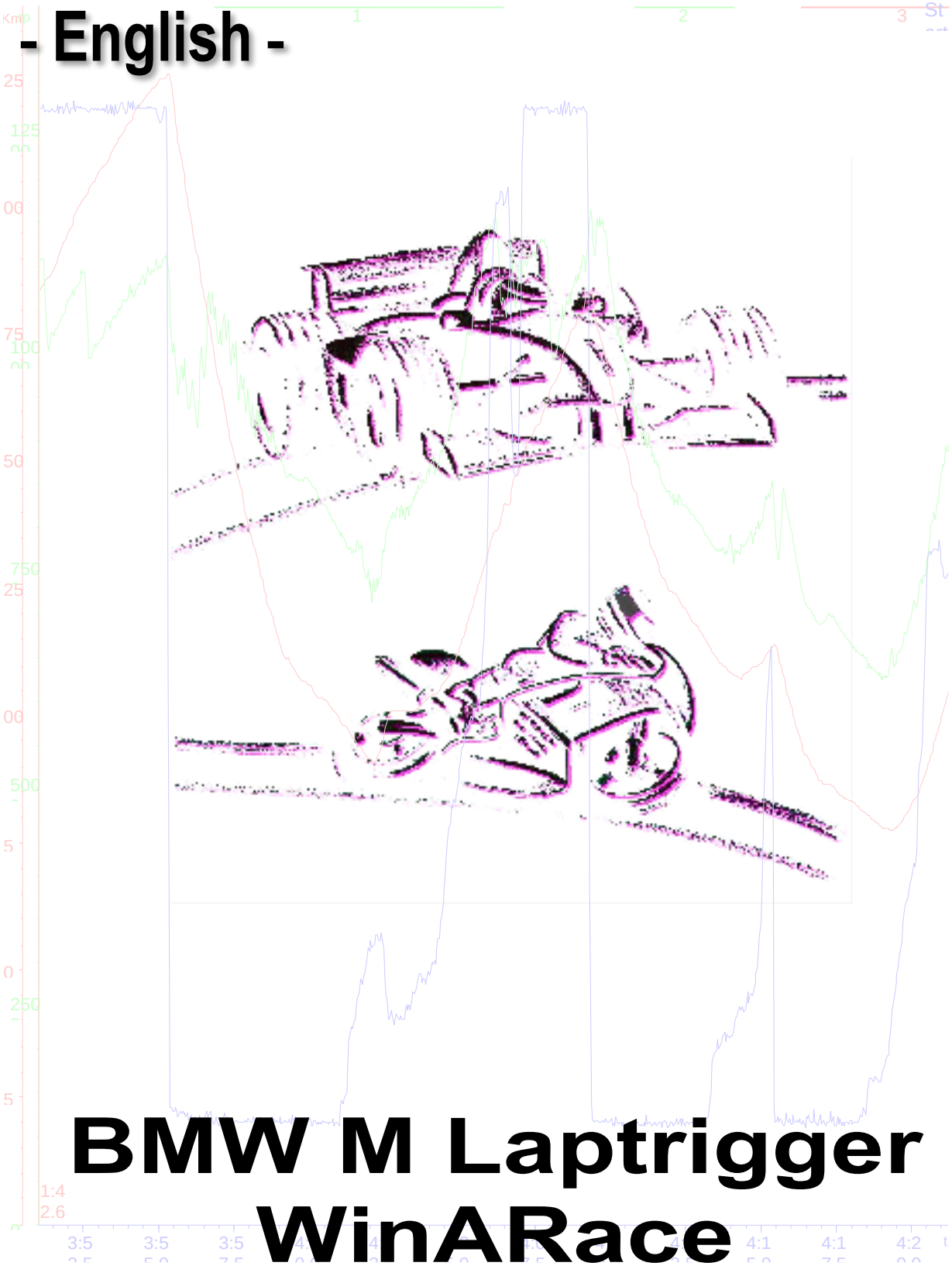
2d-datarecording.com

- English -



BMW M Laptrigger WinARace

modified 08/12/20

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Symbols used in the text

These paragraphs contain tips and practical advice for working with the 2D software

In the paragraphs highlighted with this symbol, you will find additional information and it is very important that you follow the instructions given.

Documentation reference

- A user manual reference number is provided so the user can seek further assistance

1 Introduction to WinARace

The program *WinARace* is the front-end tool of 2D. From here you can start other software modules, like *WinIt* (communication tool), *SpecView* (data administration) or the analysis tool *2D Analyzer*. It organizes the folder structure of your data with events and master names.

In *WinARace* you are able to:

- Define and change the current *Event*
- Select the start measurement for the analysis tool
- Start the *2D Analyzer*
- Select the master name
- Start a download
- Start *WinIt*
- Set the software language
- Select the user level
- Set some important communication settings (same window as in *WinIt* – main menu item “Settings” ⇒ “Options”)
- Activate/deactivate the protocol function
- Configure the 2D Toolbar
- Get version information of the various software modules

2 WinARace and its functions

You can split up the starting window of *WinARace* into five sections (refer to the next figure)

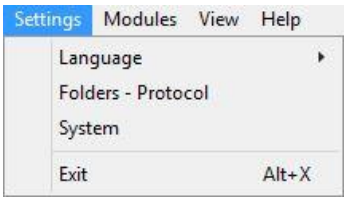
1) Main menu
2) Event section
   Event/measurement administration
3) Logger section
   Logger communication
4) Measurement naming
5) Analysis section
   Measurement selection & analysis

2.1 Main menu

The main menu consists of four submenus:

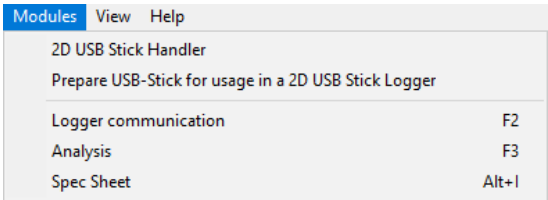
- Settings
- Modules
- View
- Help

2.1.1 Settings menu



- **Language:** here you can select the language you want to use in your software; German, English, French, Italian, Spanish or Japanese[1]
- **Folders – Protocol:** opens a window where you can check the folder structure and the protocol function of the software
- **System:** opens a window where you can change some system-settings, please refer to section 3.1
- **Exit:** closes the program

