

Help pages

Help pages: press to scroll...


Documentation and updates can be found at:

www.crisartech.fr/download



1 « regularity » page (main page)

Main page outside of RT



Configuration button (appears when pushed)

Stop or reverse

Change speed (simu mode)

Vehicle Speed

GPS reception quality

Trip1 (push to correct)

RT management page

Push to change page

GBR

Imposed speed in RT

Chrono, push to start or stop

Undo last correction

Main page during RT

Bargraph:
yellow-red: accelerate
blue-green: slow down

Recommended speed (avoids the yo-yo)

Advance (green) or delay (red)

Background changes color like end of bargraph


Distance corrections from bottom to top (with cumulation)

Segment compulsory speed

Segment in progress

RT in progress

Next GPS correction



2 Trip modification

Numbers for direct modification

Frozen distance (black) or modified (blue)

Delete

Trip in modification (continues to run)

Apply the gap (correction of the frozen value, not in beginner mode)

Write the new prepared value (when pushed)

Correction value

Add or subtract 1 or 10 m.

Close without modification

The interface shows a numeric keypad (0-9, ., <-) and function buttons: Apply gap, New value, Help, and a back arrow. The top display shows '122.896' in blue and '-0.104' in green. The bottom display shows '123.000' in pink.

3 Stopwatch

Start chrono manually

Push to switch to auto start on time

Check to switch to circuit mode

then...

... push the chrono value to make appear the "Stop" button

Manual start

Use the "Stop" button to stop the timer

The interface shows a timer set to 10:41:00 with +30 s. and -30 s. buttons, and a 'Mode circuit' checkbox. A red hand icon button is highlighted. The bottom display shows ':00:31' with a red 'Stop' button icon.

2: close and wait for start time

Desired time for automatic start

1: choose auto start time (per 1' for beginners)

Check to switch to circuit mode

then...

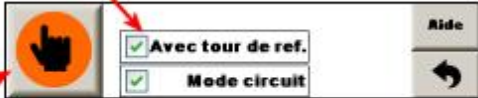
... push the chrono value to make appear the "Stop" button

Start automatic on time



Use the "Stop" button to stop the timer

The interface shows a timer set to 10:42:00 with +30 s. and -30 s. buttons, and a 'Mode circuit' checkbox. A yellow clock icon button is highlighted. The bottom display shows ':00:31' with a red 'Stop' button icon.

1: check



2: start at the beginning of the reference lap

Circuit mode with reference lap

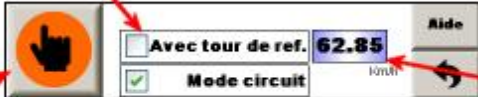
then...

...push the button when passing on the chrono line (press chrono value if button disappeared)

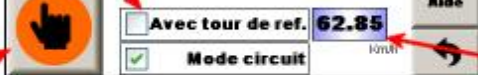
Number of laps 0: reference lap → 4

Use the "Stop" button at the end of the last lap



1: uncheck



2: enter the speed imposed, measured or calculated



3: start on the chrono line

Circuit mode without reference lap

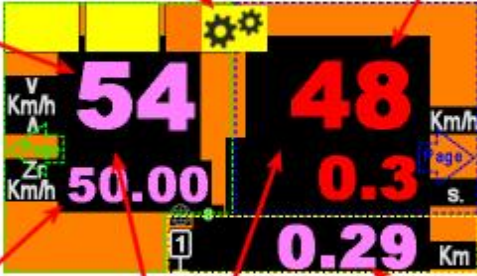
then...

...push the button when passing on the chrono line (press chrono value if button disappeared)

Number of laps → 4

Use the "Stop" button at the end of the last lap

4 « pilot » page



Configuration button (appears when pushed)

Vehicle Speed

Recommended speed (avoids the yo-yo)

