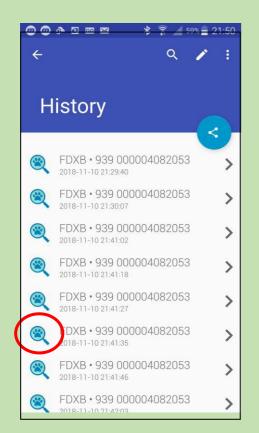
Two possibilities are available:

- take a photo
- choose a photo already saved on the phone.

TYPE	COUNTRY	ID
FDXB	939	000004082053
DATABAS	SE	
BREED		Alle
Siamo	ois	0 0
OWNER	'S NAME	a.
Smith		
PHONE		
+3313	4618980	)
ADDRES	SS	
Av.du	GI de Ga	ulle
CITY / C	COUNTRY	
75016	Paris Fr	ance

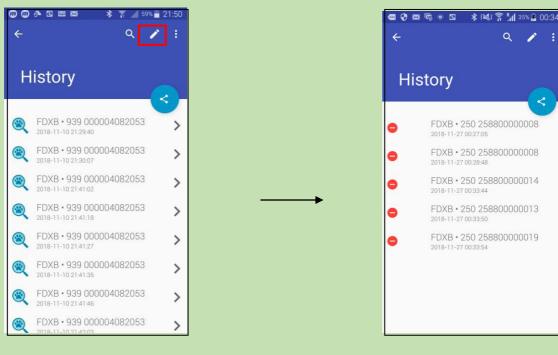
The "History" function

The "PetScan" software keeps the history of all "Chip" readings that have been made.

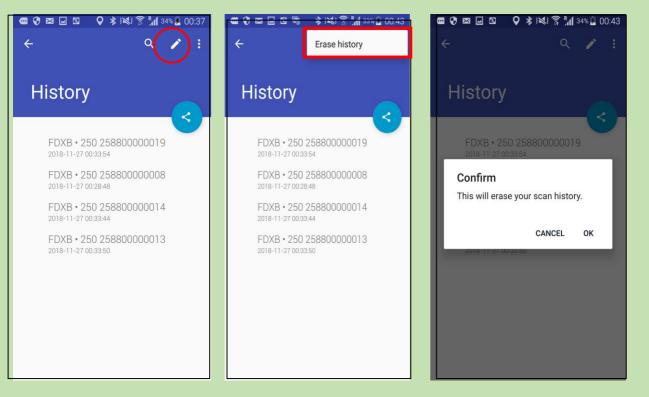


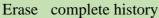


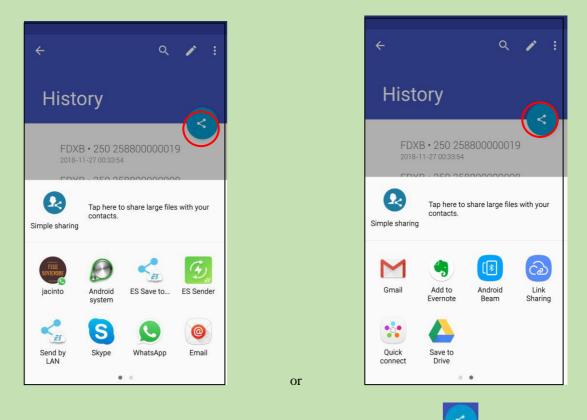
The number of the "Chip" tells you the date and time of the recording. Clicking the "PetScan" icon displays the place where the recording was made, if this information was provided by the phone when reading the chip.



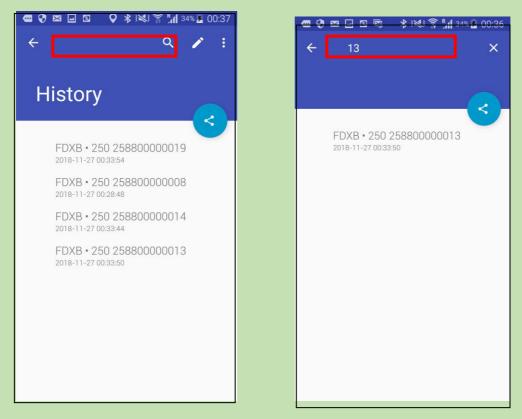
Selective deletion







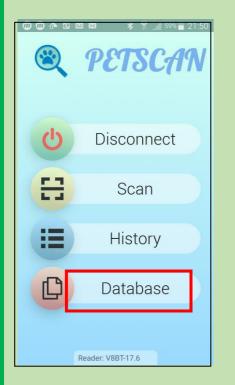
Files containing this information can be transferred