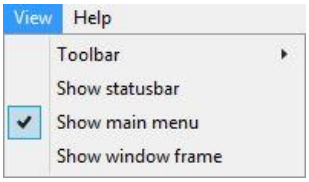
2.1.2 Modules menu



- **2D USB Stick Handler:** starts the program *2D Stick Handler* to manually download recorded data from a connected 2D/USB stick[2]
- **Prepare USB stick for usage in a 2D USB Stick Logger:** prepares a USB stick; such a prepared USB stick is called a 2D stick[2]
- **Logger communication:** starts the program *WinIt*
- **Analysis:** starts the program *2D Analyzer*
- **Spec Sheet:** starts the program *SpecView* and shows the selected measurement´s data

[1] Please keep in mind that you need a Windows with Japanese language to show the characters correctly.
[2] Please refer to section 3.1 if this function is not available, there it is described on how to activate it.

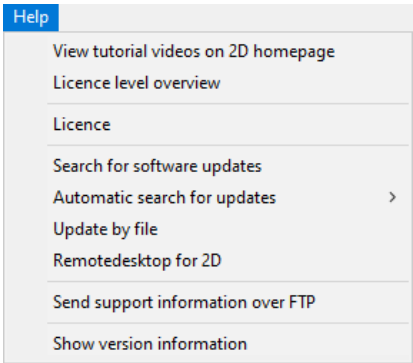
2.1.3 View menu



- **Toolbar:** here you can decide whether you want to see the toolbar or not and you can modify your toolbar; for further information refer to section 3.2
- **Show statusbar:** shows or hides the status bar
- **Show main menu:** shows or hides the main menu
- **Show window frame:** shows or hides the window frame

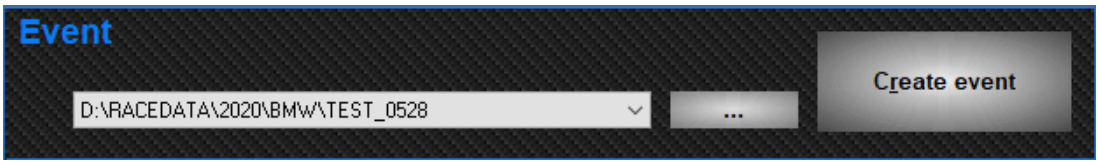
You have always access to the main menu of *WinARace*: right-mouse click on the *WinARace* window opens the main menu.

2.1.4 Help menu



- **View tutorial videos on 2D homepage:** opens the 2D homepage where you can see the tutorial videos
- **Licence level overview:** opens the 2D homepage with an overview of the license levels and their functions
- **Shortcut keys:** opens a table with shortcut keys and their meaning
- **Licence:** opens the software license dialogue; there you can enter the license key
- **Search for software updates:** searches online for software updates
- **Automatic search for software updates:** settings for automatic software updates
- **Update by file:** In some companies connection to the internet for update is not possible due to security settings. In this case it is possible to get an update file from 2D and import it with this function.
- **Remotedesktop for 2D:** Support tool to give the 2D support the possibility to remotely connect to your computer – you will be requested by the 2D support to start it.
- **Send support information over FTP:** sends an information file to 2D with license and firmware update notifications
- **Show version information:** your software version and license

2.2 Event section



An event is the directory where your measurement´s data is stored. It helps you to organize your data. Normally you create an event for each race weekend (or other kind of event you´re attending). It can be named as you want, for example the circuit or name of the event. Please refer to sections 3.3 and 3.4 for further information.

In the *Event* section you can create a new event or change the current event in two different ways.

To create a new event click on <**Create event**>.

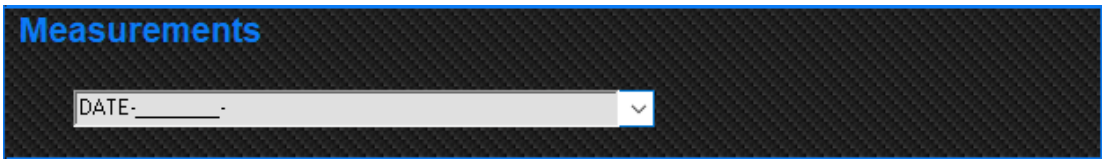
The first way to change the event is to select a directory directly from the drop-down list. There you can choose from the last eleven directories used. The second way is to load a directory from the event explorer. To start the event explorer click on < **…** >. Select a new directory in the tree view on the left and confirm the directory with <**OK**> - afterwards the directory is displayed in the history list.

For further information on how to create an event, the versatile functions of the event explorer and the data structure in general please refer to section 3.

2.3 Logger section

By clicking on the button <**Communication (F2)**> the program *WinIt* starts. In *WinIt* you can change the setting of your logger and other system parts. For further information please refer to the *WinIt* manual[3]. As this logger is a BMW defined system many parameters are fixed and not changeable.

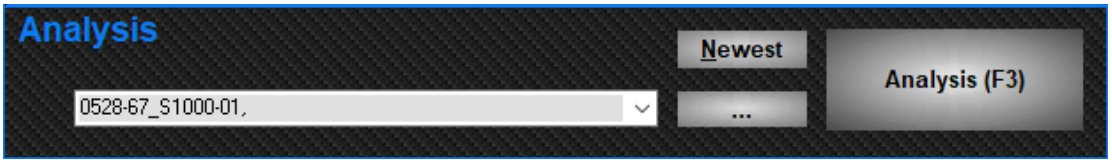
2.4 Measurements section



In the *Measurements* section you select the data´s master name and download the recorded data directly from a connected logger.

The master name is part of the data file name. It helps you to identify more easily the session (free practice, qualifying, race, test,…). The drop-down list contains up to 9 different (last used) master names. You can simply select one of them or enter a new one (depending on your license level). For further information on master names and the nomenclature of the data please refer to section 3.5.

2.5 Analysis section



In the *Analysis* section you have three different options to select a measurement you want to start with in the analysis tool *2D Analyzer*.

