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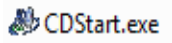
Insert the USB-Flashcard into the USB drive
The explorer opens automaticlly or explore and open the FlashUSB drive and start with **click on.**
Please check your Hardware *(version of Windows and 32 or 64 bit).*
Please check the Administration rights
The installation guide loaded from USB Flash. Select language.
Start with the preinstallation for **HDO driver**.
If **Bluetooth Driver** *for recommended BT1000 USB-stick is available*, start the preinstallation
Connect your HDO with your PC and check if your device could be detected.
Now start the MDSWIN Installation for Windows 10

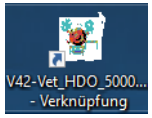
Content of USB Flashcard
HDO Driver
BT Driver
MDSWIN installation
Teamviewer Remote
Manuals
Videos
Papers

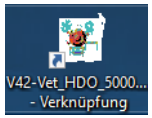


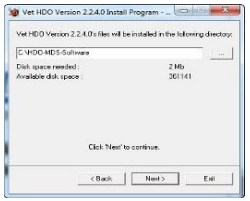
S***tart installation***

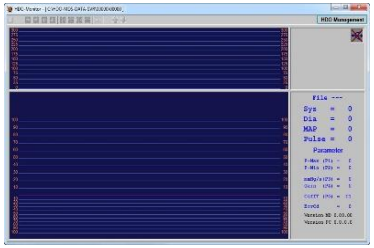
Having completed the preinstallation successfully
-- 1. Driver for HDO -- 2. Driver for Bluetooth *(If HDO is Bluetooth required)* --3. MDSWIN analyse Software
MDSwin 3010TAB for Tablets, Notebooks and monitors with low resolution. Or 3010 for standard PC
Accept the installation "**I agree**".
Accept the Data Directory *C:\ VET_HDO-3010* with "**Next**".
Complete the installation with "Exit".
If the hardware is the first time your system has been connected, Windows will indicate *"new hardware has been found". (no info from WIN 10)*
Follow the windows automatic installation
1. Connect the **HDO** device to your computer, using the USB cable which is provided.
If Bluetooth is provided. The first connection has to be **done with HDO and USB** ! later you search for Bluetooth. *see page 5*
VETHDO 5.0xx ICON. appears at the desktop. Click on VET HDO icon.
MDSWIN Software analyse starts and asking for the data directory
Create your data directory on C: drive
For Server select your server drive. Server needs read and write rights!
Bluetooth installation go *to page 24-26.*

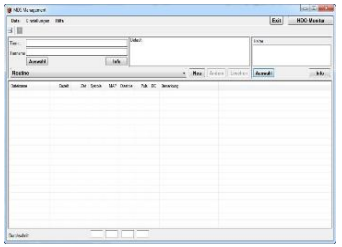
Click on accept !











- Start the VET HDO Analyse Software: click on Icon from your desktop
- Define your own maindirectory *C:\HDO-MDS-DATA (only first time):*
- Computer administration rights are required for the installation
- With the Menu *"Settings"* you can choose

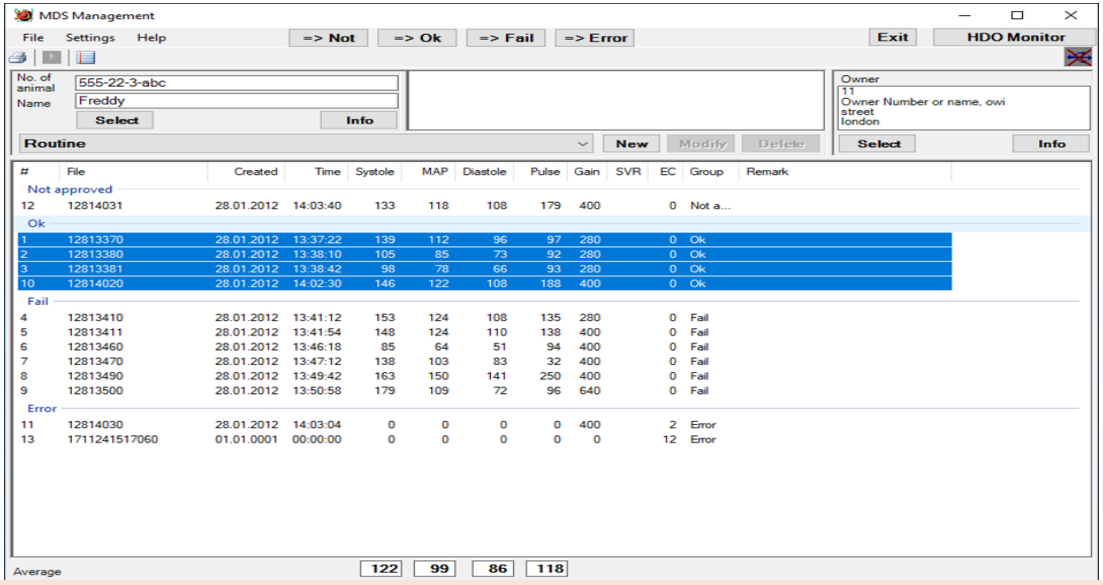
- Standard directory: *C:\HDO-DATA*
- Networkinstallation
- Changing data directory

- Data directory
- Network

- COM= connection to HDO with USB or Bluetooth or BT1000 adapter
- Language= selection of Language
- Data Directory= selection of memory location
- SVR - activation of SVR Analysis (ask your provider for the Key)
- Dview- activation (ask your provider for the Key)

- here is saved all files about costumers, patients and other data
- If you want to install the software in **the network** you have to change the maindirectory.
- Review Computer Network Operation
- The Main directory has to be assignet to your local C:/ or your network drive
- **Network:** All Workstations require the installation of the VET HDO Device Drivers and MDSwin Software. Selecct main directory for each PC

The MDSoftware consists of two components. **Owner** and **Patient** administration and the visual part of the measurement.



