

Help pages

1 « regularity » page (main page)

Configuration button
(appears when pushed)

Push to change page

Main page outside of RT

Stop or reverse

Change speed (simu mode)

Vehicle Speed

GPS reception quality

Trip1 (push to correct)

RT management page

GBR

Imposed speed in RT

Chrono, push to start or stop

Undo last correction

Annotations on the screenshot include: 'RND', 'v - Km/h 38', 'M - Micro thermo (2) 48.32', 'Zr Km/h', '0:00:00', '16:50:50', '1 Zr', '2 Cr', '5.913 Km', 'Annule correction Undo', and '1'.

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

Main page during RT

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

Annotations on the screenshot include: '48 Km/h', '50.00 Km/h', 'v Km/h 54', '0:00:09', '0.3', '2 Zr', '2 Cr', '+8 (8) m.', '+3 (11) m.', '+4 (7) m.', '+5 (12) m.', '-2 (10) m.', and '0.131 Km'.

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)

Correction value

Add or subtract 1 or 10 m.

Close without modification

Write the new prepared value (when pushed)

Annotations on the screenshot include: '7', '8', '9', '122.896', '-0.104', '4', '5', '6', '+ 1', '+ 10', '1', '2', '3', '- 1', '- 10', '0', '.', '<-', 'Apply gap', 'New value', '123.000 Km', 'Help', and a back arrow.

3 Stopwatch

Start chrono manually **Push to switch to auto start on time**

Check to switch to circuit mode **Close**

then...

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

Manual start

Use the "Stop" button to stop the timer

2: close and wait for start time **Desired time for automatic start**

Check to switch to circuit mode **1: choose auto start time (per 1' for beginners)**

then...

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

Start automatic on time

Use the "Stop" button to stop the timer

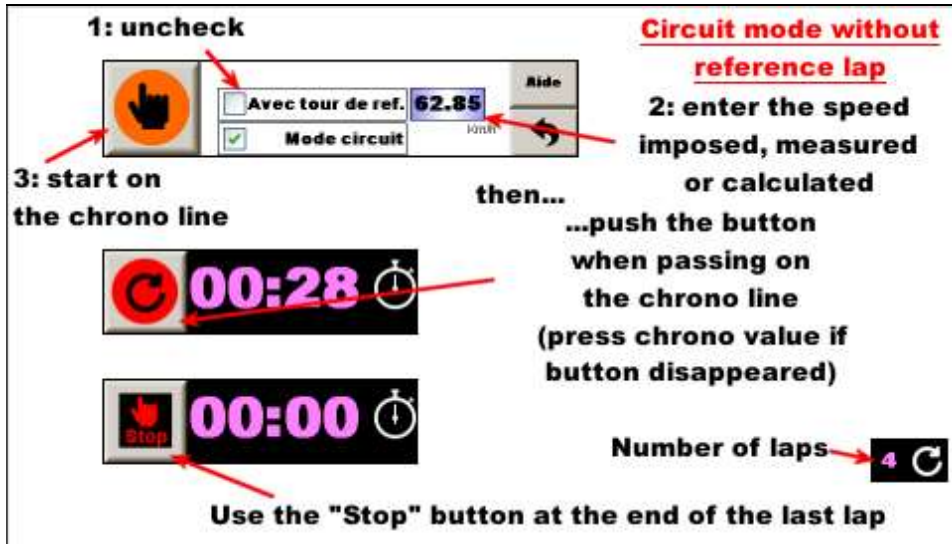
1: check **Circuit mode with reference lap**

2: start at the beginning of the reference lap then...

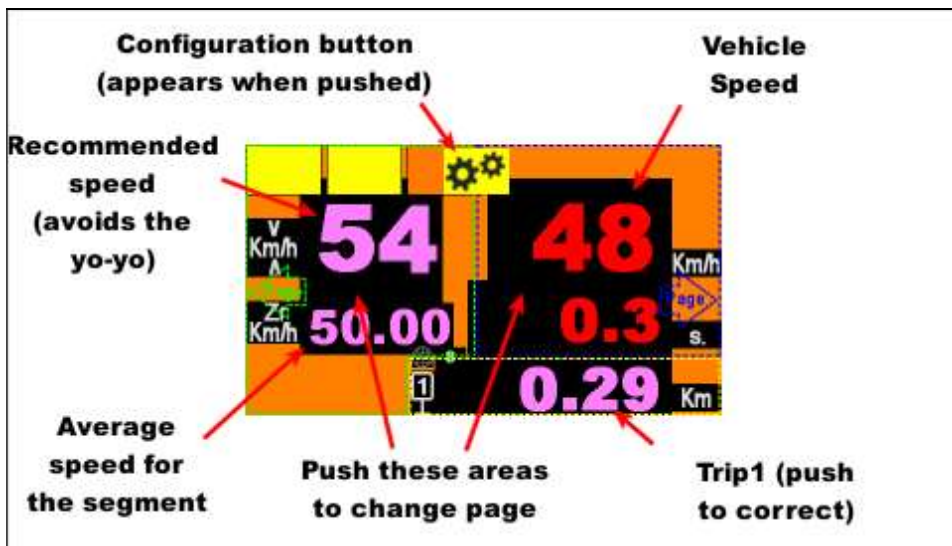
...push the button when passing on the chrono line (press chrono value if button disappeared)