1. You can select a measurement from the drop-down list. It is a history list of the eleven last used measurements of the current event.
2. Select the newest measurement of the event with the button <**Newest**>.
3. By click the button < **…** > you can select a measurement of the current event in the file explorer.

To start the *2D Analyzer* click on <**Analysis (F3)**>.

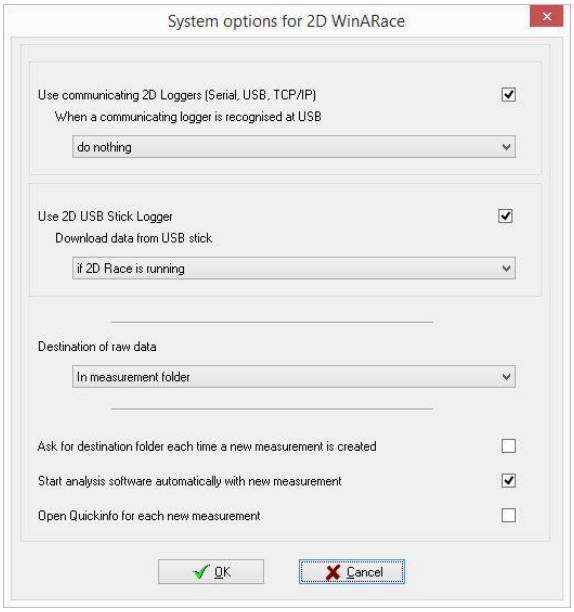
For further information please refer to the *Analyzer* manual[4].

[3] The manual can be downloaded from: 2d-datarecording.com/en/support/downloads/manuals ⇒ WinIt
[4] The manual can be downloaded from: 2d-datarecording.com/en/support/downloads/manuals ⇒ Analyzer

3 Detailed information on WinARace functions

3.1 System Settings

You get to the System Settings via *WinARace*, Settings ⇒ System.



Here you can enable/disable the use of the different ways to handle the loggers. “Communicating 2D Loggers” means any logger you connect directly to your PC (via USB, TCP/IP, etc.). In addition you are able to select what should be done if such a logger is connected: do nothing, start a download or start *WinIt*.

If you enable “Use 2D USB Stick Logger”, you activate all software modules you need to handle the USB sticks with – to prepare them for recording or to download recorded data. In the dropdown-list you can select when the data should be downloaded if a stick with recorded data is detected: not automatically (you need to start the download manually), always or only if *WinARace* is running.

In the next dropdown-list you can modify the settings for the raw data.

At the bottom you have additional options on what should be done if data is downloaded.

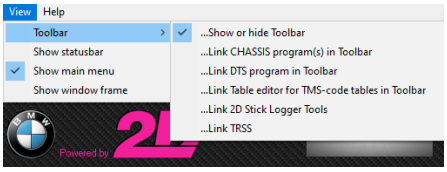
Confirm your changes with <**Ok**>.

3.2 Toolbar

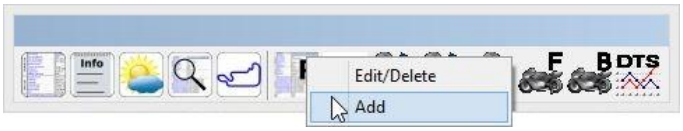
The *Toolbar* enables quick access to other programs or documents. At the beginning there are often several programs and documents already linked in:

There are two ways to modify your toolbar:

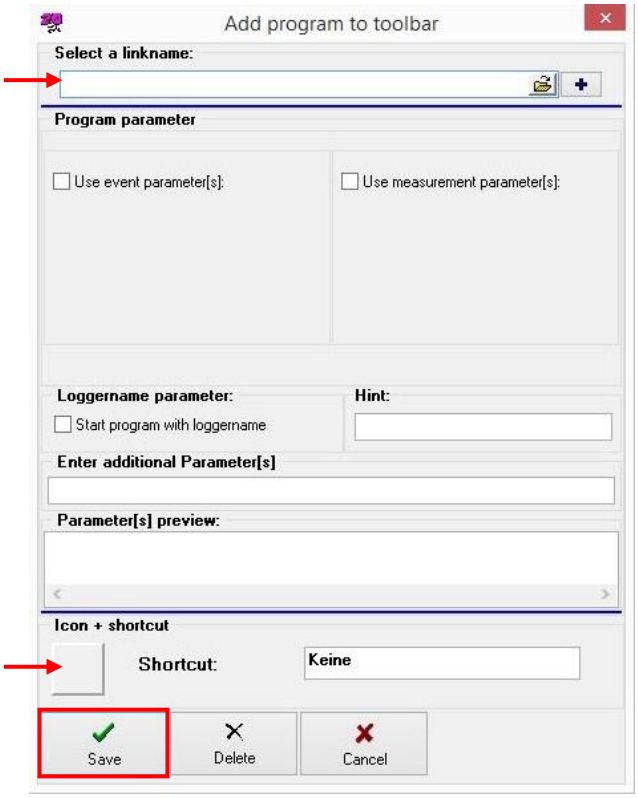
1. Add default programs via the toolbar menu – *View*, *Toolbar* ⇒ <**… Link XXX**>



2. Right-mouse click on your toolbar



– If you choose <**Edit/Delete**> you can modify or delete some of the toolbar entries.
– If you choose <**Add**> you can easily add another entry: Select the program/document you want to add, an icon (.bmp or .ico-format) and confirm with <**Save**>.



Typical icons used in the toolbar are:

Starts SpecView

Opens a window to enter information on the selected measurement. It will modify the corresponding SpecSheet.