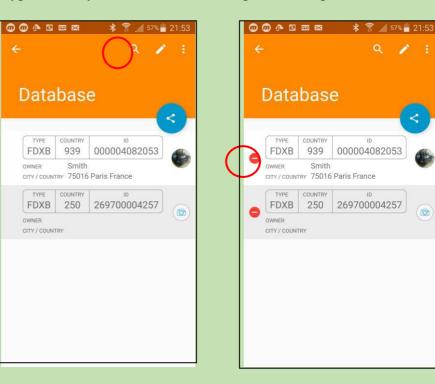


It is possible to search for a file by "Chip" number or by date by clicking on the "Search" field.

The ''Database'' function

This is the database that is stored on the phone's memory. The connection to an external database stored on a server is not included in the "PetScan" software. It needs specific expansion that depends on many parameters but that we can encrypt and carry out in the form of a requirements specification.





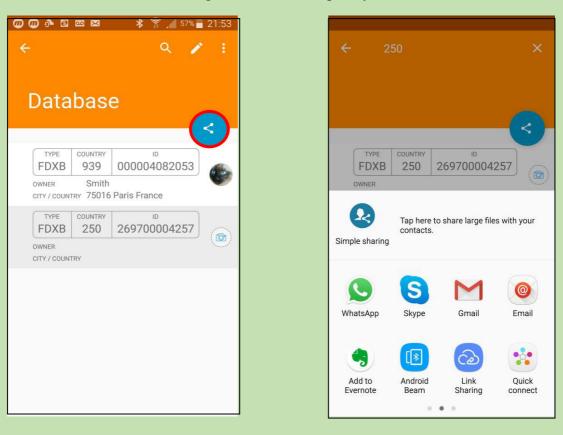
Selective deletion

0

		Erase database	
Datab	as	e	
Section 199	ountry 250	<sup>™</sup> 258800000008	
	OUNTRY	<sup>™</sup> 258800000014	~
DWNER	250	25880000014	
	ountry 250	ID 258800000013	
CITY / COUNTRY	OUNTRY	<sup>ID</sup> 258800000019	

🚭 😯 🖾 🖃	s 🗟 🕻	● ★  ★  常 !	46% 🖻	01:52
÷				
Data	base			
FDXB	country 250	10 25880000	8000	シ 今
Confir		our occa hist		
i nis wi	li erase y	our scan hist	ory.	
		CANCEL	ОК	
FDXB	COUNTRY 250	1D 25880000	0013	6
OWNER CITY / COUNT	RY			
FDXB	country 250	<sup>ال</sup> 25880000	0019	
OWNER CITY / COUNT	RY			

### Deleting the database completely



Files containing this information can be transfered.

Database				
				<
(1.00)(T) (T)(T(T)(T)(1.00))	1082053	FDXB	COUNTRY ID 250 2697000	04257
OWNER Smith CITY / COUNTRY 75016 Paris Fran	ce	OWNER CITY / COU	NTRY	(
	0004257			
OWNER		20		20th
CITY / COUNTRY		123	8 4 5 6 7	89
		qwe	ertyu	i o
		a s	d f g h	jk
		↑ z	xcvb	n m

It is possible to search for a file by "Chip" number or by date by clicking on the "Search" field.

# Apple mobile version (iOS): connection to reader

After opening the "PetScan" program, the following screen will appear:



Select "Connect the reader".

The phone will try to connect to a nearby reader for about 10 seconds. Two things can happen:

1/ The phone finds a reader and connects. In this case, the blue "LED" of the reader changes from flashing to constant. The phone screen shows "Disconnect".



2/ After ten seconds of searching, the phone has not found a reader. In this case, the following message will appear:

No Service 🗢	19:45	
	PETSC	AN
C	Connect Rea	der
Cor	nnection timeout No reader found Cancel	E.
8	Database	

Try again!

If a connection has not been established, a reason may be:

- Failure when turning on the reader,
- Failure to charge the reader's battery,
- Wrong setting of your phone's Bluetooth (see the manual of your phone),
- Incompatibility of the Bluetooth version in the reader. The iPhone only recognises the version
- Bluetooth 4, also called Bluetooth BLE. Readers put into service before 2017 have Bluetooth 2, which is incompatible with the iPhone.