Number of laps
0: reference lap

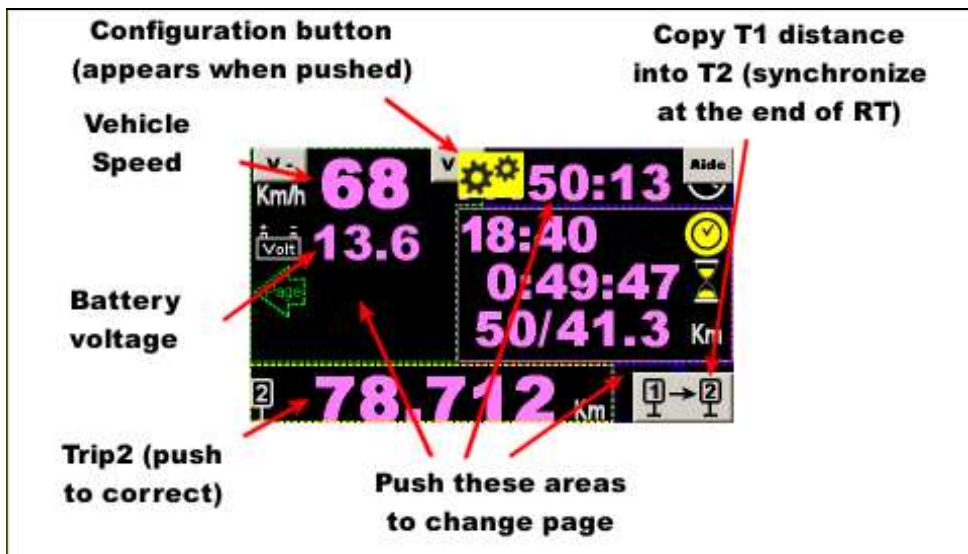
Use the "Stop" button at the end of the last lap