Opens a window to enter information on the weather condition

Starts a SpecSheet search

Opens a window with the race track of the selected event

Opens the permanent SpecSheet

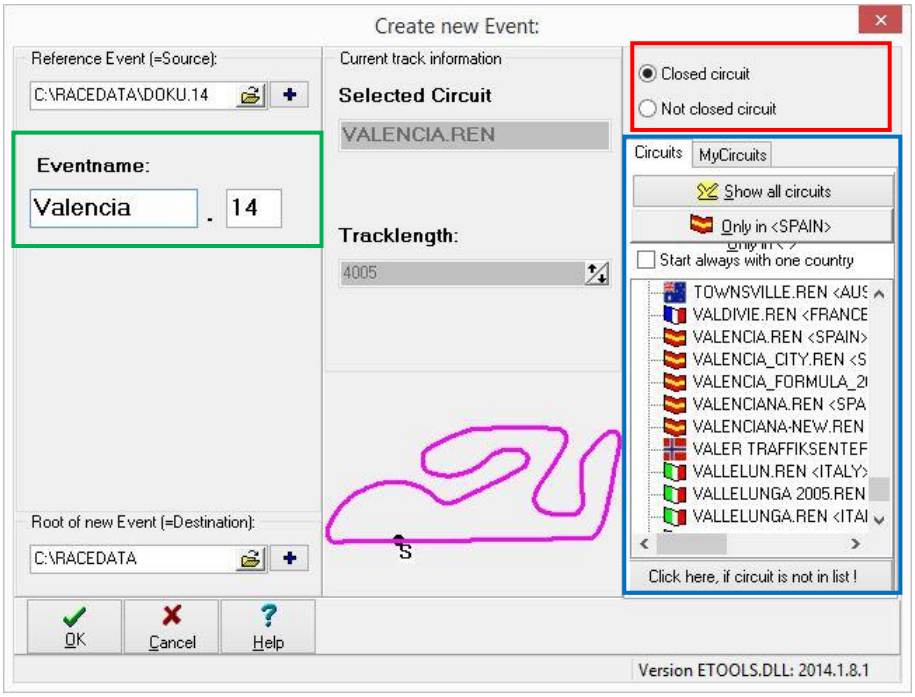
Starts the program *WFormel*

For working with the TRSS

Opens a linked PDF file

3.3 How to create an event

To create an Event click on <**Create new event**> in *WinARace*. It opens the following window:



1. Select on the right-hand side if it is a closed circuit or not (marked in red)
2. Select a racetrack if it is a closed circuit (marked in blue)

There are two different circuit tabs:

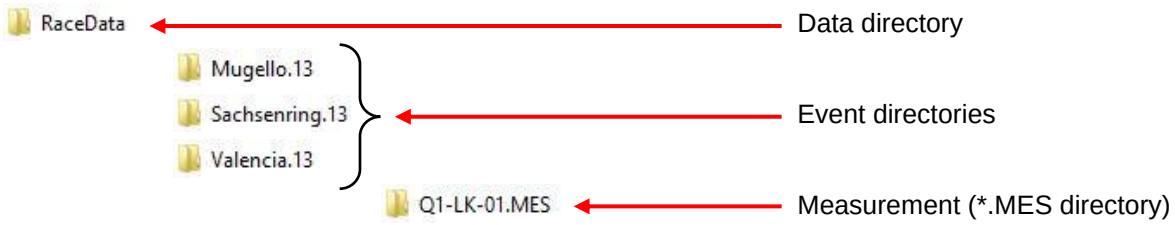
1. The tab **"Circuits"**: Includes a list of **pre-defined tracks** delivered with the 2D race software.
2. The tab **"MyCircuits"**: Contains track maps which have been **created by the user** via the analysis tool *2D Analyzer*.

If a track is not listed, select <**Click here if circuit is not in list**> and a basic circuit will be selected *(Base.ren)*.

3. Enter a name in the field "*Eventname"* (marked in green)
4. Confirm your event with <**OK**>

3.4 General data structure of measurement data

All measurement data are stored in the *RaceData* folder (e.g. *C:\RaceData*). In this folder you can find your events. Every single event contains information about the particular racetrack and the measurement data.



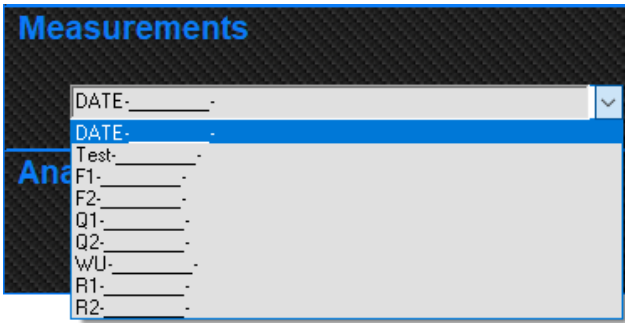
3.5 Measurement nomenclature (master names)

The measurement´s name consists of three parts – the master name, (part of) the logger name and the number of download.

For example:

Q1-LK-01.MES	⇒	master name: Q1 (qualifying 1) logger name: LK number of download: 01 (first download)
Test-CC71-03.MES	⇒	master name: Test logger name: CC71 number of download: 03 (third download)
1126-AL22-05.MES	⇒	master name: DATE (date of data download, e.g. 26.11.) logger name: AL22 number of download: 05 (fifth download)

Some of the default master names are:



- F1- (Free Practice 1)
- F2- (Free Practice 2)
- Q1- (Qualifying 1)
- Q2- (Qualifying 2)
- WU- (Qualifying 2)
- R1- (Race1)
- R2- (Race 2)
- Test- (Test)
- DATE- (current date information)

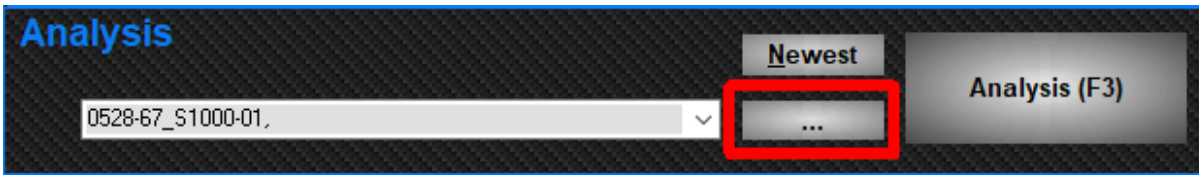
"DATE-___-" is a special master name. It is used to create measurement names containing information about the date when the measurement was downloaded. The software replaces the part "DATE" of the master name by the month and day at which the measurement was created. The format is MMDD, which means the first two characters are replaced by the month and the next two by the day.