Searching for, reading and writing on a transponder (chip) with the reader: "Scan" function

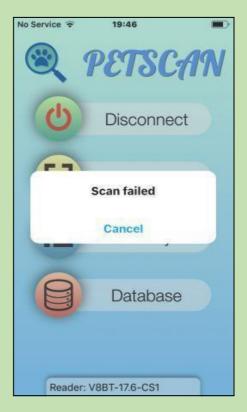
To search for and read a "Chip", select "Scanner":

The reader then searches for a "Chip" near it, 10 to 12 cm for about 25 seconds, and "Scanning" is displayed:

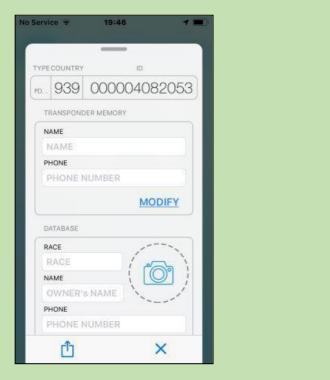


Two things can happen:

1/ The reader has not found a "Chip", and displays:



2/ The reader has found and read a blank chip, that is to say without additional data stored in the chip or in the database of the phone or the server\*:



Memory of the chip: nothing

Servi	C0 -	19:47 7
		_
TYPE	COUNTRY	ID
FD	939	000004082053
R.		
D	ATABASE	
R	ACE	1
I	RACE	( And )
N	AME	
1	OWNER'	s NAME
P	HONE	
. 1	PHONE	NUMBER
A	DDRESS	
	ADDRES	S
c	ITY / COUN	ITRY
(	CITY / C	OUNTRY
	CANCE	L MODIFY
	Û	×

Phone database: nothing

3/ The reader has found and read a chip with data written in the memory of the chip and/or in the database of the phone or the server:

YPE COUNTRY ID	TYPE COUNTRY ID
939 000001375475	939_0000040820
TORNSP DIDDL'S INEWIORY	
NAME	DATABASE
SMITH	RACE
PHONE	Siamois
+33134618981	NAME
MODIFY	Smith 🛛 🦋
	PHONE
DATABASE	+33134618980
RACE	ADDRESS
Siamois	Av du Gi de Gaulle
NAME	CITY / COUNTRY
Smith	75016 Paris France
PHONE	CANCEL MODIFY
+33134618980	
ф ×	Ê ×

### Writing on the memory of the "Chip" with the reader

Service - 19:46 - 7 🔳	No S	ervice	ę		:48					No Servi	Co 🗢	19:48
TYPECOUNTRY ID	т	YPECC	UNTRY			ID				TYPE	COUNTR	( ID
RD 939 000004082053		ю S	939	000	)00	40	820	)53		fD	939	00000408205
TRANSPONDER MEMORY		NAM	F								AME	
NAME			ITH								SMITH	
NAME		PHO									HONE	
PHONE PHONE NUMBER			31346	18980	)					100		618980
MODIFY			ANCE BASE	6		V	VRIT	E		0	ATABASE	MODIFY
RACE	1	2	3 4	5	6	7	8	9	0		ACE	
NAME ( )		1	: ;	(	)	\$	&	@	"			Confirm
PHONE	#+=				?	1		_	$\otimes$			Write
1 ×	ABC		Ŷ	5	spac	е		Dor	ne			Cancel

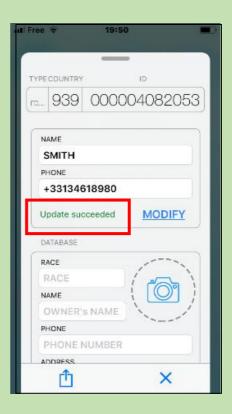
Select MODIFY

Enter the text and select **WRITE** 

Confirm writing

			0.
TYPE	COUNTRY		ID
FD	939	0000	04082053
N	AME		
:	SMITH		
P	HONE		
	+331346	618980	
200	Writing	g	MODIFY
D	ATABASE		
R	ACE		
1	RACE		1000)
N	AME		
1	OWNER'	s NAME	
P	HONE		762
1	HONE	NUMBER	
1.0	DDRESS		