PET Owner records File list

Patient records, in relation to owner

Patient records, in relation to animal

Event *(routine)* relationed to a patient

Remarks related to Owner and or Patient

Navigation to Management List *A1 or A2*

Navigation to visual graphic window *click on HDO Monitor*

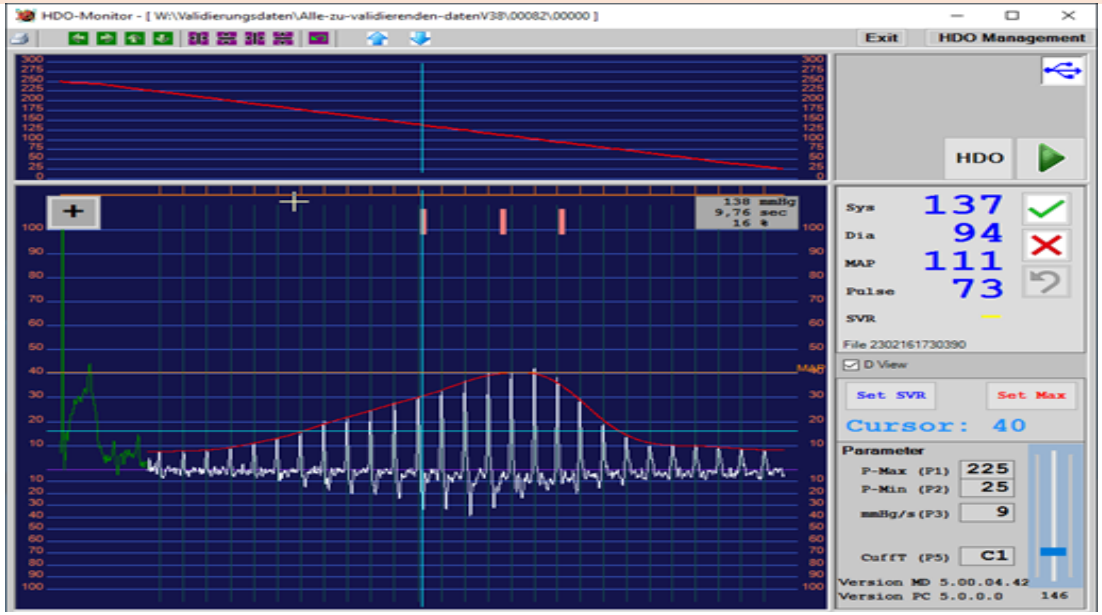
Printout of measurements

Import of measurements from HDO

Exit: close the Software

File: Import, Export, CSV-File for Excel

Average *marked blue*



Visual part of the measurements

Display of USB / BT connection status

Display of HDO button for Parametersettings and Start

Display of linearity

Display of Live measurements

Display of analyzed values

Display of device presetting Parameters

Display if status : not approved - approved - failt – error

Display of graphical visual assessment

Display Cview

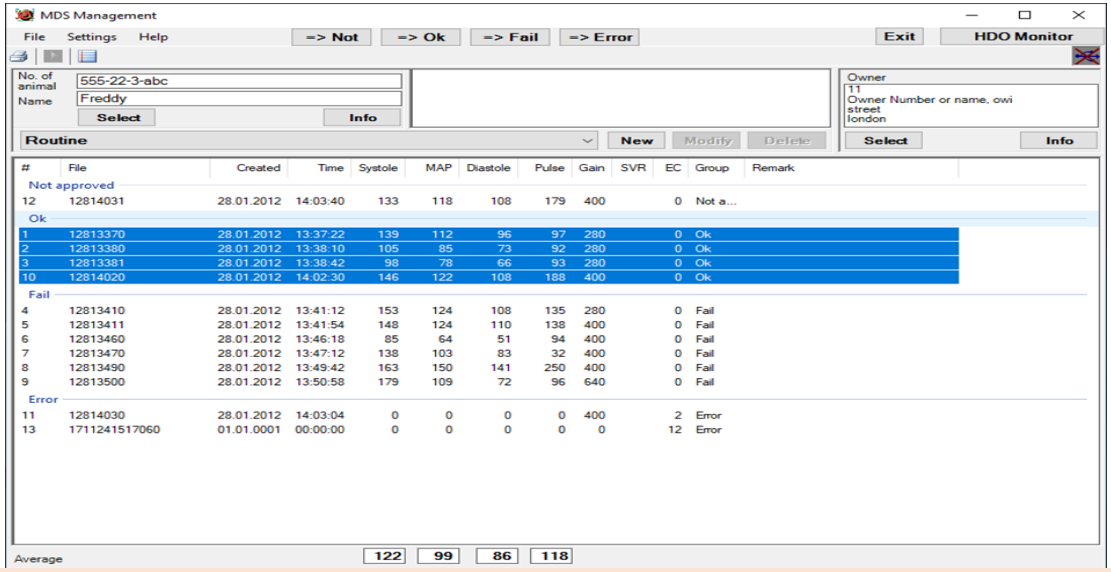
Systole, Dialstole, mittlerer arterieller Druck, Puls, SVR

SET SVR and SET SVRmax and Cursorposition

123mmHg position 12,66sec *(light blue analyse line)*

+ - or small or large illustration

In **MDS Management** your measurements are listet by creating date A1 or Approved quality A2 sorted by status of judgement



Management List A2

selection of not checked- ok- fail- error

the List is sortet by selection

Navigation of Listform

not Approved = still to be checked

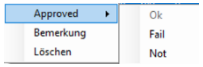
OK = measurement is good

Fail = measurement is bad

Error = system sorts on its own

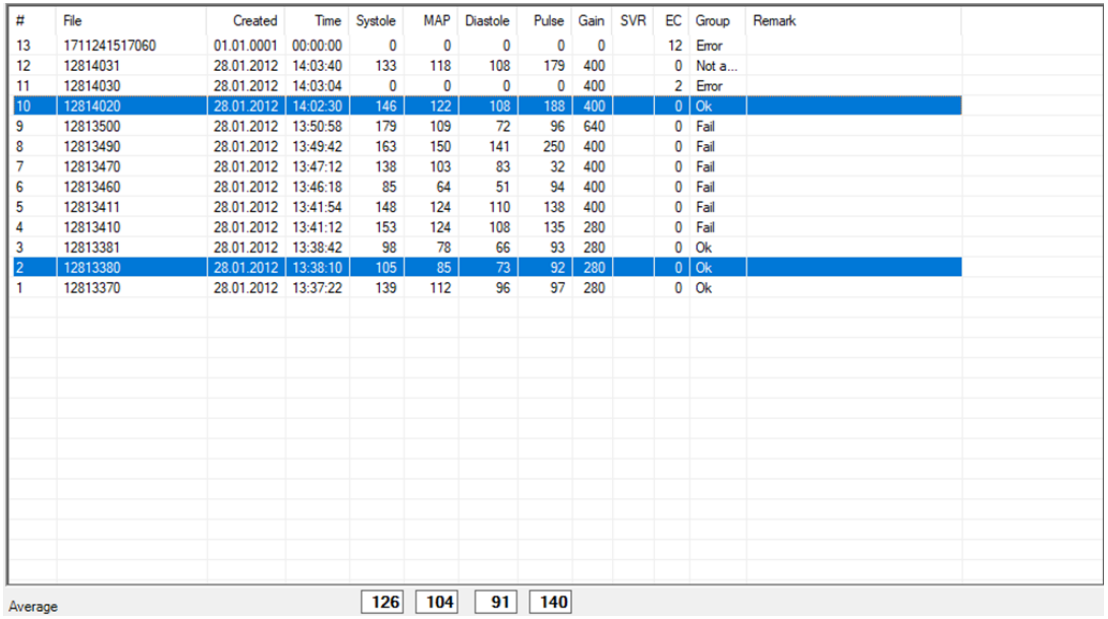
Measurement you can judge the measurement

left mouse click on measurement.



right mouse click for Approval > remarks> delete

average of all *OK* measurements *click on headline OK*



Management List A1

selection by date and course

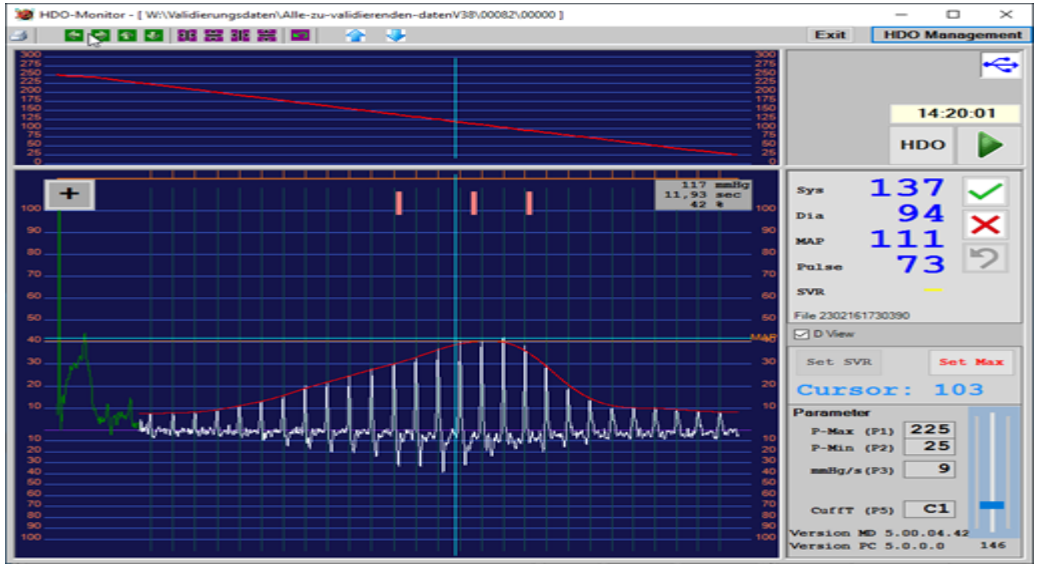
Navigation of Listform

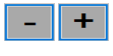
Column *Group* shows status of judgement