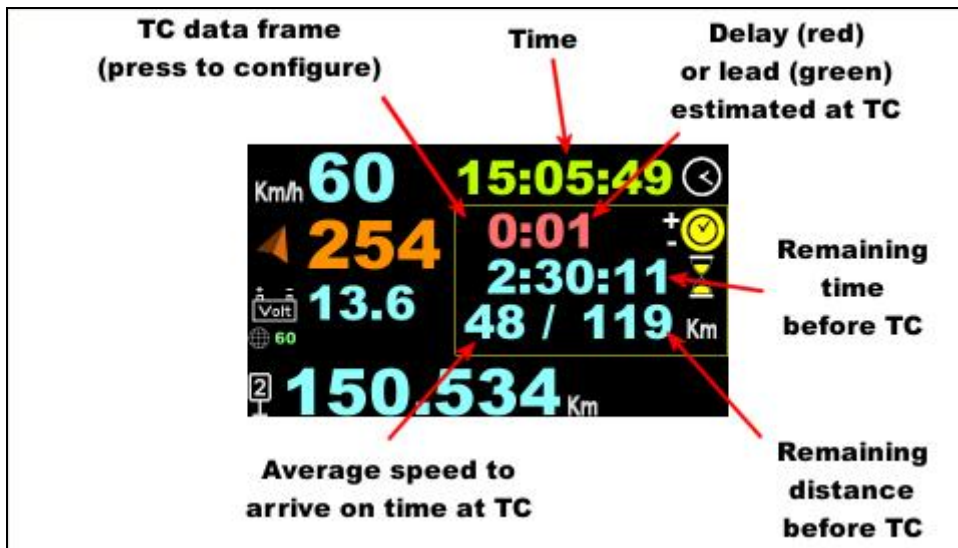
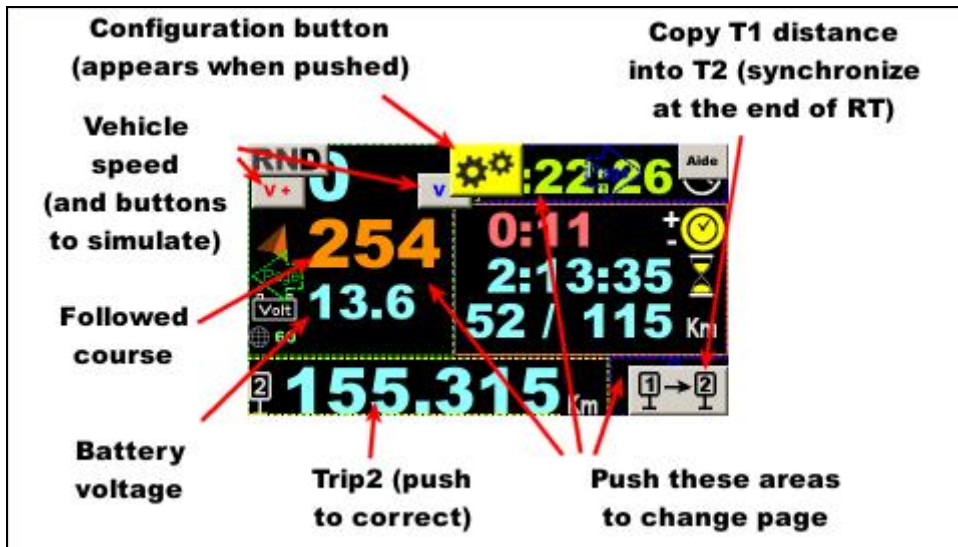
Average speed for the segment

Push these areas to change page

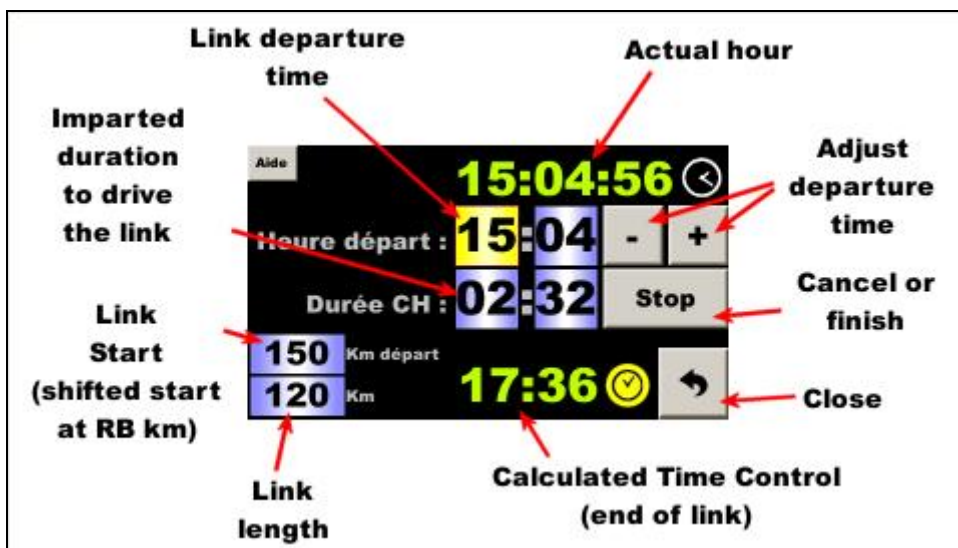
Trip1 (push to correct)