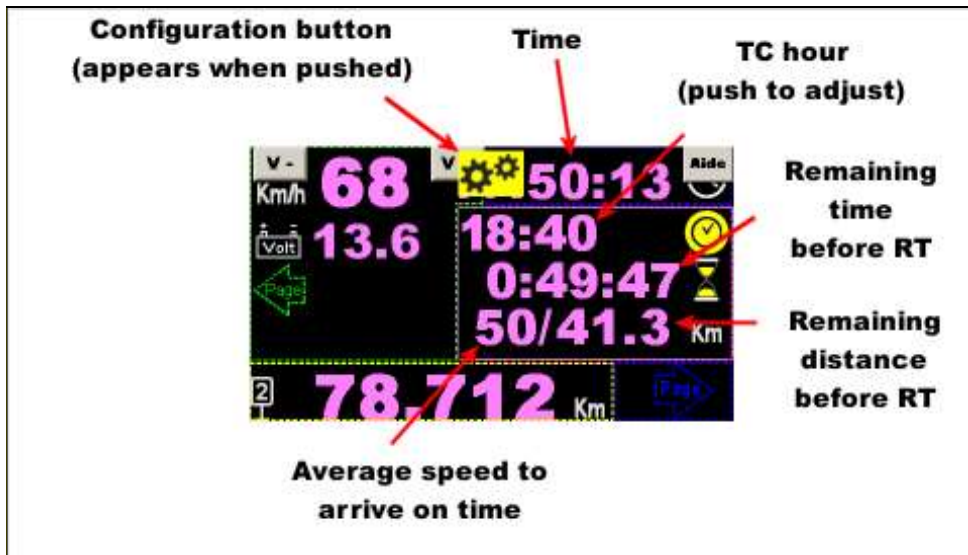


4 « pilot » page

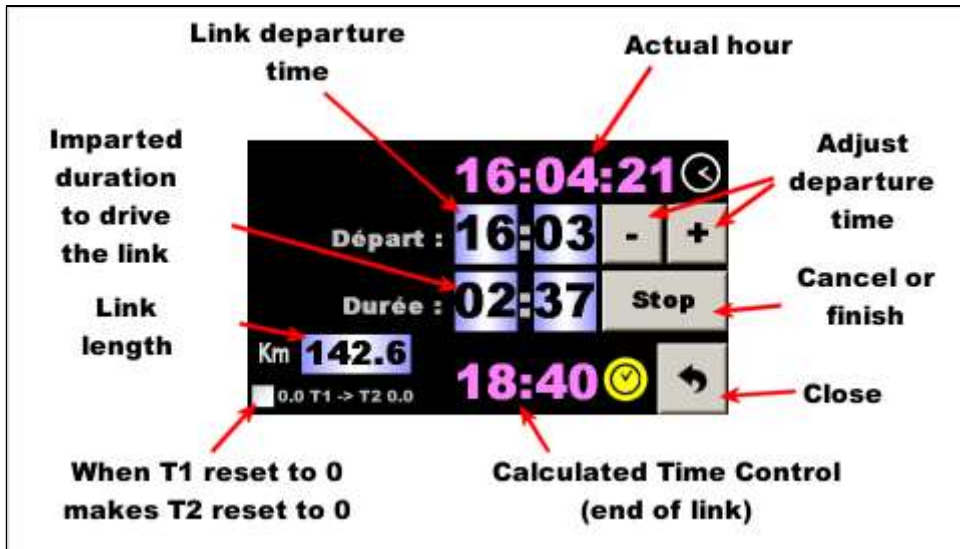


5 « link » page

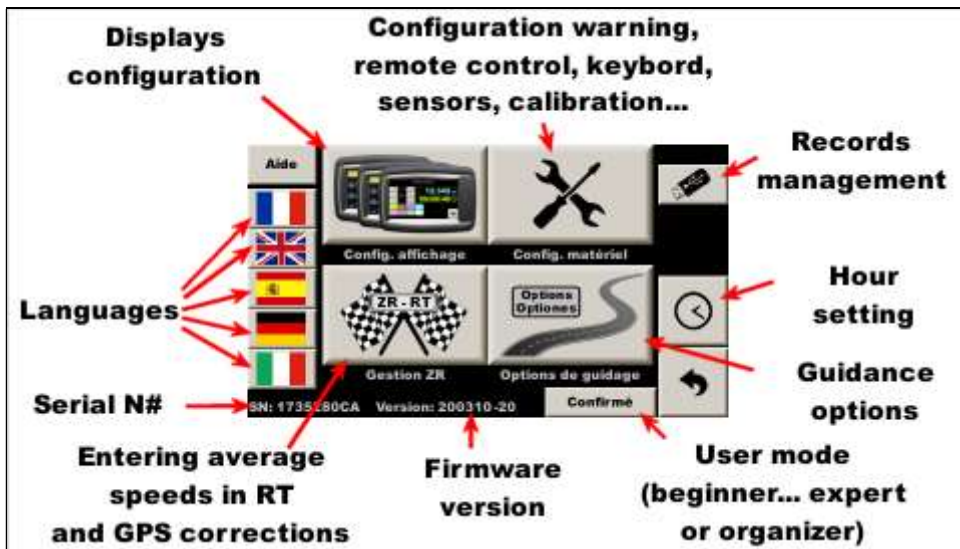


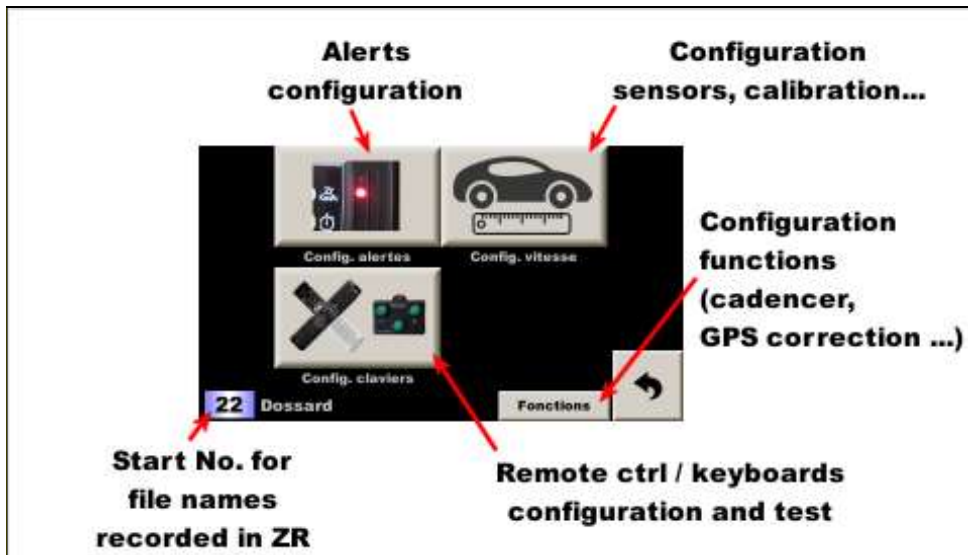


set ideal TC hour:

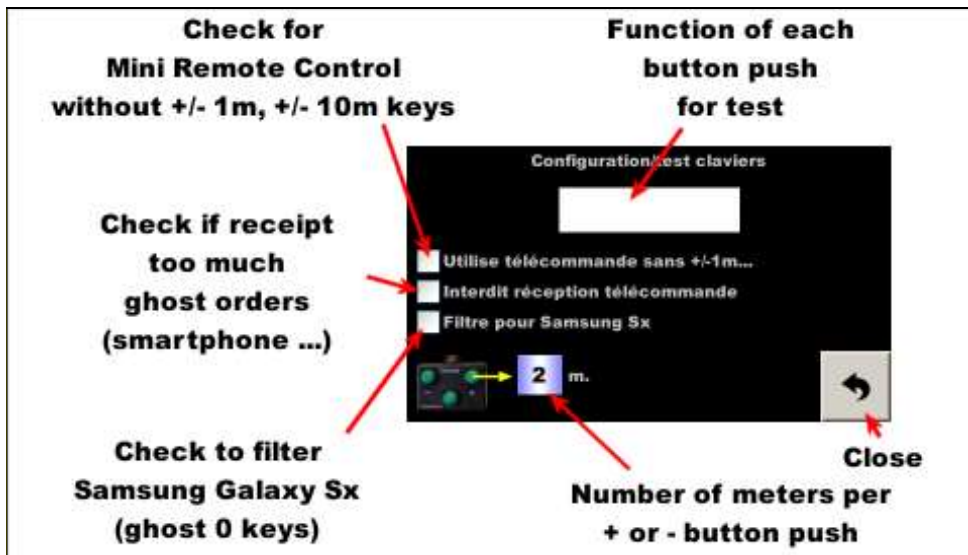


6 Configuration

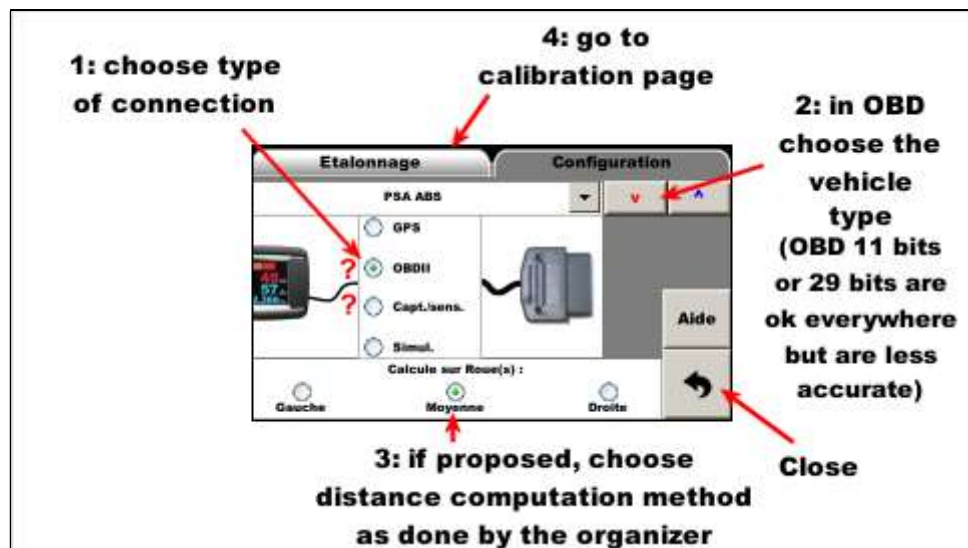




6.1 Infrared remote control and button box configuration and test



6.2 Sensors configuration, calibration...





Wheel sensor monitoring:

To compare L wheel with R wheel

maximum error tolerated before alert

monitoring distance

Popup displayed if error detected:

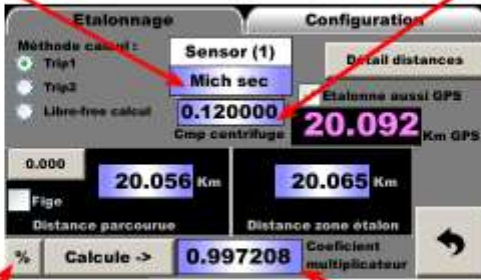



Tires centrifugal swelling compensation (expert mode)

Give a name to the calibration

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

Type here the calibration value, if it is already known



Coefficient to apply to calibrations

Wheel or OBD calibration

GPS calibration (check box previous page)