Writing is in progress



Writing is correct: a beep is emitted

PD. 939 000004082050 NAME SMITH PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME OWNEP'S NAME	NAME SMITH PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME OWNER'S NAME PHONE	TYPE	COUNTRY		ID
SMITH PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME	SMITH PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME OWNER'S NAME PHONE	FD	939	0000	04082053
PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE NAME	PHONE +33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME OWNER'S NAME PHONE	N	AME		
+33134618980 Scan failed MODIFY DATABASE RACE RACE NAME	+33134618980 Scan failed MODIFY DATABASE RACE RACE RACE NAME OWNER'S NAME PHONE	5	SMITH		
Scan failed MODIFY DATABASE RACE RACE NAME	Scan failed MODIFY DATABASE RACE RACE NAME OWNER'S NAME PHONE	P	HONE		
DATABASE RACE RACE NAME	DATABASE RACE RACE NAME OWNER'S NAME PHONE		+331346	618980	
RACE RACE NAME	RACE RACE NAME OWNER'S NAME PHONE	S	can failed	Č.	MODIFY
	RACE NAME OWNER'S NAME PHONE	D	ATABASE		
NAME	NAME OWNER'S NAME PHONE	R	ACE		
	OWNER'S NAME	F	RACE		1000
OWNER'S NAME	PHONE	N	AME		
Stitute Statistic		1	OWNER'	s NAME	
PHONE	DHONE NUMPED	P	HONE		7 844 87
PHONE NUMBER	Priorie Homben		HONE	NUMBER	

ervice Ŧ	19:52	
YPECOUNTRY		ID
0 939	00000	4082053
TRANSPON	DER MEMORY	
NAME		
SMITH		
PHONE		
+331346	618980	
Wrong chip	×	MODIFY
DATABASE		
RACE		1
RACE	i	1
NAME	ļ	$\bigcirc$
OWNER	s NAME	
PHONE		
PHONE I	UMBER	
Û		×

Writing failed:

chip too far from the reader. memory blocks not open.

Attempt to write a chip different from the one initially read: a sound signal is emitted.

Writing information to be saved on the phone or server database\*

TYPECOUNTRY	152 <b>•</b>		19:55
[FD   939   000	0004082053	FD., 939 00	00004082053
e - ·			
DATABASE		DATABASE	
RACE		RACE	
NAME OWNER'S NAM		NAME Smith	
PHONE		PHONE	
PHONE NUMBE	R	+331346189	80
ADDRESS		ADDRESS	
ADDRESS		Av du GI de G	aulle
CITY / COUNTRY		CITY / COUNTRY	
CITY / COUNTR	SA.	75016 Paris F	rance
CANCEL	MODIFY	CANCEL	MODIFY
Û	×	Ċ	×

Enter one or more fields after selecting MODIFY

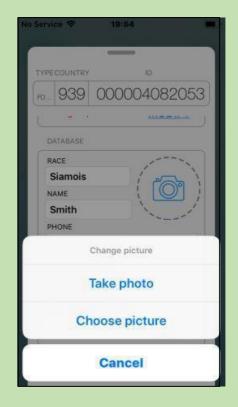
Service 🗢	19:53
	_
TYPECOUNTRY	ID
FD 939	000004082053
e	
DATABASE	
RACE	1
Siamois	1000
NAME	
Smith	
PHONE	
+33134	318980
ADDRESS	
Av du Gl	de Gaulle
CITY / COU	ITRY
75016 P	aris France
CANCE	L SAVE
Û	×

After entering one or more fields, select SAVE, and the data will be saved on the phone database or on the server\*

### Saving a photo of the animal

No Service 🗢	19:54
TYPECOUNTRY	-
FD 939	000004082053
E	
DATABASE	
RACE	
NAME	
Smith	
PHONE +331346	19090
ADDRESS	10900
Av du Gl	de Gaulle
CITY / COUN	ITRY
75016 Pa	aris France
	MODIFY
Ċ	×

Click on the "photo" icon

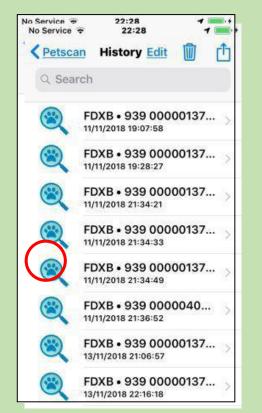


Two possibilities are available:

- take a photo
- choose a photo already saved on the phone.

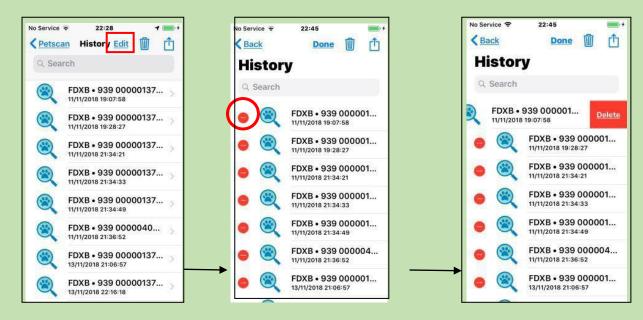
### The "History" function

The "PetScan" software keeps the history of all "Chip" readings that have been made.