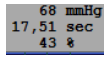
Average display of marked measurements

selection is marked blue

In MDS Monitor the visualized part of measurements







Judgment of Measurement

enlarge, zoom out and reset

examination of linearity

go to next measurement

changes to the rating list

enlarge zoom full grafic

Position of crosshair *light blue*

Amplitude size in %

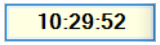
Judgment OK-> Fail ->.Backspace

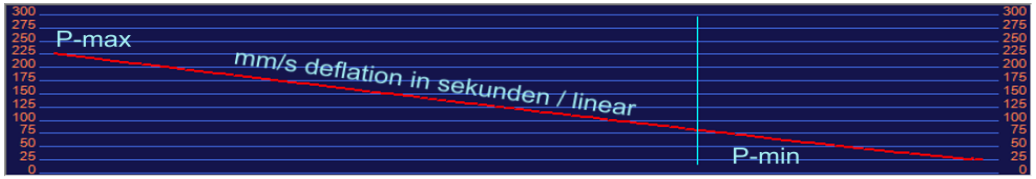
Set SVR Judgment -- Set SVR

Maximum

SVR shows crosshair position *for exsample* Cursor 40%

time stamp





Judgments Parameter and graphic

Pmax inflation 225mHg

millimeter in sec. Pulsadapted deflation

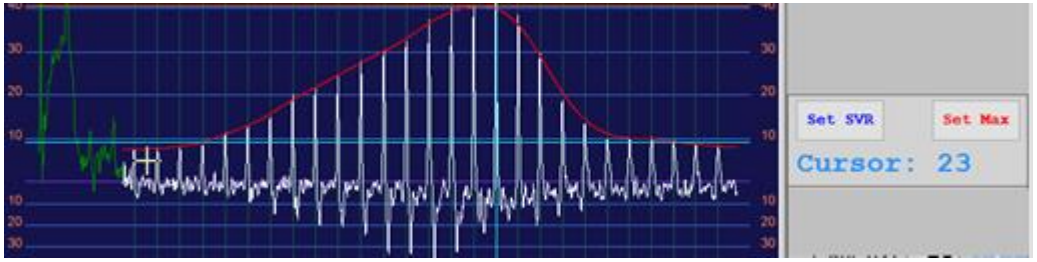
Pmin deflation to 25 mmHg

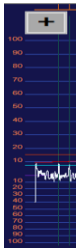
Puls detection ok Rhythm ok

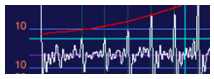
175 -300mmHg

6-*15 mmHg*

10-50mmHg

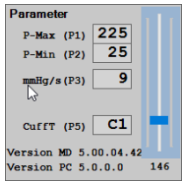






Skala: maximal workload of the amplitudes and pulswaves

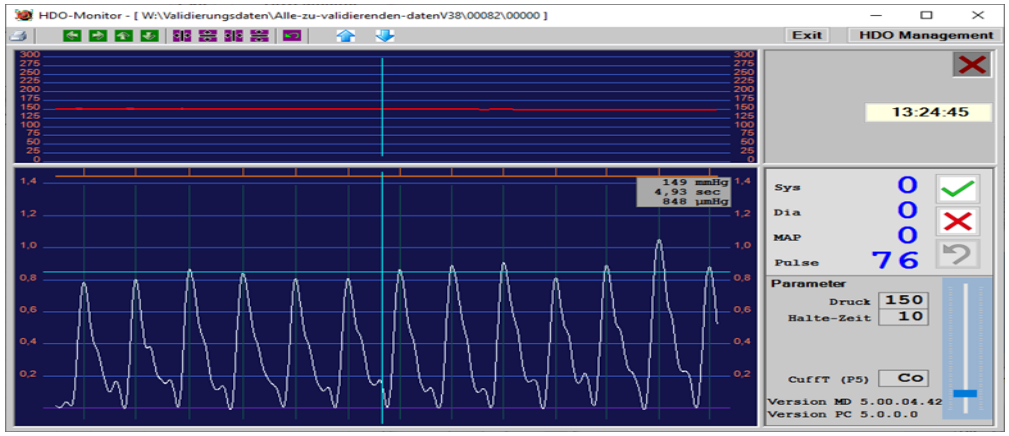
10 – 100 %



Presystolic-offset. *mind. 4 amplitude*

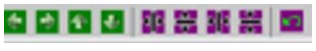
Bell shaped ok

In MDS Monitor the visualized part of constant measurement

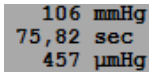


#	Dateiname	Erstellt	Zeit	Systole	MAP	Diastole	Puls	Cuff	Gain	SVR	EC	Group	Bemerkung
22	2302171138320	17.02.2023	11:38:31				78	Co			0	Not a...	
21	2302171136550	17.02.2023	11:36:54				76	Co			0	Not a...	
20	2302171136240	17.02.2023	11:36:23				75	Co			0	Not a...	
19	2302171135420	17.02.2023	11:35:41				76	Co			0	Ok	
18	2302171135040	17.02.2023	11:35:03				82	Co			0	Not a...	
17	2302171134040	17.02.2023	11:34:03				71	Co			0	Not a...	

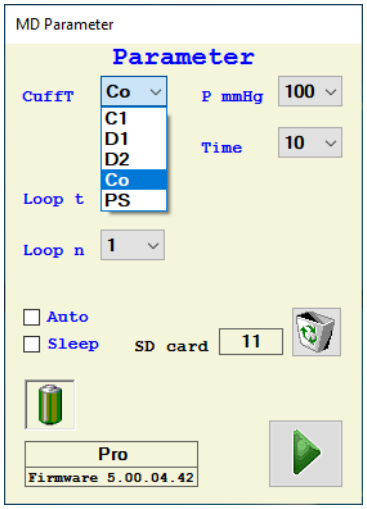
CO measurement is listed with CO and puls

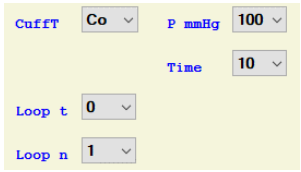


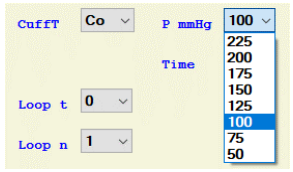
Judgment of Measurement CO
enlarge, zoom out and reset examination of rhythem
go to next measurement

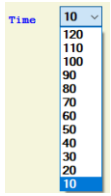


enlarge zoom full grafic
Position of crosshair *light blue*
Amplitude size in µmHg.
Judgment OK-> Fail ->.Backspace
Maximum
shows crosshair position *for exsample* Cursor max amplitude
Constant with 150mmHg, for 10 sec. 868 µmHg Amplitudesize.









1 Select cufftype CO
2 Select P mmHg

Judgments Parameter CO
Judgments Parameter
P mmHg offset 100 mmHg
Higher as systolic pressure

50 mmHg – 225

3 Select Time sec

Time offset 10 sec
Judgments Parameter

10 sec – 120 sec

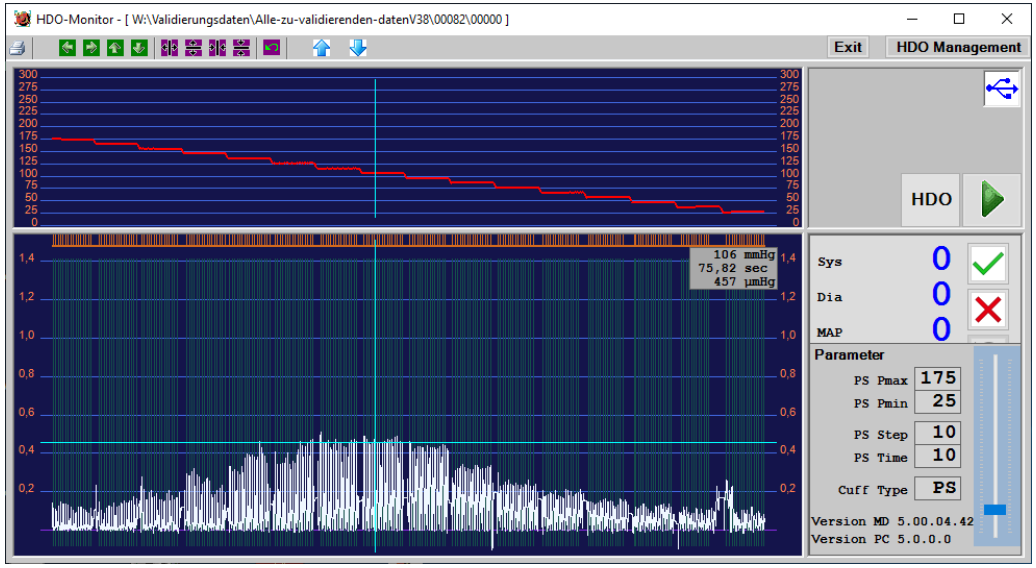
4 select constant loop
Sample:
Loop t = 60 sec
Loop 4 = 4 a‘10 sec
when Time 10 sec
total 40 sec loop plus deflate and inflate are round about 60 sec.

0.1 µmHg – 5000

in mmHg
0.1 mmHg - 5.0

Puls detection ok Rhythm ok

In MDS Monitor the visualized part of amplitude pressure measurements



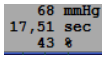
Judgment of **Measurement PS**

enlarge, zoom out and reset

examination of linearity

go to next measurement

enlarge zoom full grafic



Position of crosshair *light blue*

Amplitude size in % or µmHg

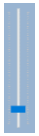
Judgment OK-> Fail ->.Backspace

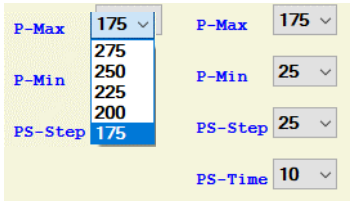
Maximum

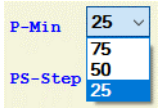
SVR shows crosshair position *for exsample* Cursor max. 105 mmHg

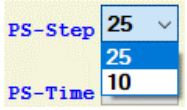
40% or 457 mmHg *Dview*

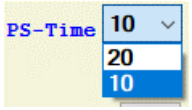
View % / µmHg *Dview is on /off*











Judgments Parameter PS

Pmax inflation 175mHg — 175 -275 mmHg

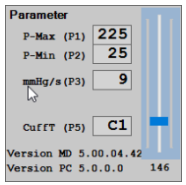
Pmin 25 mmHg — *25 -75 mmHg*

PS-Steps deflation 10 mmHg — 10-25 mmHg

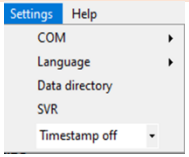
PS-Time hold 10 sec — 10-20 sec.

Skala: maximal workload of the amplitudes and pulswaves — 10 – 100 %

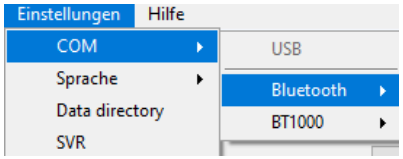
Bell shaped ok



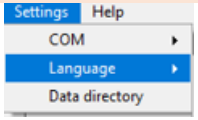
Start the Software with the Desktop ICON goto Settings



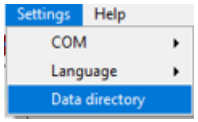
Select the desired connection to the computer see more page 26-27-28

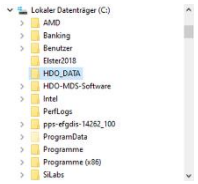


Language selection
Goto Settings and select language.