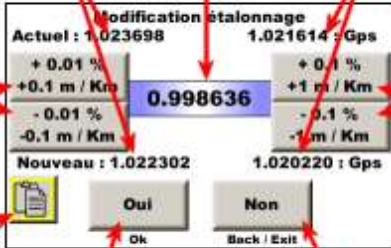
Add or remove 0.1 m. per km (key +/- 1 m. remote control)

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

Paste coef. of normalization or manual corrections

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

4: Type calibration distance given by the organizer

5: compute

Calibrate the GPS at same time

Close

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

1: click GPS mode

2: drive in straight line

3: compute while driving

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

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

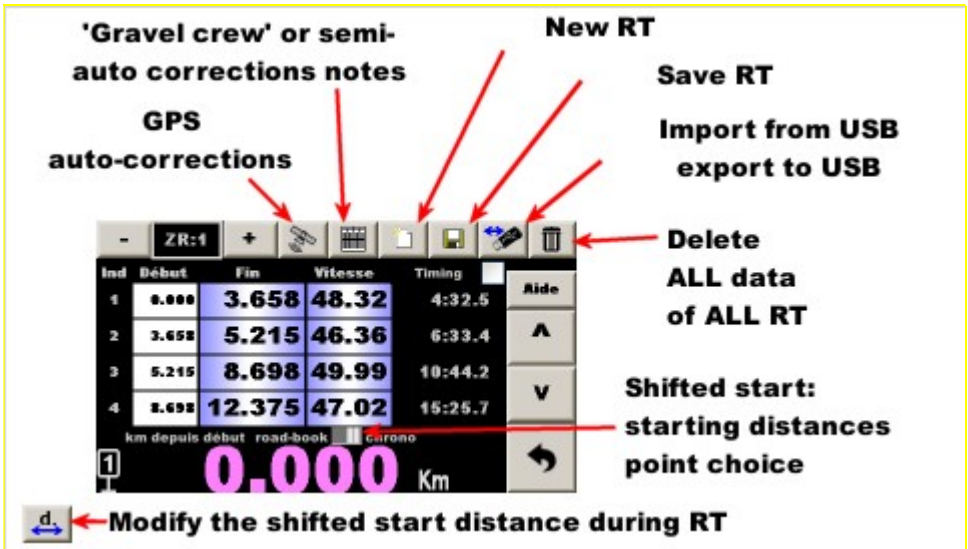
Close

km of beginning and end of segment

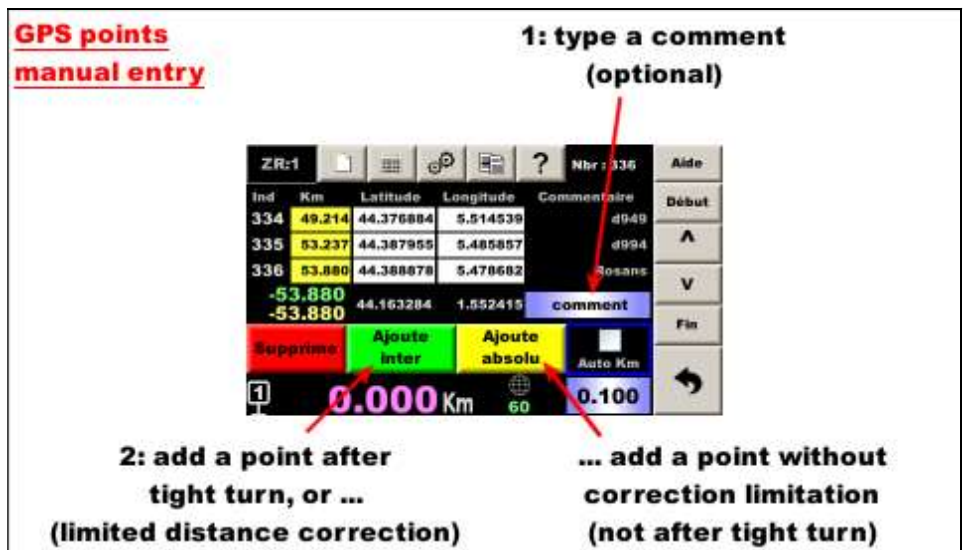
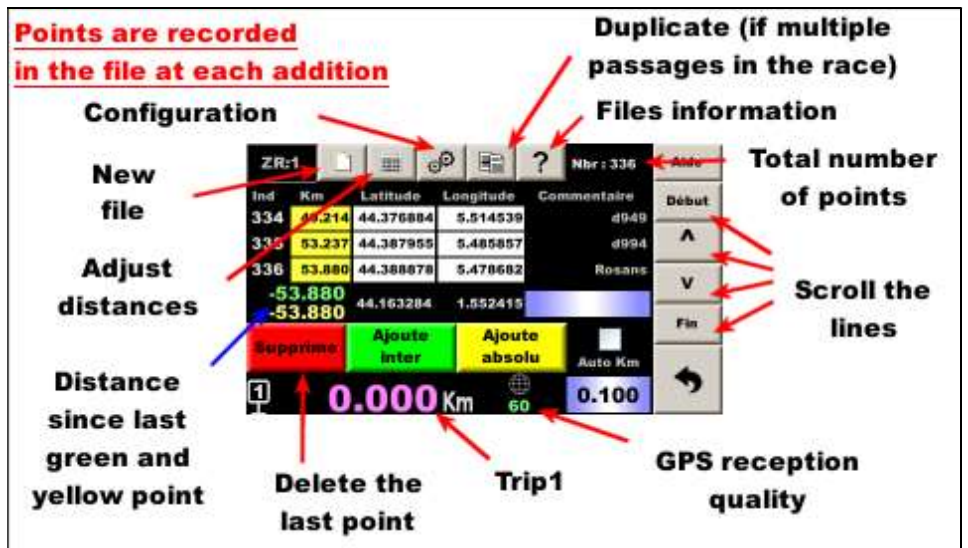
Speed on the segment (km/h)