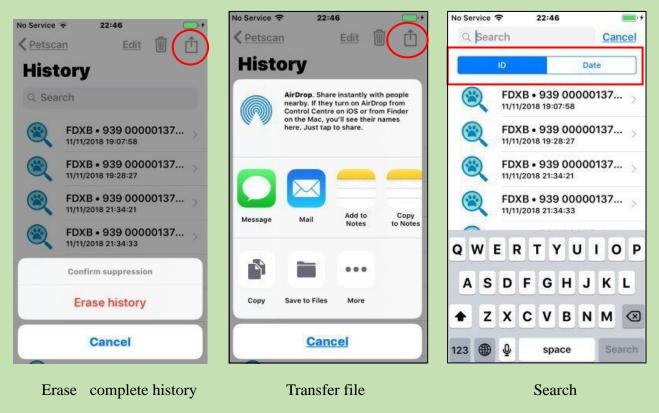




The number of the "Chip" tells you the date and time of the recording. Clicking the "PetScan" icon displays the place where the recording was made, provided that this information was provided by the phone when reading the chip.



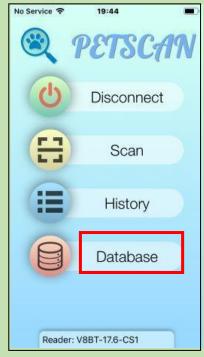
Selective deletion Files containing this information can be selectively deleted by selecting Edit or universally by clicking on the trash icon or transferred



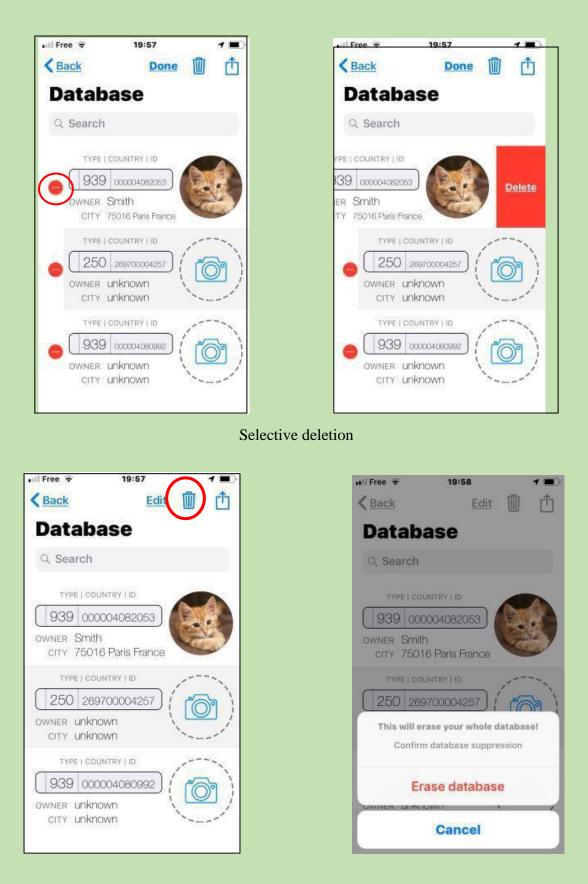
It is possible to search for a file by "Chip" number or by date by clicking on the "Search" field.

The ''Database'' function

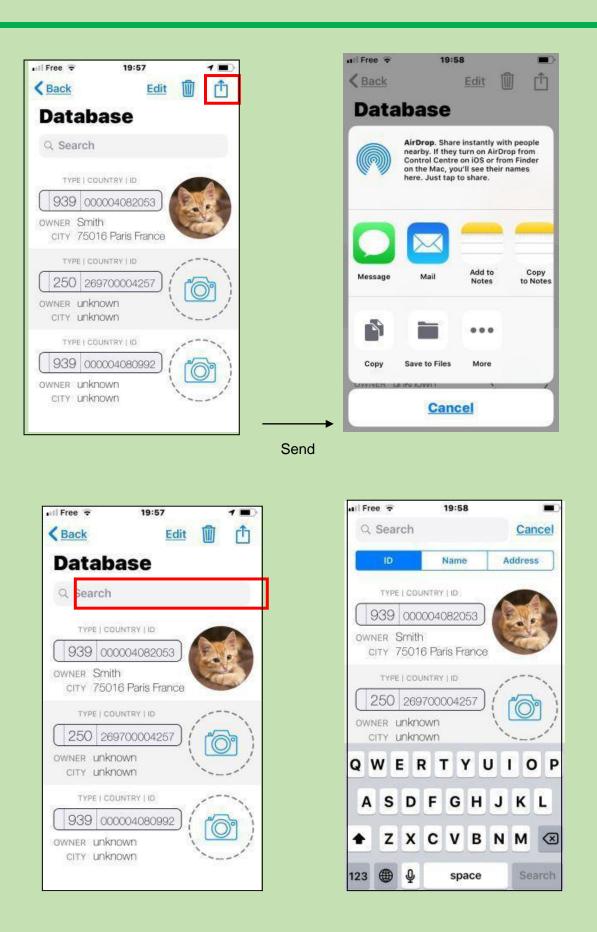
This is the database that is stored on the phone's memory. <u>The connection to an external database</u> <u>stored on a server is not included in the "PetScan" software.</u> It needs specific expansion that depends on many parameters but that we can encrypt and carry out in the form of a requirements specification.