54 Km/h
48 Km/h
50.00 Km/h
0.3 s
0.29 Km

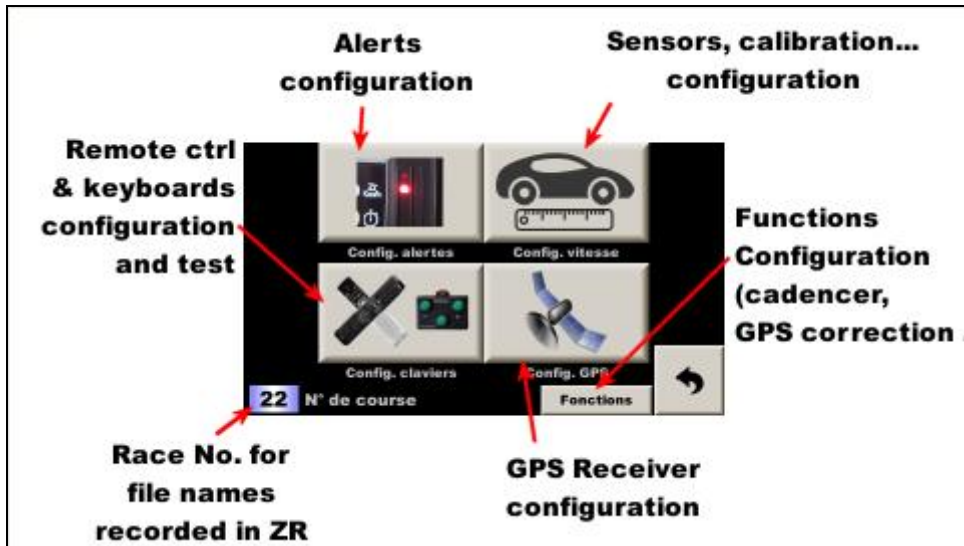
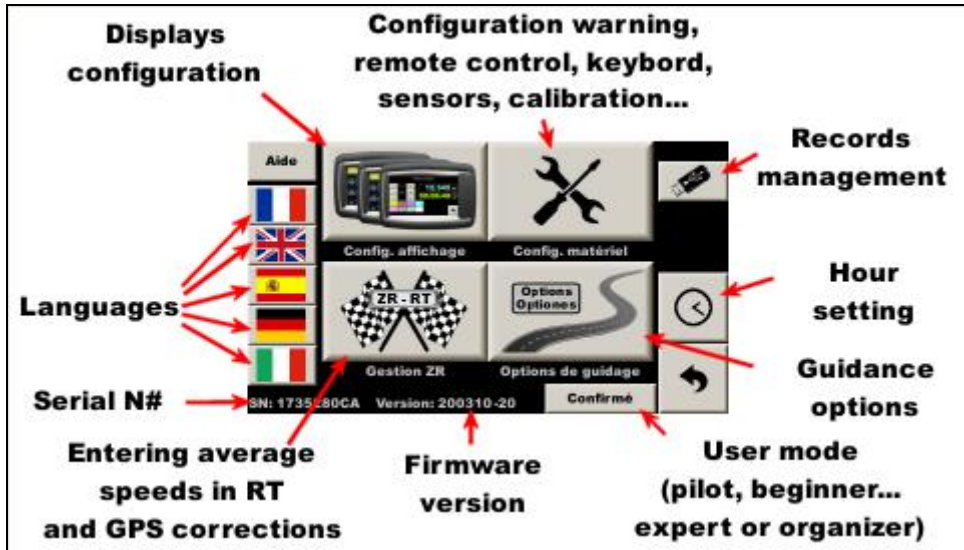
5 « link » page