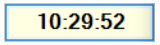
Change main directory:
Goto *Settings* and select Main directory for *Datadirectory*



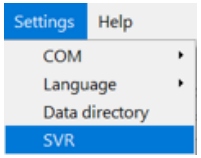


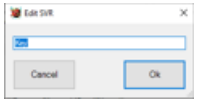
Activate Timestamp *(Eventmarker)*

On /off

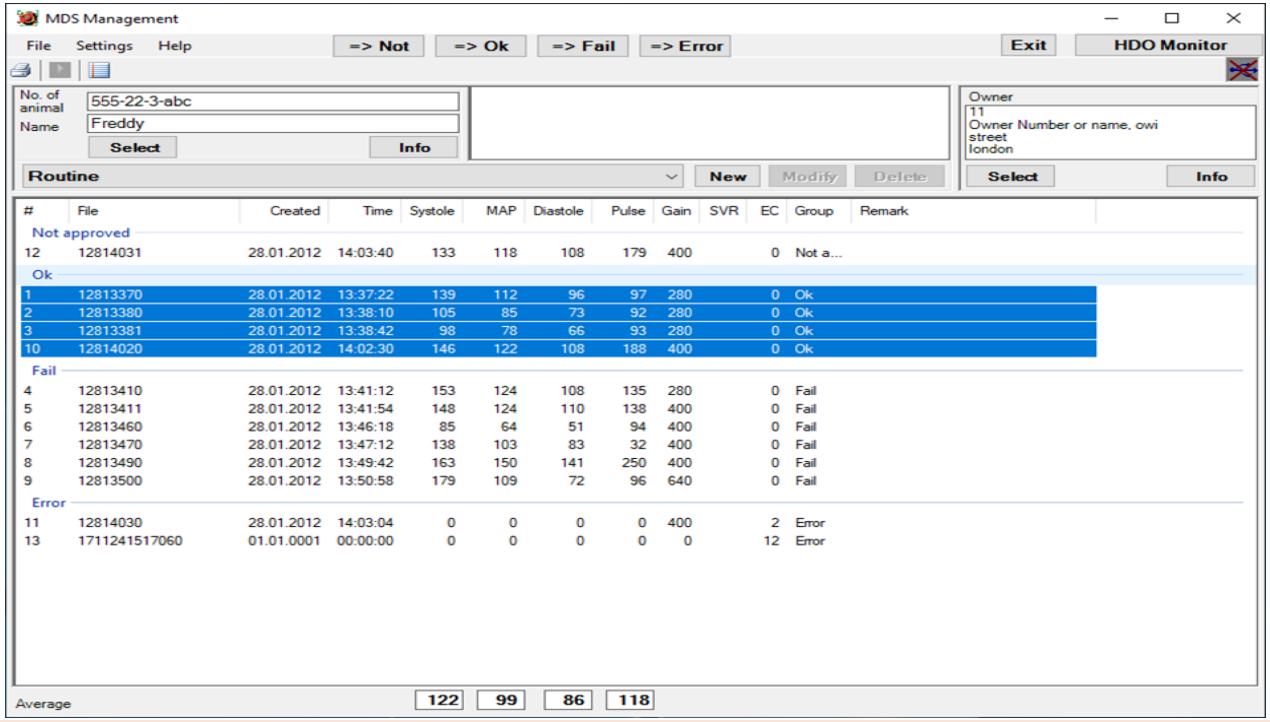


Activate SVR Analyse
Goto *Settings* and select *SVR*
Ask your Provider for activating code
You have to activate only one time SVR
When all settings are placed restart the Software





MDS Management Screen



Exit close the Software
HDO-Monitor Visual measurement *go to HDO*

Display the owner data
Select button Owner- function
for selecting, creating and changing.
Info Informationen about owner

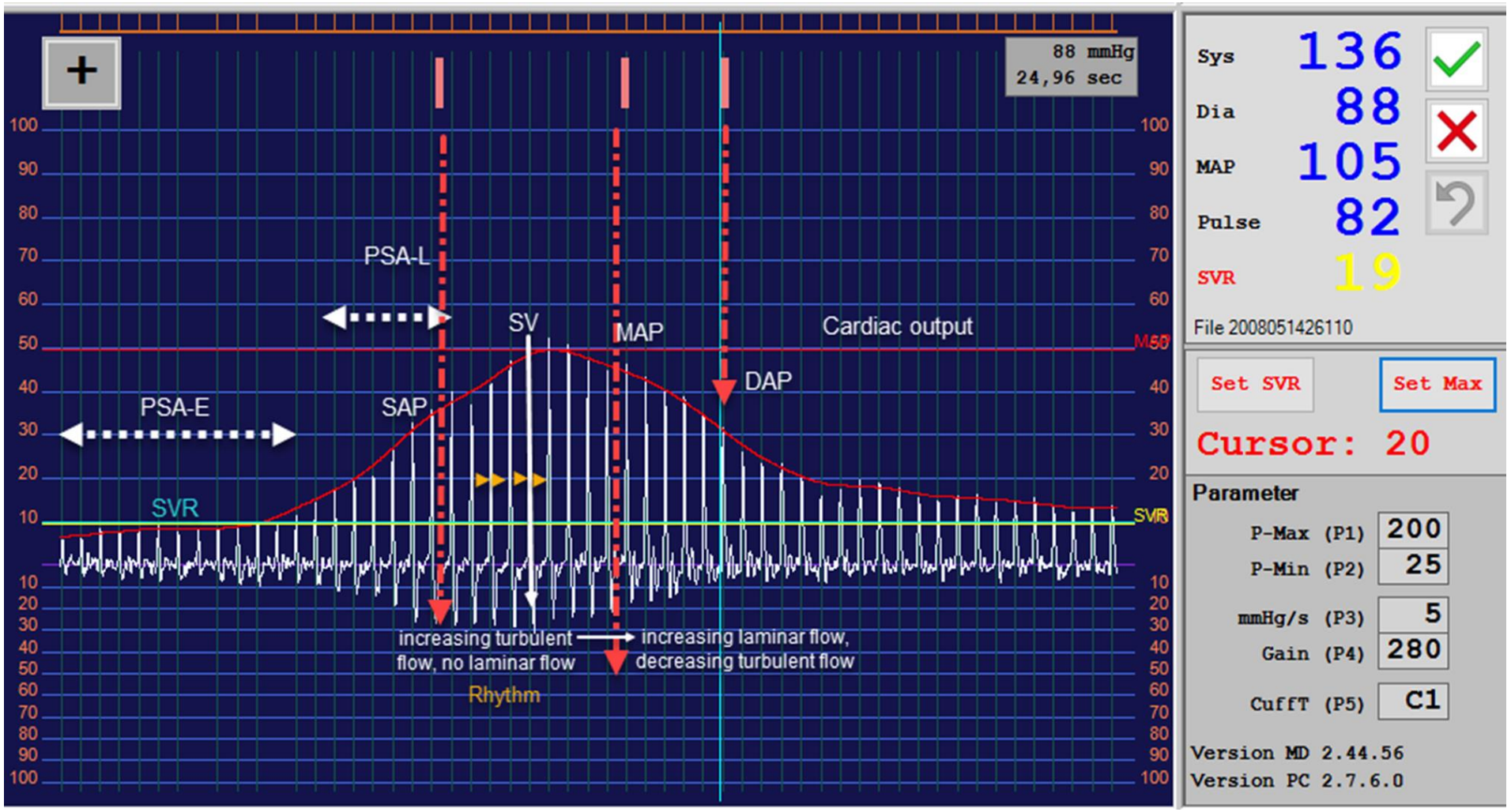
Display the animal data
Select button animal- function
for selecting, creating and changing.
Info Informationen about animal

Display event (routine) for selected animal
Select button new modify Delete
for selecting, creating and changing event
Average *of marked blue*

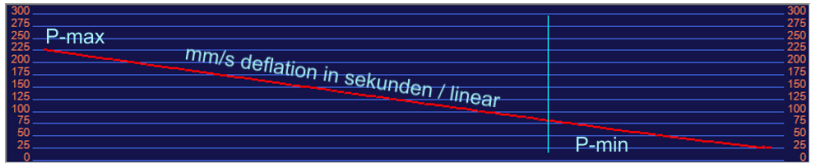
File Import, export, copy, move, print measurement data.
Print Button
Import Measurements from SD Card within HDO Device
Change in list form A1 A2
Display of patient number and name of the patient selected
Select button Patient- function for selecting, creating, changing and deleting patient records.
Info Informationen about patient
Pick event: function for selecting, creating, changing and deleting event records

Display of measurements of the selected patient.