The number of underscores (_) specifies how many characters of the logger´s name are taken to create the file name (starting at the end).

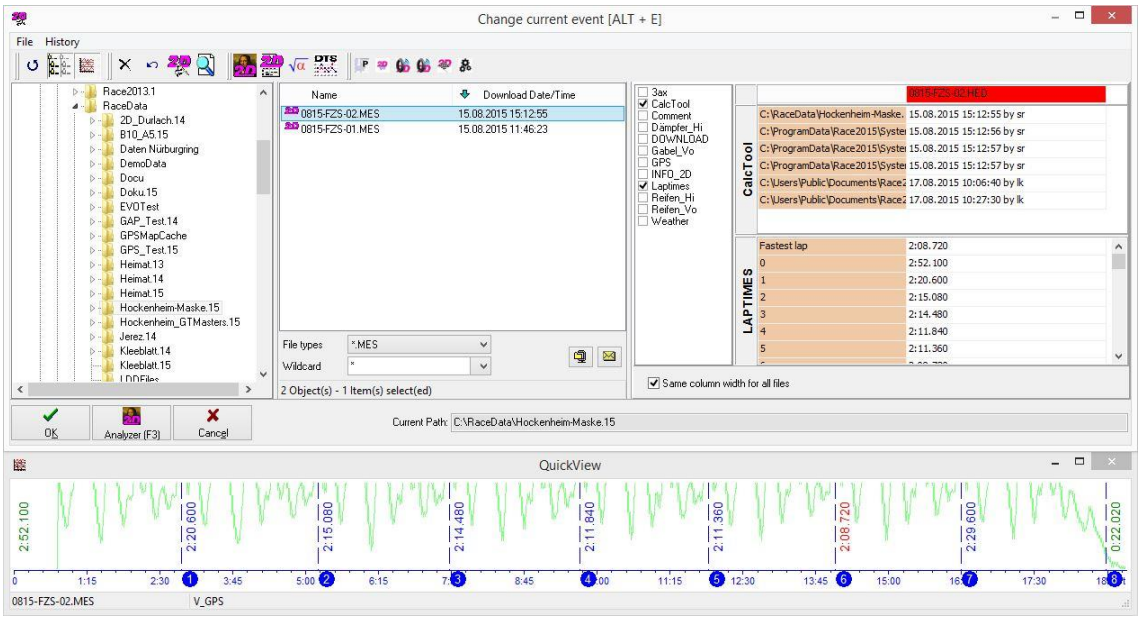
Depending on the license level of your software you may specify your own master names.

3.6 Event selecting – the 2D event explorer

Within the 2D event explorer you can select an event or change the settings of its measurements. To start the event explorer click on < **…** > in the Event section.



The event explorer offers various options:



At the top of the event explorer you´ll find:

- File:
- ⇒ Copy selected measurement(s)
- ⇒ Delete measurement(s)
- ⇒ Rename measurement(s)
- ⇒ Run cal file
- ⇒ Execute programs from the 2D Toolbar
- History

As icons at the top:

- Refresh tree and view list
- Show/hide directory tree
- Show analysis overview window
- Deletes selected measurement(s)
- Rename selected measurement(s)
- Start CalcTool and use cal file from event folder
- Search and replace channel names into 2D measurements
- Start Analyzer with selected measurement(s)
- Start SpecViewer with selected measurement(s)
- Start formula editor with selected measurement(s)
- Starts program DTS with selected measurement(s)
- Linked programs from the 2D Toolbar

On the left side you´ll find the directory tree, in the middle there are the measurements listed of the selected event and on the right side you can have a look at the SpecSheet of the selected measurement. At the bottom there are buttons to confirm your selection (<**OK**>), start the *2D Analyzer* or Formula program and cancel the selection. Below that there is the overview window.

3.6.1 Analysis overview window

You can select the shown channel by right-mouse-click on the analysis overview window.

3.6.2 Check and change the current measurement formulas – the formula editor

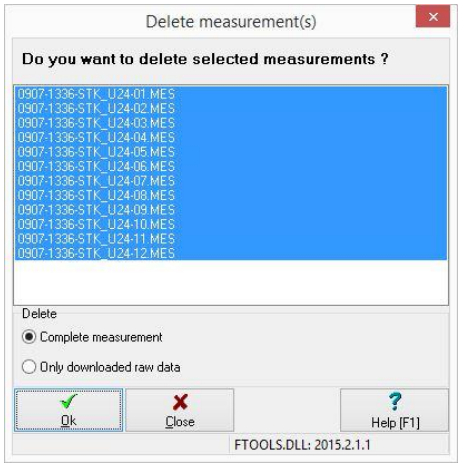
The 2D formula editor is a special part of *WinIt*. With this editor you can comfortably check and change the current formulas of each 2D measurement. The formula editor grabs special files which belong to each 2D measurement.

Within the 2D event explorer you can select the measurements you want to modify and start the formula editor. The editor displays all formula files (of each selected measurement) in the left tree view. You can recognize the several channels (different sensors) of the measurements.

Confirm your changes with <**Apply**>.

3.6.3 Deleting measurements from the current Event

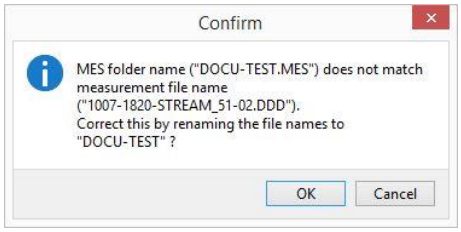
Within the 2D event explorer you can select the measurements you want to delete and click the corresponding button in the toolbar (or right-mouse-click and select “Delete measurement(s)”). You will get the following window:



There you can decide between the options to delete the complete measurement or only the downloaded raw data. Confirm your decision with <**Ok**>.