Deleting the database completely



Carrying out a search in the database can be done by "Chip" ID or by name or by address.

# Using the "PetScan" software with the RT250BT



The "PetScan" application can be used alfo with the RT250BT\* after activating the reader's Bluetooth function.

The RT250BT is delivered with the function "time out" (2 min), which is activated to save energy. It is advisable to adjust the automatic time out setting and to set it to 30 min or more. If you do not do this, you risk having the reader turn off before a connecting has been made to the phone. Once connected, the player will not turn off even if the "Time out" has not been changed, except when exiting the program **or turning off the phone**.

To change the duration of the "Time out", you must load the utility program onto your PC which you will find at the following link: http://download.realtrace.com/V8-Timeout.exe

The features described in the previous chapter are all compatible with the RT250BT, but the writing distance for additional data on the chips is much shorter, i.e. around 3/4 cm instead of 7/8 cm with the V8BT or V8M.

In order to leave one hand free, a phone attachment accessory for the RT250BT has been provided.

Finally, be aware that in all cases, reading a chip can be performed by selecting the "Scan" key on the main menu, or more conventionally, by pressing the play button on the reader in use.

\* Only the RT250BT4 or BT2/4 versions work with the iOS "PetScan" program. Earlier RT250BT2 versions can not work with iOS.

The RT250BT2, RT250BT4 and RT250BT2/4 versions work with Android. With Bluetooth 2, the blue LED of the reader flashes quickly.

With Bluetooth 4 or BT2/4, the blue LED flashes slowly.



# Using the "PetScan" Android" or iOS software with V8BT reader

The "PetScan" application can be used with the V8BT\* after activating the reader's Bluetooth function. The V8BT is delivered with a "Time out" function (2 mins) activated for power-saving reasons. It is advisable to modify the time out setting and increase it to 30 minutes or more. If you do not do this, you risk having the reader turn off before a connecting has been made to the phone. Once connected, the reader will not turn off even if the "Time out" has not been changed, except when exiting the program <u>or turning off the phone</u>.

To change the duration of the "Time out", it is necessary to connect the reader to your PC after having loaded the utility program which you will find by following the following link <a href="http://download.realtrace.com/V8-Timeout.exe">http://download.realtrace.com/V8-Timeout.exe</a>

The features described in the previous chapters are all compatible with the V8BT. The writing distance for additional data on the chips is in the range of 7/8 cm.

\* Only the V8 BT4 or BT2/4 versions works with the iOS "PetScan" program. Earlier V8BT2 versions can not work with iOS.

\* Versions V8BT2, V8BT4 and V8BT2/4 work with Android. With Bluetooth 2, the blue LED of the reader flashes quickly.



The "Realtrace Android" application can be used with the VBT after activating the reader's Bluetooth function **but only with the model produced after September 2016**.

However the V8BT is delivered with the "Time Out" function (2min) activated for power saving reasons it is advisable to change the "Time Out" setting and increase it to 30 minutes or more. If you do not, you risk having to re-pair the player with the phone every time it turns off ...

To change the duration of the "Time Out", you must load the utility program on your PC which you will find at the following link: <u>http://download.realtrace.com/V8-Timeout.exe</u> and connect your PC to the reader. The features described concerning V8BT are all compatible with the V8M.

## Programming a V8BT reader via the USB port

This programming of the V8BT reader by connecting the USB port of a PC is only possible from version V8.v 18.8

This and superior versions include a bootloader to update V8BT programs.

Material required:

- PC with Windows 7, 8, 10
- Drive with software V8 V18.8 or higher.
- Cable for drive connection to PC.