Average of marked measurements
selection is marked blue


88 mmHg
24,96 sec
PSA-L
SV
MAP
Cardiac output
DAP
PSA-E
SAP
SVR
increasing turbulent flow, no laminar flow
increasing laminar flow, decreasing turbulent flow
Rhythm
Sys 136
Dia 88
MAP 105
Pulse 82
SVR 19
File 2008051426110
Set SVR
Set Max
Cursor: 20
Parameter
P-Max (P1) 200
P-Min (P2) 25
mmHg/s (P3) 5
Gain (P4) 280
CuffT (P5) C1
Version MD 2.44.56
Version PC 2.7.6.0

Display linear deflation line: must linear

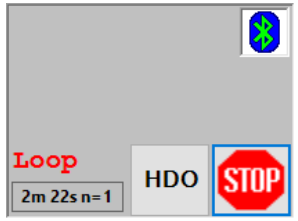


Change in Monitor / Management

Next measurement

Change to the corresponding evaluation list A1 A2

not approved >> OK >>Fail >>Error



Display status USB / BT > Sleep > not connected

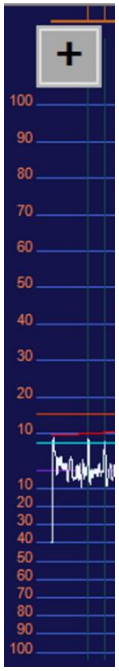
Display „mmHg“ Point of measurement

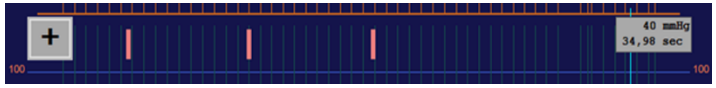
Loop displays time for next autom start

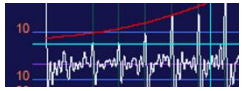
HDO opens Parameter window

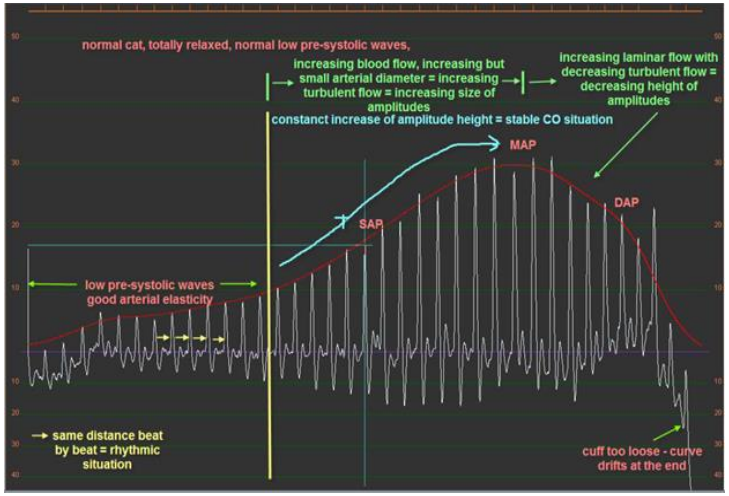
start for measurement

stops measurement





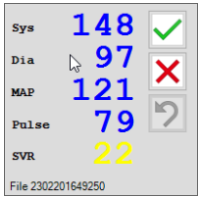




recognized pulses

enlarge/ zoom out /In

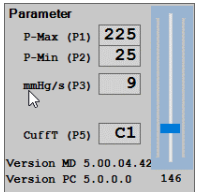
crosshair position on presystolic wave



Display Result Assess series of measurement

Dview activation (ask for activating code)

SET SVR: saves the Measuring position of the crosshair horizontal of pre-systolic peak



Display settings *Parameters* of HDO unit after a single measurement is done.

Slider for view grafic

Option for navigation in Monitoranalyse
Move graphics > horizontally and vertically
Scale graphics > scale up and down / horizontally and vertically

shows grafic of the next measurement from the list

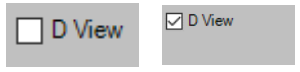
switch between Monitor and management window

Display HDO-MD USB or BT Status > connected > connected but sleepmodus > not connected

Switch to the respective evaluated measurement series
Grafic zoom

The pointer position is at the coordinate *cross light blue* > Position in mmHg / time from the measurement beginning / Amplituden size in Dview % in Amplituden Size µmHg

click on Set SVR button > Saves the horizontal position which was defined by the crosshair position the top of presystolic wave
click on Set Max button > Saves the horizontal position which was defined by the red SVR max line position the top of mean arterial pressure wave define by 100%. *See page 10 screen analyse*



Dview off shows a standard Pulswave analyse
Dview On shows the real amplitude size in mmHg (ask your support for aktivating code)

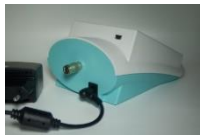
Assess measurement :
Measurement accepted as well > Measurement not accepted as good > Withdraw assessment
opens the parameter window starts a measurement abort measurement

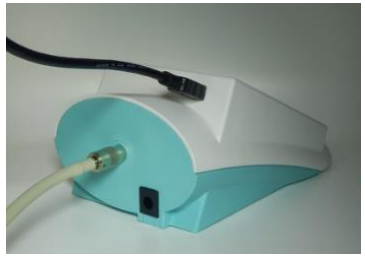
Button for importe VET HDO Offline measurements Printer icon - to start printing

Year 12 month 12 day 03 hour 14 minute 46 sec 43 total reding in 1 min. 0

Start up Hardware for measurement

Hardware

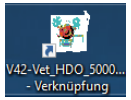




Powersupply Connect HDO with
5 V PWR ***USB_C***
6 V Older version PIN connector
With 5V ***USB_C*** please check
ON / OFF *light green*
Optional for powersupport
4 x AAA 1.5v Battery
Powerbank min. 2600 mAh
Can be charged with HDO PWR
attach the cuff at the HDOl

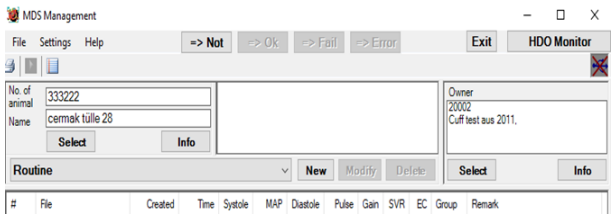
USB 2.0 PC > to mini USB HDO
connection is made to the PC
o***r Bluetooth***
with
recommanded
BT1000

Software



S***tart Software with desktop Icon***

click on button
if loost the BT connection



Check status of the connection

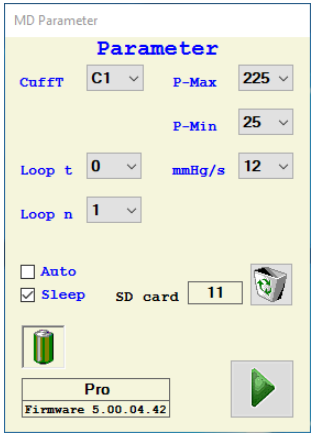
Select Owner

Select animal

Check Event
Routine is the standard

Press START button one time,
you wake up the HDO.

Select cuff with arrow
up or down
Press ENTER to confirm the cuff
C1 cat and small dogs
D1 small dogs > 25 kg
D2 large dogs
H1 for HDO Equine only
H2 for HDO Equine only



Check Parameter

Check if cuff is confirm before by HDO
Start Measurement
or alternative Press START on HDO

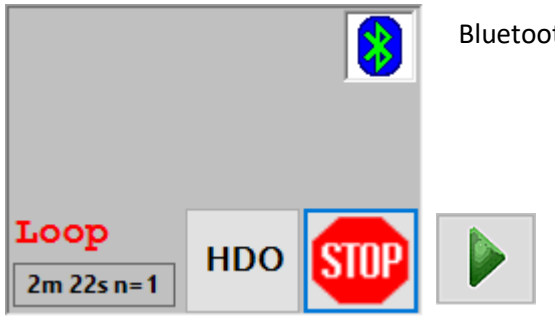
Double check : !

Make sure that cuff is on HDO

selected and confirmed with ENTER

Always remove empty Batteries !

Start up with Parameter window



Bluetooth is active

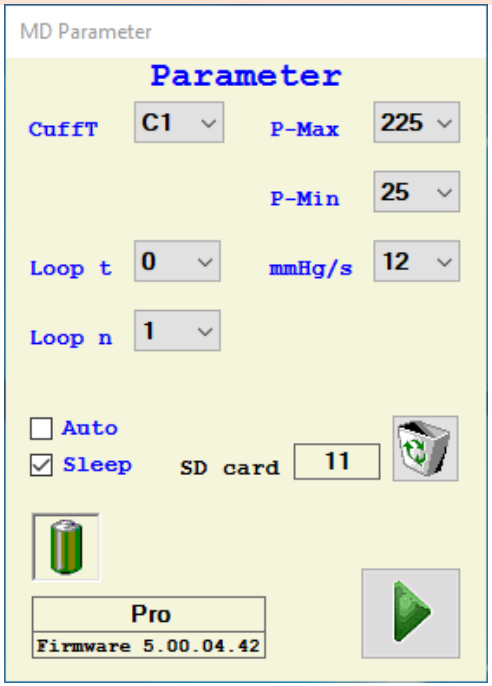
Aktiv Sleep not connected

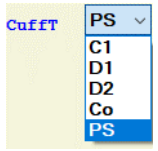
Start measurement

Stop an activ reading

Calling the Parameter window

Loop starts in 2minutes and 22sec. until the next measurement interval

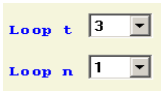




Select cuff type **C1** for Cat - **D1** for small dog – **D2** large dog front limb or **CO** for Constant or **PS** for Amplitude pressure measurement

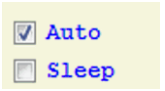
For a standard measurement
Selection to inflate 225 mmHg
Selection to drain 25mmHg

175 / 300
15 / 45



Set Time (t) 3 minutes next measurement in 3 minutes
Set Loop (n) for interval 1 or two measurements after 3 min.
To cancel the Loop, after stop, please reset Loop

t / 0



Tick Auto for first measurement and start with Co measurement
HDO falls after 3.5 minutes in sleepmode

automatic redognize of Frequency Puls and Pulssize.