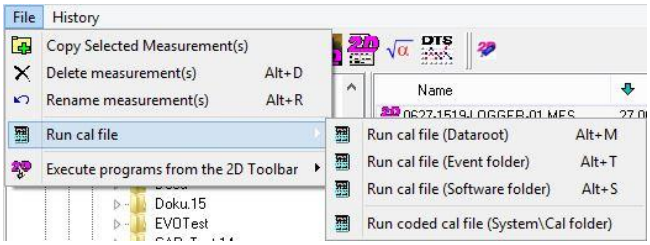
3.6.4 Renaming measurements

It is recommended to rename the measurements with the function “Rename selected measurement(s)” as it renames all files inside the measurement´s folder. If a measurement is renamed within the normal Windows Explorer, the file names are not matching the measurement´s name. The 2D event explorer is able to recognize this mismatch and gives you an info message about it. Confirm this message with <**Ok**> to rename the files.



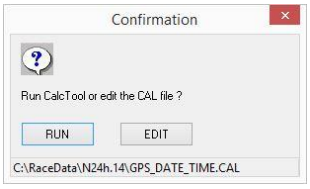
3.6.5 Starting the program CalcTool with selected 2D measurements

If you want to start the program CalcTool via the event explorer, you will get four different options to run cal-files:



1. Start the program CalcTool with selected measurements and using any cal-file (by selection) from the data root.
2. Start the program CalcTool with selected measurements and using any cal-file (by selection) from the current event folder.
3. Start the program CalcTool with selected measurements and using any cal-file (by selection) from the software folder. This folder corresponds with the sub-directory called “Cal” located in your current Race-version.
4. Start the program CalcTool with selected measurements and using any coded cal-file (by selection) from the software´s “Cal” folder.

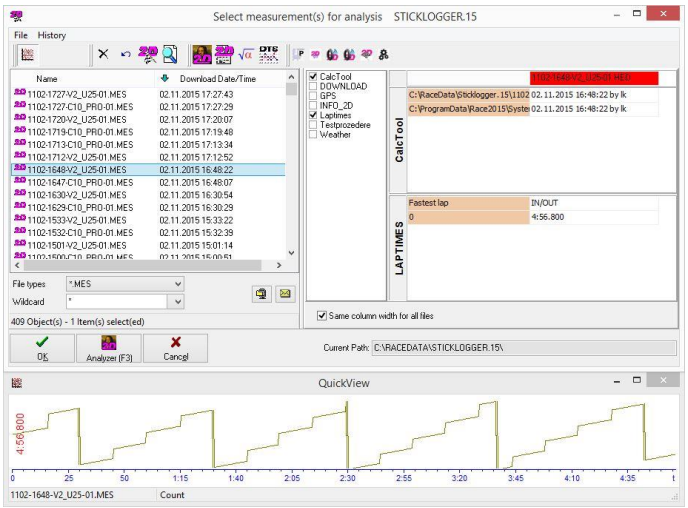
Afterwards you´ll get a list with the different cal-files available. In option 1, 2 and 3 you´ll be asked if you want to edit or run the cal-file. Option 4 directly runs the cal-file, as coded cal-files can´t be modified by the user.



3.7 File explorer

The file explorer gives you an overview of all measurement data of the current event. On the left-hand side you see all measurement directories and on the right-hand side there is the *SpecSheet* of the currently selected measurements. At the bottom is an overview window (QuickView). By clicking on it you can select the shown channel.

To search for specific measurements you can enter a part of its name in the wildcard-field.

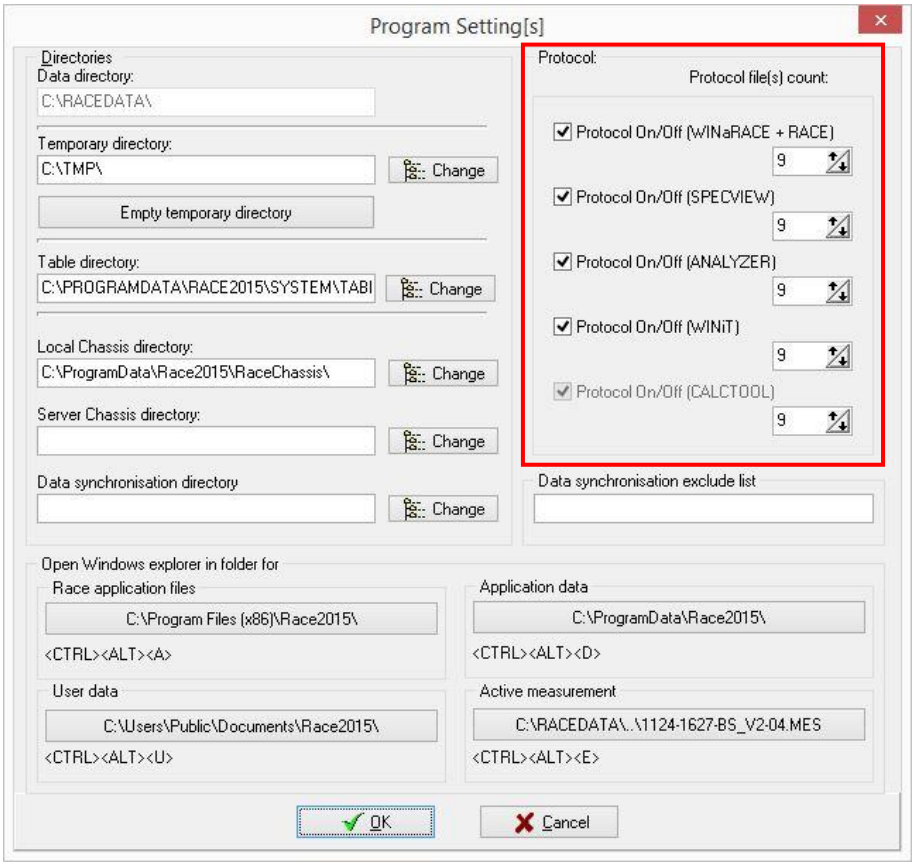


3.8 Access to the protocol function

The protocol function is very important for 2D as manufacturer to detect software problems and fix software errors.

If you activate the protocol function you will get a separate protocol file for each software module you selected. The protocol files are named after the software module. For example if you activate the protocol function for the program Analyzer, the corresponding protocol files are Analyzer.txt, Analyzer1.txt, Analyzer2.txt in your systems protocol folder[5]. These files are in standard text format and the most recent protocol file is the one without a number.