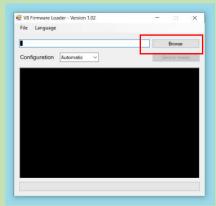
Software required

- Firmwareloader version 1.02.exe
- Firmware to be loaded in the V8BT.

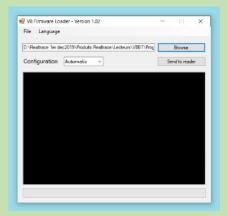
#### Procedure for the programming

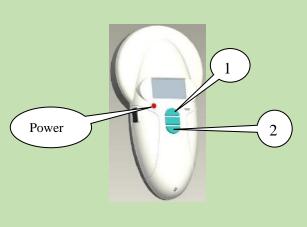
- Install Firmwareloader version 1.02.exe on PC
- Connect the V8BT to the PC using the USB cable

#### When the program opens, the following screen appears:



After loading the selected program in this case V8 I.D. ology-2.1





Start the V8 by holding down the Up (1) and Down(2) keys for a few seconds while pressing Power. Release the keys.

The V8 screen should remain black and the Bluetooth led should flash, informing that the drive has entered Bootloader mode ready to load a program.

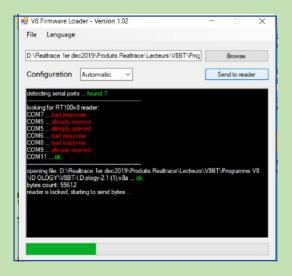
Start the download procedure by selecting "Send to Reader"

File Language			
D:\Realtrace 1er de	lec2019\Produits Realtrace\Lecteurs\V8	BT\Proc Browse	
Configuration	Automatic ~	Send to reader	

#### Automatic port searching...

V8 Firmware Loader - Version 1.02	- 1		$\times$
File Language			
D:\Realtrace 1er dec2019\Produits Realtrace\Lecteurs\V88T\Prog		Browse	
Configuration Automatic ~	Se	nd to read	der
detecting serial ports found 7.			-
looking for RT100v8 medge: COM3 bad response COM5 affectly operand. COM5 affectly operand. COM6 bad response. COM8 bad response. COM9			

#### Start of V8 reader programming



D	•	•	1 /	C	
Program	ming	18	complete.	Success	I
I I O SI MIIII		10	eomprete.	Daecess.	٠

File Language	
D:\Realtrace 1er dec2019\Produits Realtrace\Lecteurs\V8BT\Prog	Browse
Configuration Automatic ~	Send to reader
detecting serial ports found 7.	
ooking for RT100v8 reader:	
COM7 bad response.	
COME already an and	
COM5 already opened. COM5 already opened.	
COM5 already opened. COM6 bad response.	
COM5 already opened. COM6 bad response. COM8 bad response. COM9 already opened.	
COM5 already opened. COM6 bad response. COM9 already opened. COM9 already opened. COM11 ok.	
COM5 already opened. COM6 bad response COM9 already opened. COM9 already opened. COM11 ok. opening file: D:\Realtrace \Lecteurs\\	V8BT\Programme V8
COM5 already opened. COM5 bad response. COM9 already opened. COM1 ok. opening file: D`\Reatrace 1er dec2019\Produits Reatrace\Lecteurs\ ND OLOGY\V8BT-I.D.ology-2.1 (1).v8a ok. bytes count: 55612	V8BT\Programme V8
COM5 already opened. COM6 bad response. COM8 bad response. COM9 already opened. COM11 ok. opening file: D:\Reatrace 1er dec2019\Produits Reatrace\Lecteurs\ \UD LOG(YV8BT-I.D.ology-2.1 (1).v8a ok. bytes count: 55612 reader is locked, stating to send bytes unlocking application success.	VSBT\Programme V8
COM5 already opened. COM6 bad response. COM8 bad response. COM9 already opened. COM11 ok. opening file: D'\Realtrace 1er dec2019\Produits Realtrace\Lecteurs\ ND OLOGY\V8BT-I.D.ology-2.1 (1).v8a ok. bytes count: 55612 reader is locked, starting to send bytes	V8BT\Programme V8
COM5 already opened. COM6 bad response. COM8 bad response. COM9 already opened. COM11 ok. opening file: D:\Reatrace 1er dec2019\Produits Reatrace\Lecteurs\ \UD LOG(YV8BT-I.D.ology-2.1 (1).v8a ok. bytes count: 55612 reader is locked, stating to send bytes unlocking application success.	V8BT\Programme V8