Delete the measurements on the SD card

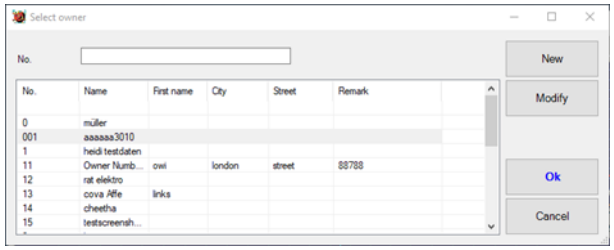
Status battery
Start measurement

NEW: in HDO 5.0 Tick on Auto and start the first measurement as a Constant measurement. HDO recognize Puls frequency and size of Amplitudes automaticly !

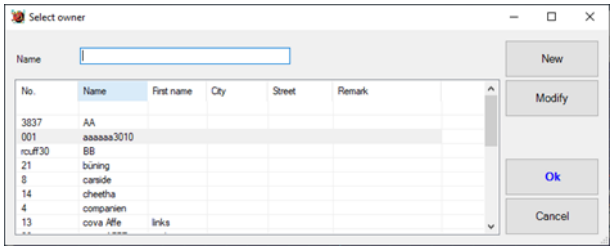
After finishing the first CO measurement HDO switch to a standard Cuffselection for the first measurement. No Gain no Deflationrate had to be set by hand.

Start up with selection or creation of an owner record

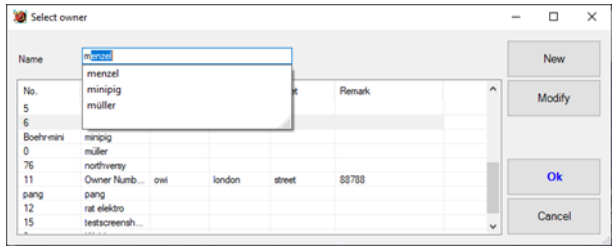
Select, create or change an Owner record in the *MDS Management* window. You can select an Owner, when it has been stored before in the MDSoftware. The owner can be assigned to several animals



sorted by number



sorted by name *highlighted blue*

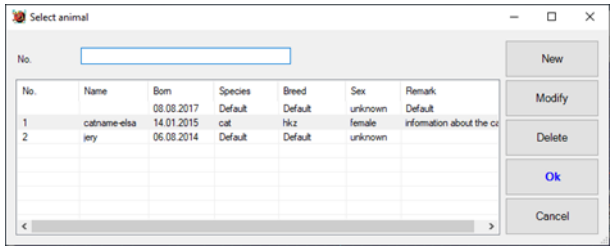


search with matchcode

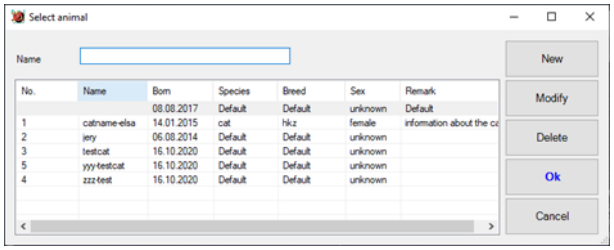
Button Select	Opens the list of owner
Sorted by list	click on No. or name or each other field
Search for	input field with first letter
Create new	*Click* on *"New"* to open the customer data entry form
Modify	*Click* on *"modify"* to open the customer data entry form where you can change any field
TIP	Use the customer ID numbers from your hospital management program.
Select and accept	
	Select the customer from the customer list: the *selection is marked blue*. *Press „Select“* to accept. In combination with "select animal or create new" allows you to select the animals associated with the owner or you can add new animals related to the
Abort	owner.
Select created	Means that no changes are made. The previously selected customer remains selected in the software
Info	Entries are stored. The window closes and you return to the customer list. This is where you select the required owner
	At the field INFO you can save Informations about the owner
	The entries are not stored. No new owner record was created.
Abort	

Start up with selection or creation of an animal record

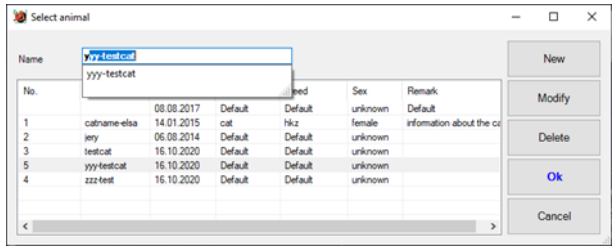
Select, create, change or delete an animal record in the MDS Management window.



sorted by number



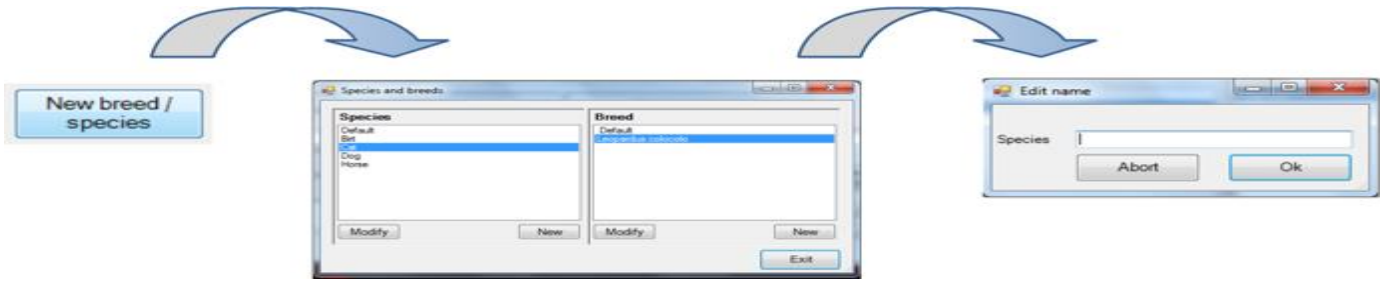
sorted by name *highlighted blue*



search with matchcode

Button Select	Opens the list of animal
Sorted by list	click on No. or name or each other field
Search for	input field with first letter
Create new	*Click* on *"New"* to open the animal data entry form
Modify	*Click* on *"modify"* to open the animal data entry form where you can change any field. Owner selection: You assign an owner to an patient (animal)
TIP	Use the animal ID numbers from your hospital management program.
Species / breed	Opens an entry form for species *(e.g. dog)* and breed data *(e.g. collie)*. You can enter several breeds under one species.
	Select the animal from the animal list: the *selection is marked blue*. *Press „Select"* to accept.
Select and accept	Means that no changes are made. The previously selected customer remains selected in the software
Abort	Entries are stored. The window closes and you return to the customer list. This is where you select the required owner
Select created	At the field INFO you can save Informations about the owner
Info	
	The entries are not stored. No new owner record was created.
Abort	

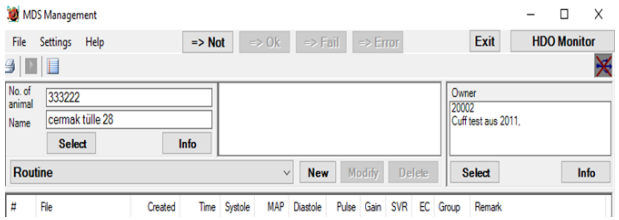
The creation of a species and its related breed. This is only required if the species or the breed does not exist yet as a record

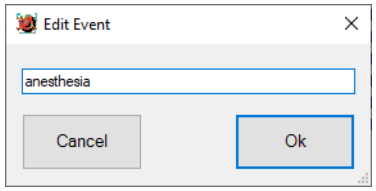


Species	Breeds
Enter or create new species	Opens the list of new breeds/ species The *species / breed* administration panel opens. You can enter a new species or change the name according to the button selected.
Create new	*Click* on *"New"* to open the Species entry form.
Modify species	Click on and select the correct species *selection is marked blue*, press *“modify”* and assign the name and press *“OK”*
Enter new species	Click on *„exit“.* The species is stored and ready to be selected.
Enter or create new **for breeds**	Select species *selection is marked blue* You see all breeds created and assigned to the species. Click on “new“ in the breed window to assign a new breed.
Modify breeds	Click on and select the correct breeds *selection is marked blue*, press *“modify”* and assign the name and press *“OK”*
Enter new breeds	The newly created breed is now found in the breed list and can be selected in the drop-down field and be assigned to the animal.
Exit	Click on *„exit“* the window closes

Creating a measurement series EVENT

The *Event* (measurement series) allows for a specific evaluation and documentation of situations. e.g. It may be of interest to do routine measurements and or monitoring of anesthesia and to be able to assess case histories on the basis of readings.