Trip1

| Ind | Début | Fin | Vitesse | Temps |
|-----|-------|--------|---------|---------|
| 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 |
| 4 | 8.698 | 12.375 | 47.02 | 15:25.7 |



6.4 Automatic corrections by GPS



GPS points automatic entry (road without tight turn)

1: type distance between two points

2: check

It remains possible to enter a point manually between 2 automatic points

Text generated by buttons

Keyed text

Number pad

Remove the text

Close without modification

Validate

Function keys

Auto-incremented n° (Road-book box for example) Modified with +/- 1 m keys.

If start before: add a positive distance to all points

If start after: add a negative distance to all points or make a shifted start

After addition, it is necessary normalize if distance total unchanged

Multiply all points by a coefficient (never used)

1: type distance exact of the box

Match to a road-book box:

3: push button

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

4: button to adjust calibration if necessary

Maxi error corrected by green point

Correction flash:

- less than 6 m: green
- 6 to 30 m: yellow
- more than 50 m: red

If this distance without correction, then display "GPS Magic" button

Validate the check "auto Km" after entering a point

Buttons assignment

Use the keyboard to capture the GPS correction points

6.5 'Gravel crew' notes management

Points are recorded in the file at each addition

Delete the last point

Total number of points

Scroll the lines

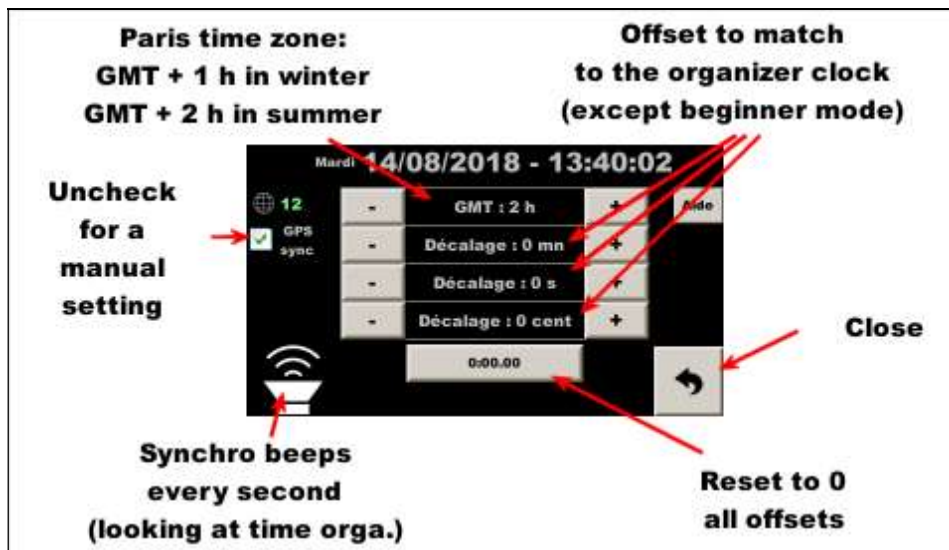
2-button for semi-auto correction or button for difficulty