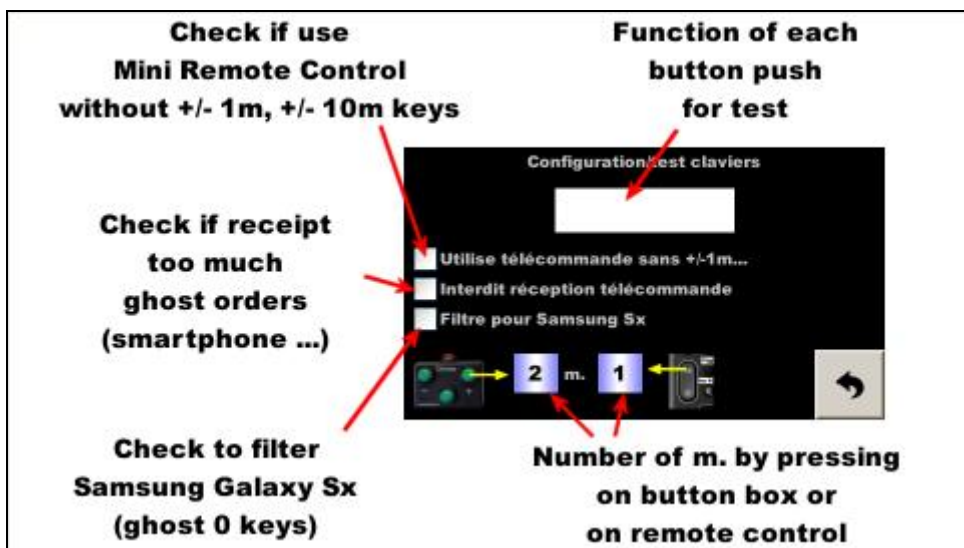
set ideal TC hour:



6 Configuration



6.1 Infrared remote control and button box configuration and test



6.2 Sensors configuration, calibration...

1: choose type of connection

4: go to calibration page

2: in OBD choose the vehicle type (OBD 11 bits or 29 bits are ok everywhere but are less accurate)

3: if proposed, choose distance computation method as done by the organizer

Close

Wheel sensor monitoring:

(help with connecting the sensors)

To compare L wheel with R wheel

maximum error tolerated before alert

monitoring distance

Popup displayed if error detected:

To compare wheels with GPS

Give a name to the calibration

Tires centrifugal swelling compensation (expert mode)

"Mountain" corrections

Edit calibration on the fly or bt +/- 1m (except beginner mode)

Type here the calibration value, if it is already known

Coefficient to apply to calibrations

Wheel or OBD calibration

Add or remove 0.1 m. per km (key +/- 1 m. remote control)

Paste coef. of normalization or manual corrections

GPS calibration (check box previous page)

Add or remove 1 m. per km (key +/- 10 m. remote control)

Validate **Cancel**

1: choice of Trip1 or 2 or a distance freely copied (compute without drive)

2: Reset at calibration zone start

3: drive the zone or type in the distance

5: compute

Calibrate the GPS at same time

4: Type calibration distance given by the organizer

Close

In "sensor" mode, for GPS based calibration (fast but not very precise):

Connection configuration (sensors, OBD, GPS...)

1: click GPS mode

2: drive in straight line

3: compute while driving

Check each sensor pulses (if available)

6.3 Distances/speed management during RT

RT are recorded in files

Theoretical chrono at the end of segment

RT choice

MultiSpeeds mode

One line for each speed (segment)

Scroll the lines

Close

km of beginning and end of segment

Speed on the segment (km/h)

Trip1

Ind	Début	Fin	Vitesse	Temps	Aide
1	0.000	3.658	48.32	4:32.5	
2	3.658	5.215	46.36	6:33.4	^
3	5.215	8.698	49.99	10:44.2	v
4	8.698	12.375	47.02	15:25.7	↩

'Gravel crew' or semi-auto corrections notes

GPS auto-corrections

New RT

Save RT

Changing speeds

Delete ALL data of ALL RT

Shifted start: starting distances point choice

Exchanges with USB

Modify the shifted start distance during RT

6.4 Automatic corrections by GPS

Points are recorded in the file at each addition

Duplicate (if multiple passages in the race)

RT table display

Total number of points

Next file

Next file

Adjust distances

Distance since last green and yellow point

Delete the last point

Trip1

GPS reception quality

Scroll the lines

Ind	Km	Latitude	Longitude	Commentaire	Début	Aide
334	49.214	44.376884	5.514539	d949		
335	53.237	44.387955	5.485857	d994	^	
336	53.880	44.388878	5.478682	Rosans	v	

GPS points manual entry

1: type a comment (optional)

2: add a point after tight turn, or ... (limited distance correction)

... add a point without correction limitation (not after tight turn)

GPS points automatic entry

It remains possible to enter a point manually between 2 automatic points by pressing the yellow button

2: check

1: type distance between two points

Text generated by buttons

Keyed text

Number pad

Remove the text

Close without modification

Validate

Go directly to the directions (right, across, left ...)