Creat new Event

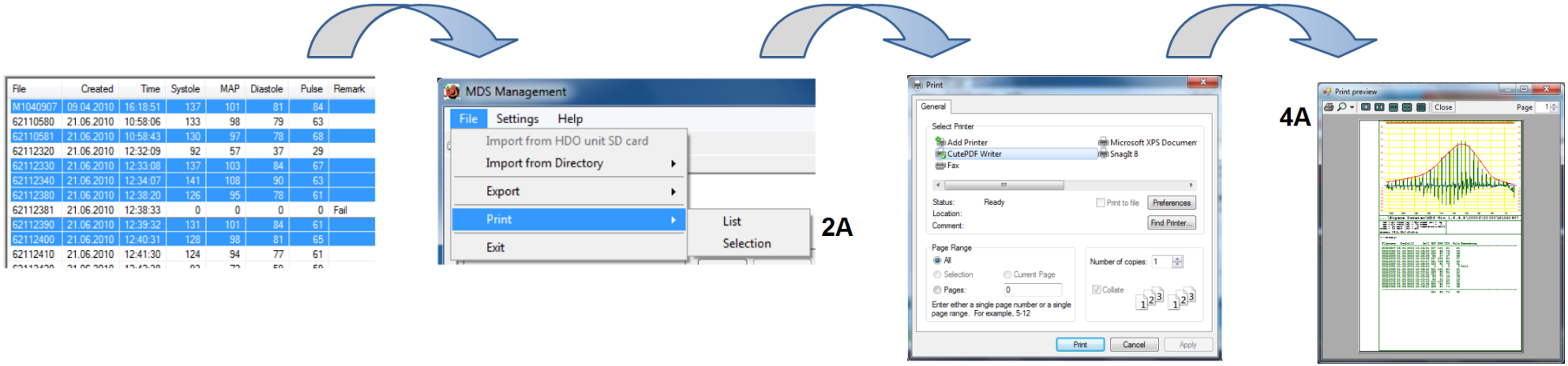
Select event

You can create or modify Events or continue adding measurement data to an existing serie

Select	Click on Pulldown e.g. *"Routine"* and select the *Event.*
Create new	Click on *„new"* A new window opens where you can assign a new event name. Enter with *"OK"*.
Modify	Click on *„modify"* A new window opens where you can assign a new name to an existing event. Enter with *"OK"*. The existing readings will remain with the new event name.
Delete	When deleting the Event, all measurements in that series are deleted. Click on *"YES"* to confirm deletion. Use *"NO"* to cancel the deletion.
Attention	In case, your data will be permanently lost !

Print measurement graphics or list

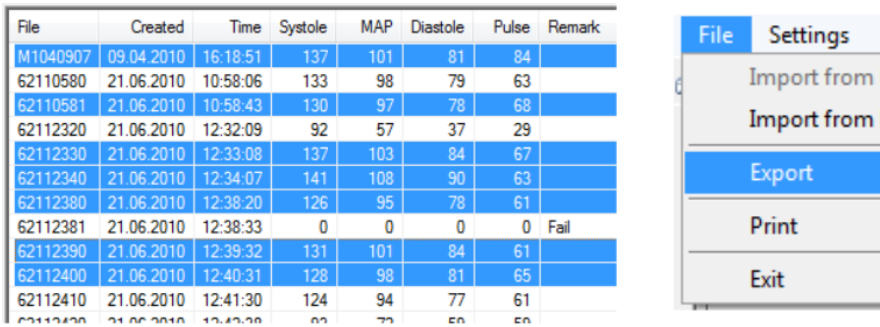
There are two modes of printing. One is simple text printing of measurement data *listing*, the other is a print of mesurement *graphic/s* . Data from an *Event* or series of individual measurements can be selected*selection is marked blue* and printed.



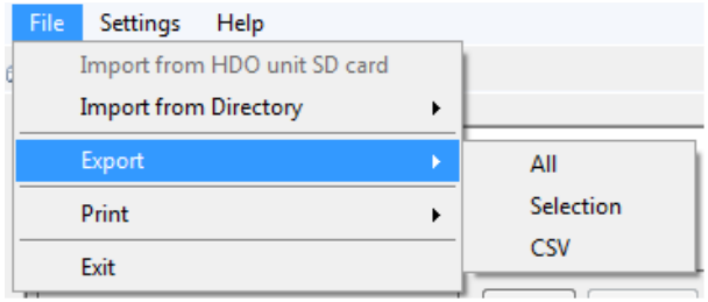
Selection of the measurement/s	Selection of the measurements to be printed from the list of measurements. *The selection is marked blue* Use the mouse button to mark the measurements you want to print. Keep the Strg or the Shift depressed to mark the data and click on the required measurements. The measurement marked last is rendered graphically.
Undo the selection	Click once more on the measurement *the selection will be removed*.
File / Print	After marking the measurements click on file >> *print. Then you can release the function key*.
Graph / Print	Select the kind of printing, either list *listing* or selection *graphics*
printer selection	The printer selection window opens where you can choose your printer for printing the measurements.
printout preview	The printout preview of the page is generated.
Print	Click on the printer icon of the print preview to start printing.
	Use a virtual PDF Printer system for printing PDFs *(for saving files to management software).*
	We recommend „PrimoPDF“ or Cut Writer“ Software (Shareware).

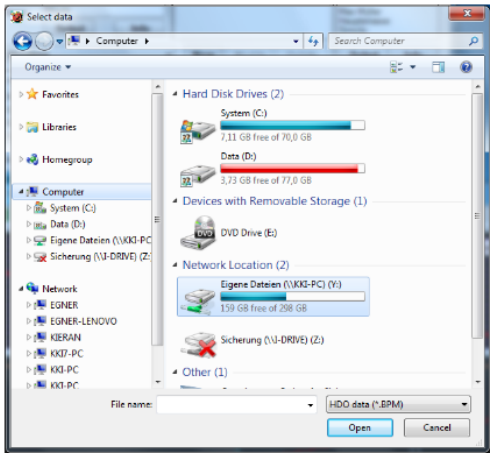
File and Data export

Data export is provided for medical support / telemedicine. You can select an *Event* and export *all selected measurements*.



File	Created	Time	Systole	MAP	Diastole	Pulse	Remark
M1040907	09.04.2010	16:18:51	137	101	81	84	
62110580	21.06.2010	10:58:06	133	98	79	63	
62110581	21.06.2010	10:58:43	130	97	78	68	
62112320	21.06.2010	12:32:09	92	57	37	29	
62112330	21.06.2010	12:33:08	137	103	84	67	
62112340	21.06.2010	12:34:07	141	108	90	63	
62112380	21.06.2010	12:38:20	126	95	78	61	
62112381	21.06.2010	12:38:33	0	0	0	0	Fail
62112390	21.06.2010	12:39:32	131	101	84	61	
62112400	21.06.2010	12:40:31	128	98	81	65	
62112410	21.06.2010	12:41:30	124	94	77	61	





Selection of the measurement/s

Undo the selection

File / Export

Select Directory

Confirm selected Directory

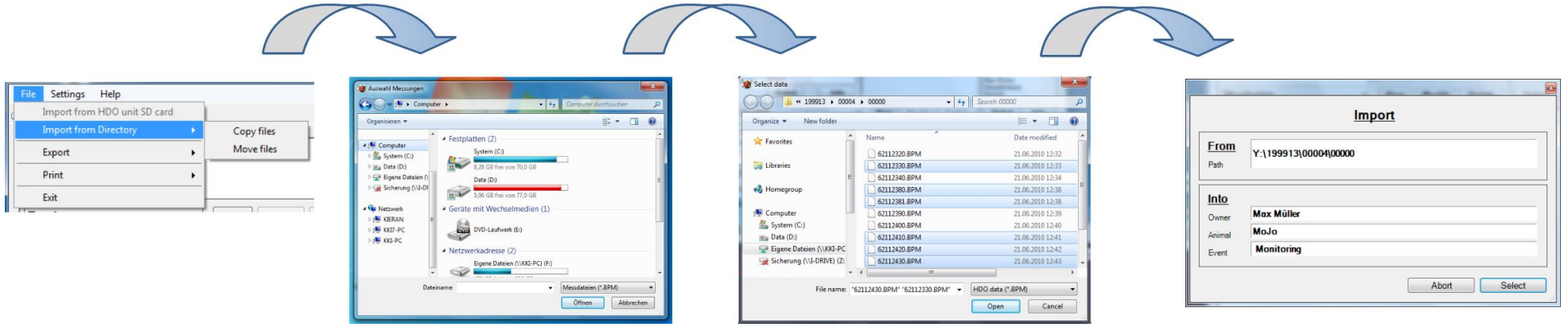
Selection of the measurements to be exported from the *list of measurements. the selection is marked blue* Use the *mouse button* to mark the measurements you want to export. Keep the Strg or the Shift depressed *to mark the data* and *click* on the required measurements.

Click once more on the measurement *the selection will be removed*

After marking the measurements click on file >> export. Then you can release the function key.

The target window opens for the export destination.