The V8 reader displays the name of the new program

## **Tools for development**

Two starter kits are available for free:

SDK for application development using the Bluetooth function of the V8BT.

https://www.hypertide.com/v8m/V8MSDK-Rev-1.0.zip

SDK for application development using the V8BT with Windows 10.

https://www.hypertide.com/v8m/W10V8BTSDK.zip

## Free application on mobile Phone

**On Play Store** "PetScan"

On AppStore "PetScan"

# System « WOOSIT »

#### Writing the animal owner's telephone number(s) in the ISO tag

Our wish to constantly innovate and improve our products has led us to offer vets the option of personalising the tag, if they wish, before implanting it in the animal.

The main technological advance offered by this RT 250BTBT reader is that it will allow reading and display of data which can be entered by the vet in the majority of the "tags" currently marketed worldwide, provided that they comply with the ISO standard.

Realtrace has developed a system called "WOOSIT®" which is comprised of: A reader /programmer the PetSCAN RT150 (1) which enables the vet to write additional information to the "chip" before injecting it into the animal(2).

The PetSCAN RT 250BTBT which now offers the possibility to read and display the ID number but also to display additional data recorded by the vet in the memory as the phone number of the owner.

Due to the low memory capacity available in ISO chips (used up until then) the "WOOSIT" system is limited to the recording of one or two telephone numbers of 16 digits each. The vet and/or the owner of the animal may choose these numbers.

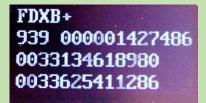
This system is totally compliant with the ISO 11784/85 standard of 1996 in addition to the new 14223 standard\* (May 2011) concerning the recording of data in advanced transponders.

It protects the asepsis of the chip, as the writing of the data is carried out via the cap which protects the needle.

If the owner prefers this, after the recording of one or two telephone numbers, the memory area used for this record can be blocked, making it impossible to delete or subsequently modify this information.

With the "WOOSIT" system, finding the owner of an animal will be particularly easy as reading the "chip" with the RT 250BTBT will provide the phone number(s) of the administrator of the database and/or the owner of the pet.

Naturally, any pet owner who does not wish to use this service can simply enter nothing in the memory area of the chip, as is currently the case.



ID number and phones numbers

Iso Chip 11784/85 compatible with the possibility to write aditionals data (+)

#### (1)Patented

(2)sous réserve que les blocks 3/9/10/11/12/13 (EM4305) ou 9/10/11/12/13/14/15 (EM 4569) ne soient pas verrouillés par le fournisseur de la « puce ».

# Writing the animal owner's telephone number(s) in the ISO tag

Our wish to constantly innovate and improve our products has led us to offer vets the option of personalizing the tag, if they wish, before implanting it in the animal.

The main technological advance offered by this V8BT reader is that it will allow reading and display of data which can be entered by the vet in the majority of the "tags" currently marketed worldwide, provided that they comply with the ISO standard.

Realtrace has developed a system called "WOOSIT<sup>®</sup>" which is comprised of:

The PetSCAN V8BT which now offers the possibility to read and display the ID number but also to display additional data recorded by the vet in the memory as the phone number of the owner.

The PetScan software available for Android (PlayStore) or iOS AppStore;

Due to the low memory capacity available in ISO chips (used up until then) the "WOOSIT" system is limited to the recording of one name or one phone number of 16 digits each. The vet and/or the owner of the animal may choose these numbers.

This system is totally compliant with the ISO 11784/85 standard of 1996 concerning the recording of data in advanced transponders.

It protects the asepsis of the chip, as the writing of the data is carried out via the cap which protects the needle.

If the owner prefers this, after the recording of one or two telephone numbers, the memory area used for this record can be blocked, making it impossible to delete or subsequently modify this information.

With the "WOOSIT" system, finding the owner of an animal will be particularly easy as reading the "chip" with the V8BT will provide the phone number(s) of the administrator of the database and/or the owner of the pet.

Naturally, any pet owner who does not wish to use this service can simply enter nothing in the memory area of the chip, as is currently the case.

TIPO	PAIS	ID
FDXB	939	000001426736
TRANSPOND	ER MEMOR	Υ.
NOMBRE		
REALTRA	CE	
TELEFONO		
0033134	61898	

ID number, name and phone number

Iso Chip 11784/85 compatible with the possibility to write additional datas (FDXB)

#### Very important:

If you want to write in the chip, the blocks 3/9/10/11/12/13 (EM4305) or 9/10/11/12/13/14/15 (EM 4569) must be opened.