To view or modify the protocol settings select “Settings”, “Folders – Protocol” in *WinARace*.



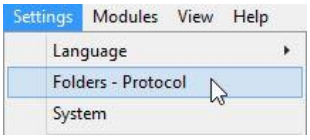
You can define how many protocol files should be saved for each program and turn the function on or off. Confirm your changes with <**Ok**>.

[5] The protocol folder is located within the application data, for example *C:\ProgramData\Race2015\Protocol*

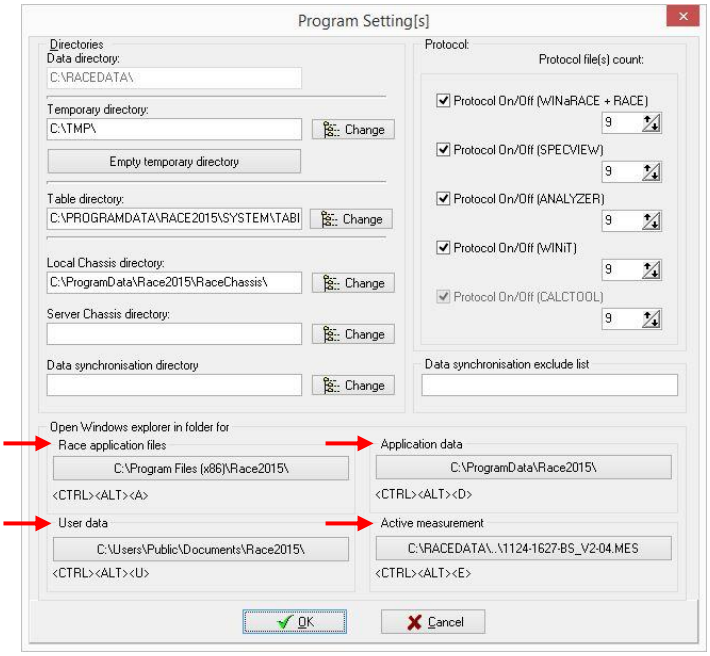
4 New folder structure since 2014

With the new 2014 software version of *WinARace* there are some changes in the folder structure. The new software is split up in different folders (race application files, application data and user data).

For locating these folders start *WinARace* and select *Settings ⇒ Folders – Protocol*.



At the bottom of the form you can see different buttons, which will open the corresponding Windows Explorer:



Race application files:

64 bit Windows: C:\Program files (x86)\Race20XX.Y
32 bit Windows: C:\Program files\Race20XX.Y

This folder contains the 2D executable programs and core files like language or help.

Application data:

Windows 7/8/10: C:\ProgramData\Race20XX.Y
Windows XP: C:\Documents and Settings\All Users\Application Data\Race20XX.Y

This folder contains all the internal data files like .ini, license, protocol, chassis, system, circuit.

User data:

Windows 7/8/10: C:\Users\Public\Documents\Race20XX.Y
Windows XP: C:\Documents and Settings\All Users\Documents\Race20XX.Y

This folder contains all the user specific public files like cal-files, math-files, channel settings, templates, etc.

5 Analysing channel overview

Name	Sensor Info	
Re_dtc_tot	Drehmomentreduktion aus ASC/DTC + Weitere	Torque reduction final
Re_dtc_spn	Drehmomentreduktion aus ASC/DRC	Torque reduction ASC/DRC
Whl_Trq_DTC	ASC/DTC berechnetes Antriebsmoment Hinterrad	Calculated ASC/DTC torque rearwheel
Re_DTC_PreCtrl	Relative Drehmomentreduktion ASC ASC/DTC Vorsteuerung	Relative torque reduction by ASC/DTC
V_Rear	Hinterradgeschwindigkeit	Speed rearwheel
Speed	Vorderradgeschwindigkeit	Speed Bike
V_Front	Reale Vorderradgeschwindigkeit	Speed frontwheel
ST_Wheely	Abhebeerkennung Vorderrad	Status wheely
Bank_dtc	Schraeglage	Bankangle
Throttle	Drosselklappenwinkel	Throttle opening
Grip_pos	Gasgriffwinkel	Rider demand opening
RPM	Drehzahl Motor	RPM engine
ABS_Stat	ABS Ein / Aus / Regeleingriff	ABS on / off / active
Gear	Gang	Gear
T_Mot	Temperatur Motor	Engine temperature
Brake_Press_F	Bremsdruck Rad Vorne	Brake pressure front
Brake_Press_R	Bremsdruck Rad Hinten	Brake pressure rear
DDC_sensor_fr_status	Status Federwegsensor Vorne verbaut	Front suspension sensor mounted
DDC_error_status	Status DDC	Status DDC
DDC_displacement_fr	Hoehenstand Vorne	Suspension position front
DDC_displacement_rr	Hoehenstand Hinten	Suspension position rear
Drv_Mod	Fahrmodus	Drive mode
T_Air	Ansauglufttemperatur	Intake air temperature
ACC_Y	Querbeschleunigung	Lateral acceleration
YAWRATE	Gierrate	Yawrate
ACC_X	Laengsbeschleunigung	longitudinal acceleration
ROLLRATE	Rollrate	Rollrate
ACC_Z	Vertikalbeschleunigung	vertical acceleration
PITCHRATE	Nickrate	Pitchrate