1-Enter distance: keyboard or remote control

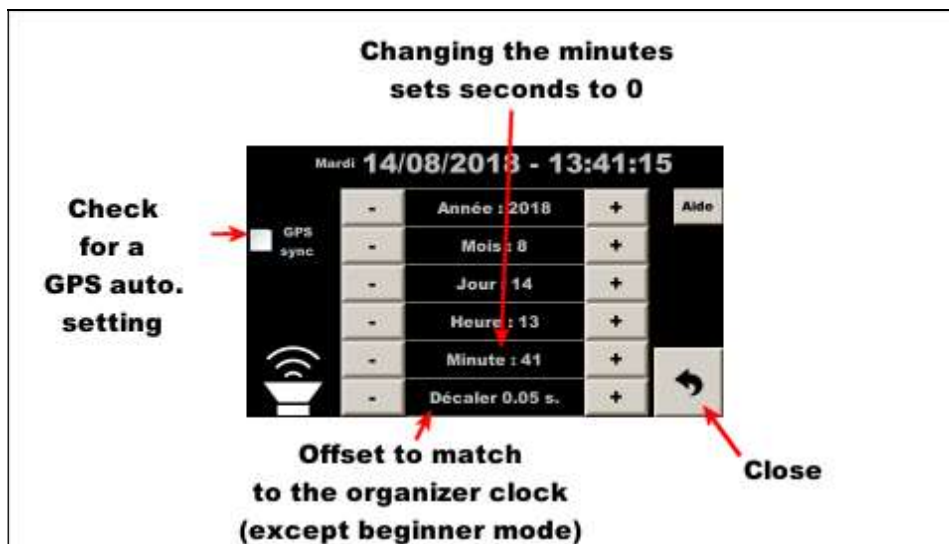
Distance to anticipate the announcement

6.6 Date / hour setting

with GPS auto-synchronisation:



manual setting:



6.7 Guidance options

Beep: low tone to slow down or acute to accelerate

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

Check if pilot screen connected

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

When T1 reset to 0 makes T2 reset to 0

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

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

Reverse red/green on windshield LEDs

Reverse red/green on screen

Windshield LEDs power

Enable the automatic correction by GPS

Automatic start detection by GPS

Info on distance differences compared to GPS (expert mode)

Check if T1 is not reset to 0 at RT start

6.8 Display configuration

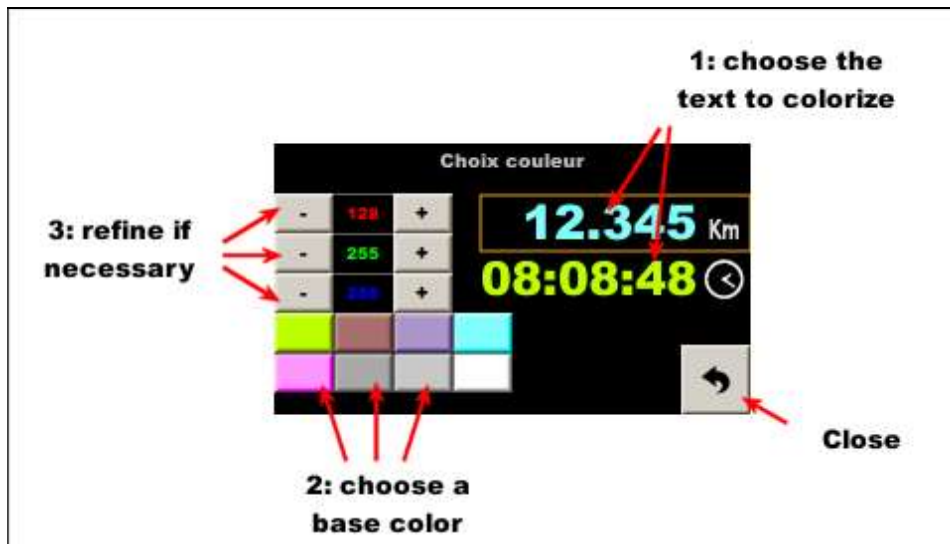
Press the thumbnails of unwanted pages. A cross indicates that they are no longer displayed.

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

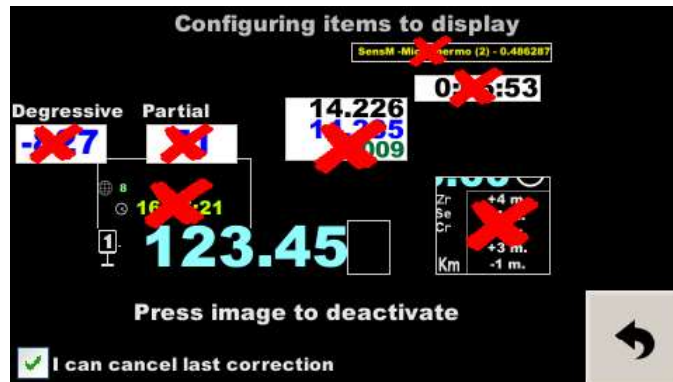
Press the "Config" button to configure the display of certain pages:



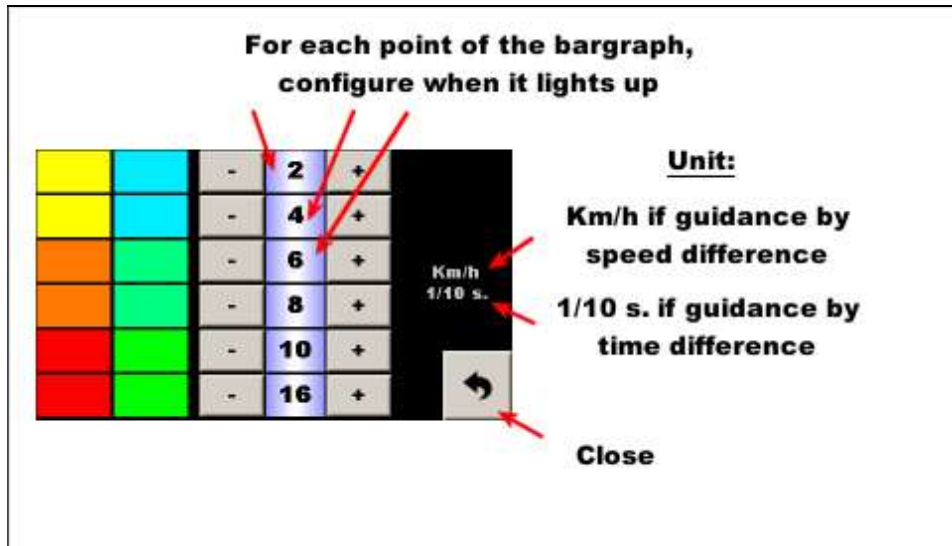
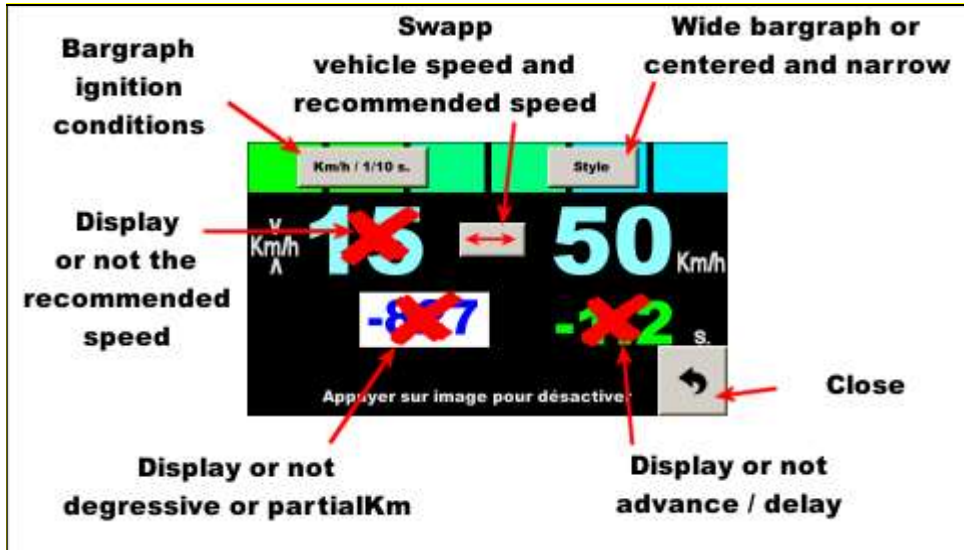
Press the color palette button to set the text color:



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



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



6.9 Files recording

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

Check to record a extra NMEA file

Distance between 2 recorded points

Number and size of files in memory

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

Formatting (Reset)

The screenshot shows a menu with the following elements:

- Top left: 'Enregistre reconnaissances' with a checked box and '0.010 Km : distance entre 2 pts'.
- Top right: 'NMEA' with an unchecked box and 'Aide'.
- Middle: 'Enregistreur de données' showing '5 fichier(s) (27.0 KB)' and '1 en archive (17.0 KB)', with the instruction 'Insérer une clef USB pour accéder'.
- Bottom: 'Formate clef USB' button and a circular arrow icon.

RT preparation files:

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

Other recorded files:

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

Copy / delete archive files (if exist on internal disk)

Software update (if found on the USB drive)

The screenshot shows a file management menu with the following elements:

- Top right: 'Aide'.
- Three main options: 'Importe données ZR (moyennes, GPS...)', 'Exporte données ZR (moyennes, GPS...)', and 'Exporte enregistrements (ZR, recos...)'. Each option has a USB drive icon above it.
- Right side: 'Import', 'Export', and a circular arrow icon.
- Bottom: A circular arrow icon.