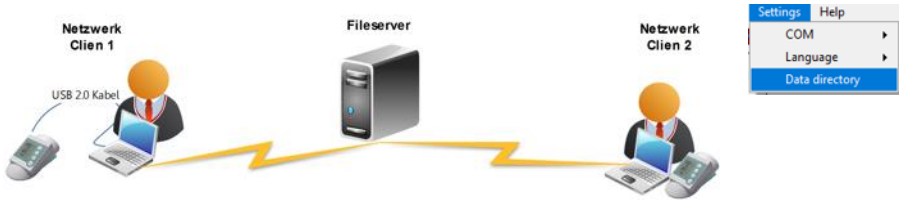
Select the required folder and confirm with *OK*. *The selection* *is marked blue*



Enter or select owner > animal > event	if none exists (owner and animal must exist or must be created before event!).
Connect	HDO to PC with the USB-cable or activate the BT with start the HDO unit.
Enter or create new	The related *owner >> animal >> Event*, or create a new one.
	The import symbol appears and *"import from SD card"* is an active option in the pull-down file menu. Select either option to begin import.
Transfer window	Import measurements
View and select	*„Total"* shows how many of measurements are stored in the HDO MD Device.
Select	*Click* on the *„Import"* button to import the selected measurements into the selected
Import	*Owner >> animal >> Event.* On completion, the window closes automatically. The import does not delete the measurements from the HDO device. *Refer to the HDO device manual for how to delete from the HDO device.*
	A maximum of **60** measurements are stored (without a timestamp) in the HDO MD device !
Tip	

Computer network operation

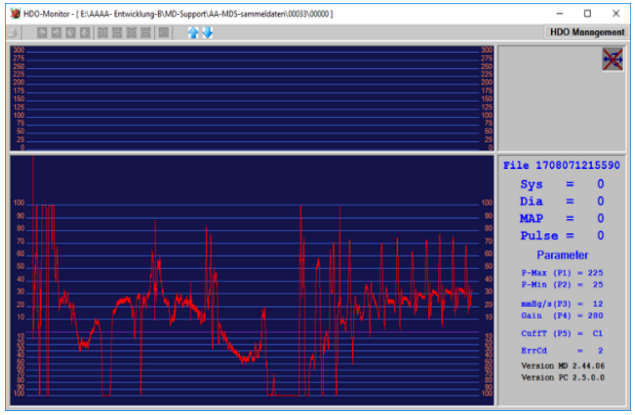
The software allows you central data administration and to use several computers in different locations for measurement operations. You must have to set up a network for this purpose.

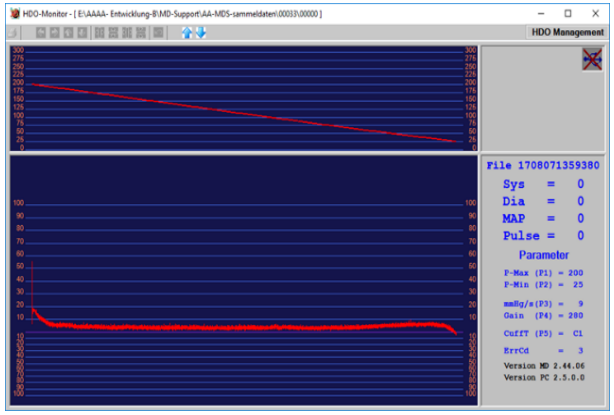


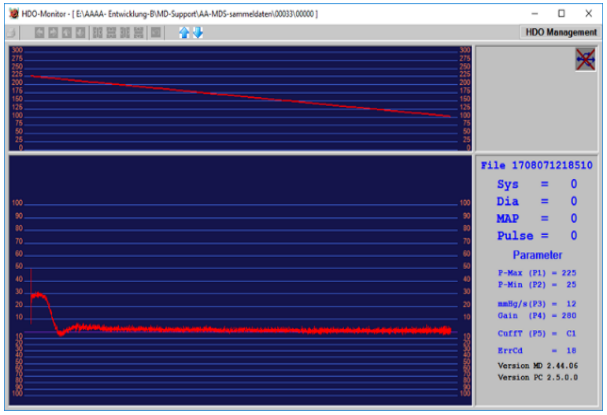
Network computer having access to released network resource (read-write rights)
Prerequisite:
Up-to-date software condition Framework 2.0
Installation of HDO MD drivers at all Workstations
Access to released network resource
Access to MDSoftware-exe on the file server

Server, NAS
network computer with released network resource
Prerequisite:
Released main directory (Root) of the MDSoftware.exe

Network computer having access to released network resource (read-write rights)
Prerequisite:
Up-to-date software condition Framework 2.0
Installation of HDO MD drivers at all Workstations
Access to released network resource
Access to MDSoftware-exe on the file server







Error 2 Too many artefacts

calm the animal

observe sourroundings

position cuff at tail

E1 Abbort by the user

E2 Too many artefacts

E3 Amplitude of the signal is too week

Error 3 Amplitude too small > check cuff:

too tight

too slack

raise GAIN

E4 Deflation rate is too slow

E5 No cuff attached

E6 Cuff is too loose or wrong cuff or cuff is leaking

Error 10-19

Check USB Cabel

Check Bluetoothadapter

Check Batterypower

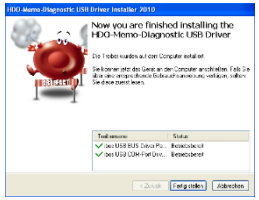
E7 Error in analysis

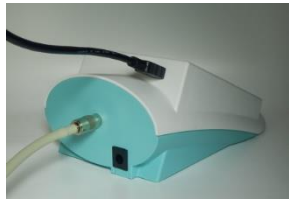
E8 Abbort by the device

E9 SD card error

E10 File read error

With a PC connection,you can control and regulate the HDO from the PC such as start/stop funtion or changes parameters. For the communication options we need a driver installation which is discribed below. For typs of connections, please do not use the same USB port.
The VET HDO/MDSWIN installation card appropriate the drivers for USB and BT1000: They are pre-installed at first! Administration rights are required!



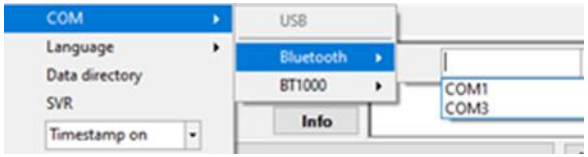


Selection A: USB	Selection B: PC-Bluetooth	Selection C: BT1000-adapter Silicon Labs
If you are using USB: please disconnect the **BT1000** adapter and restart the software.	If you are using BT please disconnect the **USB cable** and restart the software.	If you are using BT1000 please disconnect the **USB cable** and restart the software.

It must necessarily be connected to the USB cable to complete the hardware installation (device discovery)! MDSWIN before the start!
The installation routine asks you at a time, when the active hardware to connect to the USB.

HDO MD - Device driver expected	For foreign manufacturers is the driver to install vendor-specific and can be done before / after the installation MDSWIN Software.	There are pre-install the drivers. Starting MDSWIN and perform settings on the BT-allocation as follows.

When selecting your connection with a built-in PC-BT and or standard external BT adapter should be prerequisite knowledge of the system. It is not possible for us to document all known and unknown BT adapter and system settings in our manual. Ask them to your system administrator.
firstinstallation: its needed that the HDO is connected with the USB cabel at first



Selection B: PC-Bluetooth

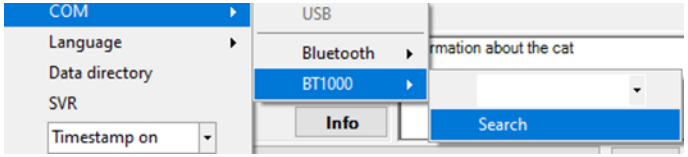
New installation:
Install Drivers
Connect HDo the first time with USB cable

General Procedure for BT external systems
Prerequisite: you have already installed a software for Bluetooth connections. The HDO has been successfully connected to the USB cable and once detected the hardware in the system.
Alternatively, use commercially available external BT adapter and software.
1. Starting the BT software
1.1 The HDO BT device must be switched on
2. Search Bluetooth connections
3. HDO xxxx (serial number) are found, add devices
4. Right mouse click: display the COM port
After a successful BT involvement in your system
GOTO Settings
COM Einstellungen/Settings > COM > Bluetooth > COM
Accept: the system-detected COM xx

(MDSWIN installation USBflash included in delivery) during the initial installation will be actively connected to the USB on the computer to recognize the new hardware must be after the pre-installation of the hardware drivers. You will be prompted in the installation routine.
The VET HDO/MDSWIN installation card appropriate the drivers for USB and BT1000 : They are pre-installed at first ! Administration rights are required!

HDO must be on

BT1000 adapter for PC

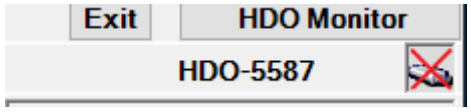


Selection C: BT1000-adapter Silicon Labs

Loosing BT connection when

1. Low Battery
2. Problem with USBport PC side
3. Connect and disconnect when Software is running.

Reconnect after power off



Click on button HDO-5587

Approach with BT 1000

Prerequisite: successful installation routine is to have completed.

Administration rights are required.

The HDO has been successfully connected to the USB cable and once detected the hardware in the PC system!

Connect the BT 1000 into a USB port.

GOTO Settings >COM BT1000 >Search

The HDO must be turned on!

After a successful search

(HDO display with serial number) and show *ready*.

Confirm the detection with ***Connect***.

Click on button ***Close*** to close the search window.

It will give them the e.g. HDO-2363 for selection

mark it blue 2363

Click in a **blank area** to the selection window to close.