RacePro1_WhlCtr	Einstellung RACPRO1 DDC	Setup RACEPRO1 DDC
RacePro1_TrackCtrl	Einstellung RACPRO1 Traktionskontrolle	Setup RACEPRO1 Traction control
RacePro1_Engbrk	Einstellung RACPRO1 Motorschleppmoment	Setup RACEPRO1 Engine brake
RacePro1_Engine	Einstellung RACPRO1 Motor	Setup RACEPRO1 engine
RacePro1_ABS	Einstellung RACPRO1 ABS	Setup RACEPRO1 ABS
RacePro2_WhlCtr	Einstellung RACPRO2 DDC	Setup RACEPRO2 DDC
RacePro2_TrackCtrl	Einstellung RACPRO2 Traktionskontrolle	Setup RACEPRO2 Traction control
RacePro2_Engbrk	Einstellung RACPRO2 Motorschleppmoment	Setup RACEPRO2 Engine brake
RacePro2_Engine	Einstellung RACPRO2 Motor	Setup RACEPRO2 engine
RacePro2_ABS	Einstellung RACPRO2 ABS	Setup RACEPRO2 ABS
RacePro3_WhlCtr	Einstellung RACPRO3 DDC	Setup RACEPRO3 DDC
RacePro3_TrackCtrl	Einstellung RACPRO3 Traktionskontrolle	Setup RACEPRO3 Traction control
RacePro3_Engbrk	Einstellung RACPRO3 Motorschleppmoment	Setup RACEPRO3 Engine brake
RacePro3_Engine	Einstellung RACPRO3 Motor	Setup RACEPRO3 engine
RacePro3_ABS	Einstellung RACPRO3 ABS	Setup RACEPRO3 ABS
V_Sat	GPS Geschwindigkeit	GPS speed
ValidSat	Sichtbare Satelliten	Visible satellites
SSHH	Sekunden.Hundertstel	Seconds:Hundredth
Course	Fahrrichtung	Driving direction
Lat_dez	Längengrad in dezimal degree	Position in dezimal degree
Lon_dez	Breitengrad in dezimal degree	Position in dezimal degree
Altitude	Absoluthöhe über NN	m above sea level
MMDD	Monat. Tag	Month:Day
HHMM	Stunde . Minute	Hour:Minute
V_KL_30	Spannung Klemme 30	Power
vUSB	Spannung am USB Port	Power USB
Longitude	Längengrad	Position in dezimal degree
Latitude	Breitengrad	Position in dezimal degree
GPSValid	GPS Daten verwendbar	GPS data valid

Calculated channels		
V_GPS	GPS Geschwindigkeit korrigiert	GPS speed filtered
GPS_Yaw	Gierrate aus GPS	Yaw rate from GPS
A_Lon_GPS	Längsbeschleinigung aus GPS	Longitudinal acceleration from GPS
A_Lat_GPS	Querbeschleunigung aus GPS	Lateral acceleration from GPS
Banking_GPS	Schräglage aus GPS	Bankangle from GPS
SOD_raw	Zeitkanal	time channel
Time2D	Zeitkanal	time channel
SOD_Jump_pos	Zeitkanal	time channel
SOD_Jump_neg	Zeitkanal	time channel
SOD_UPD_Index	Zeitkanal	time channel
SOD_Extrapol	Zeitkanal	time channel
SOD_Valid	Zeitkanal gültig	time channel valid
SOD	Zeitkanal Sekunden seit 00:00	time channel seconds since 00:00
Susp_fr_2D	Federweg Front	Suspension travel front
Susp_rr_2D	Federweg Rear	Suspension travel rear
Drive_Modus	Fahrmodus Klartext	Drivemode as text
Speed	Korrigierte Geschwindigkeit Fahrzeug	Speed bike
Slip	Schlupf zwischen Vorder- und Hinteradgeschwindigkeit	Slip calculated by V_Front And V_rear
s_Lap	Laufende Rundenlänge	Running Distance per Lap
s_Run	Gesamtweg der Messung	Run Distance
Bank_abs	Schräglage absolut	Bankangle no direction
UpShift_cnt_Lap	Hochschalten aktuelle Runde	Upshift actual lap
DownShift_cnt	Herunterschalten seit Start Messung	Downshift since start
DownShift_cnt_Lap	Herunterschalten aktuelle Runde	Downshift actual lap
GearChangeRPM	Drehzahl beim Schalten	Gearchange RPM

These channels only valid results with mounted suspension sensors ! **(Channels are compatible for compare with older models)**		
Susp_fr_hi_2d	Federweg Front gefiltert	Front Suspension Position filtered hi source Susp_fr_2d
Susp_rr_hi_2d	Federweg Rear gefiltert	Rear Suspension Position filtered hi source Susp_rr_2d
Susp_fr_lo_2d	Federweg Front mit 3 Hz gefiltert für Mittelwertlage Fahrzeug	Front "Bike" Position filtered 3 Hz
Susp_rr_lo_2d	Federweg Rear mit 3 Hz gefiltert für Mittelwertlage Fahrzeug	Rear "Bike" Postion filtered 3 Hz
Susp_speed_fr_2d	Ein- / Ausfedergeschwindigkeit Front	Front Suspension Movement Speed
Susp_speed_rr_2d	Ein- / Ausfedergeschwindigkeit Rear	Rear Suspension Movement Speed
These channels only available with DDC suspension control !		
DDC_Rebd_Rear	Einstellung Zugstufe Hinterrads	Rear damping setup rebound
DDC_Comp_Rear	Einstellung Druckstufe Hinterrads	Rear damping setup compression
DDC_Rebd_Front	Einstellung Zugstufe Vorderrads	Front damping setup rebound
DDC_Comp_Front	Einstellung Druckstufe Vorderrads	Front damping setup compression

6 Shortcut list

Shortcut	Action
<F1>	Shows context sensitive help module
<F2>	Starts the *WinIt* (Read all devices selected in the options)
<CTRL> + <F2>	Starts the *WinIt* (Read all recording devices)
<Alt> + <F2>	Starts the *WinIt* (Read all dashboards)
<Shift> + <F2>	Starts the *WinIt* (Read all CAN slaves)
<F3>	Starts the *2D Analyzer*
<Alt> + <E>	Starts the *2D Event Explorer* tool
<Alt> + <I>	Starts the program *SpecView*
<Alt> + <Q>	Opens a window to view and modify the active measurement´s comment
<Alt> + <W>	Opens a window to modify the weather info
<Alt> + <X>	Terminates *WinARace*
<Alt> + <F4>	Terminates *WinARace*
<CTRL> + <Alt> + <A>	Opens a windows explorer in folder for Race application files
<CTRL> + <Alt> + <D>	Opens a windows explorer in folder for application data
<CTRL> + <Alt> + <U>	Opens a windows explorer in folder for user data
<CTRL> + <Alt> + <E>	Opens a windows explorer in folder for the active measurement