Auto-incremented index (Road-book box or PK for example) Modified with +/- 1 m. keys

Move the starting position:

1: enter the distance difference between new and old start

2: Select whether the new departure is before or after the original departure

3 : push button

Match to a road-book box:

1: type distance exact of the box

2: check that it corresponds to the previous correct point (not in beginner mode)

3 : push button

4: button to adjust calibration if necessary

Configuration des corrections par GPS

If the point entered is too close to the previous one, proposes to delete the previous point

Limit corrections to avoid jerks in areas of poor reception

If you drive this distance without correction, then launch "GPS Magic" function

Activates "Auto Km" after entering a manual point

Speed below which corrections are ignored

6.5 'Gravel crew' notes management

Points are recorded in the file at each addition

Import distances from distances / speeds file

New file

2-Button for semi-auto correction or button marker / difficulty

Delete the last point

Total number of points

Scroll the lines

Distance added during import

Distance to anticipate the announcement

1-Enter distance: keyboard or remote control

Optional popup in RT

6.6 Date / hour setting

with GPS auto-synchronisation:

Paris time zone: GMT + 1 h in winter GMT + 2 h in summer

Offset to match to the organizer clock (except beginner mode)

Uncheck for a manual setting

Synchro beeps every second (looking at time orga.)

Reset to 0 all offsets

Close

manual setting:

Changing the minutes sets seconds to 0

Check for a GPS auto. setting

Offset to match to the organizer clock (except beginner mode)

Close

6.7 Guidance options

Enable the notes for semi-auto correction or 'gravel crew' notes

Beep: low tone to slow down or acute to accelerate

Check if pilot screen connected

Option for colour blind

Speed difference guidance is recommended to avoid the "yo-yo" effect

Increase for less of beeps, but less accurate (not in mode beginner)

Lead/delay calculation 2 times faster

Inverting red/green of LEDs or display

Enable the auto. correction by GPS

Check to enter points "all automatic"

Check if T1 is not reset to 0 at RT start

Automatic start detection by GPS

Trip2 is replaced by Trip1

When T1 reset to 0 makes T2 reset to 0

Info on distance differences compared to GPS (expert mode)

To take into account +/- 1 to 10 m. corrections in refining the calibration

6.8 Display configuration

Press the thumbnails of unwanted pages. A cross indicates that they are no longer displayed.

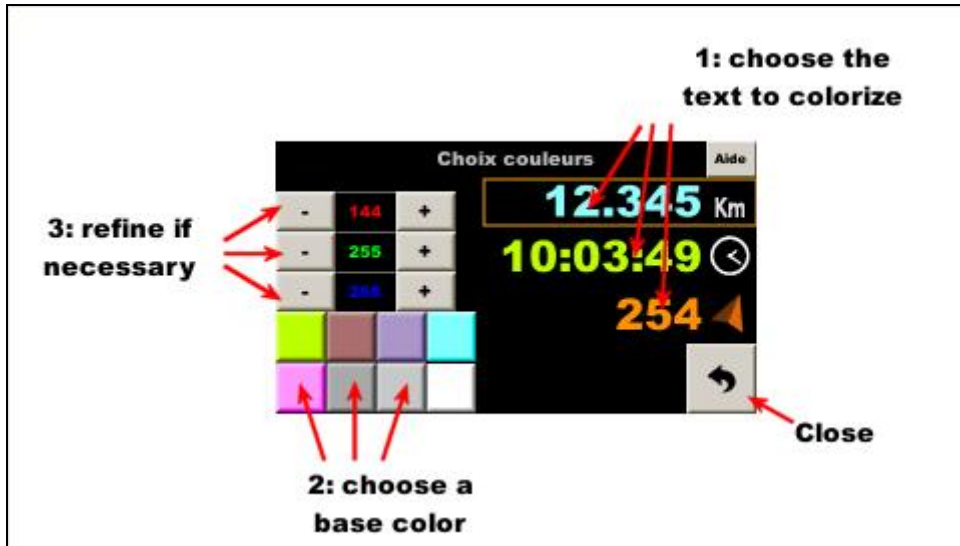
Press in the lower right corner to select the default page (green check mark).

Press the "Config" button to configure the display of certain pages:

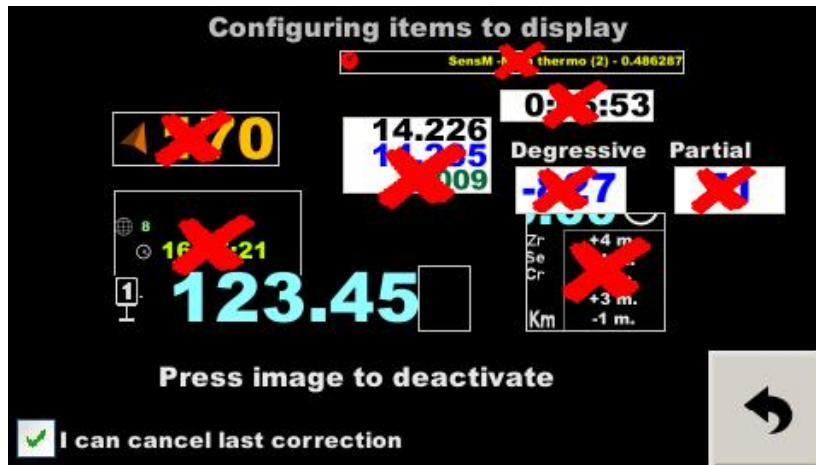
Press image to deactivate

tick the desired main page

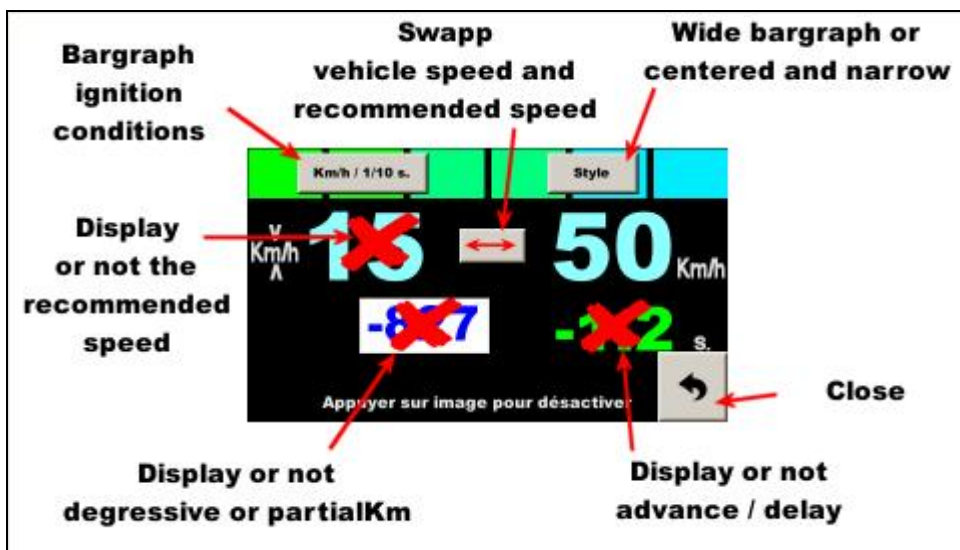
Press the color palette button to set the text color:



« codriver » page, remove some information pressing on images:



« pilot » page (configures also RP380/400 if connected):



**For each point of the bargraph,
configure when it lights up**

		-	2	+
		-	4	+
		-	6	+
		-	8	+
		-	10	+
		-	16	+

Unit:
Km/h if guidance by speed difference
1/10 s. if guidance by time difference

Close

6.9 Files recording

Check to record. Recording starts when Trip1 is set to 0

Number and size of files in memory, free space available

Distance between 2 recorded points

Formatting (Reset)

Records the position 10 times per second instead of 2

After plugging in a USB drive, press to access the screen of archive file management

RT preparation files:

- average speeds
- GPS corrections
- 'gravel crew' notes
- GPX (export only)

Other recorded files:

- during the race
- during scouting
- calibrations ...

RT table display

Software update (if found on the USB drive)