

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 display shows a frozen distance of 122.896 (black) and a correction value of -0.104 (blue). The total distance is 123.000 (black). The unit is Km.

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 stopwatch display with 10:41:00. Buttons include a hand icon, a left arrow, +30 s., Aide, -30 s., and a back arrow. The unit is Mode circuit.

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...

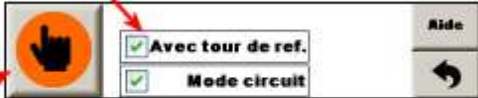
... push the chrono value to make appear the "Stop" button

Start automatic on time



Use the "Stop" button to stop the timer

The interface shows a stopwatch display with 10:42:00. Buttons include a clock icon, a left arrow, +30 s., Aide, -30 s., and a back arrow. The unit is Mode circuit.

1: check



2: start at the beginning of the reference lap

Circuit mode with reference lap

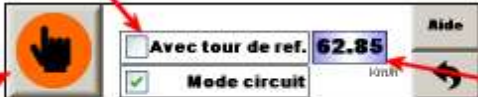
then...

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

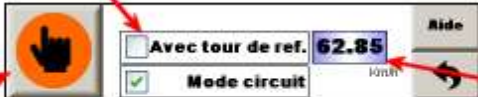
Number of laps 0: reference lap → 4

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

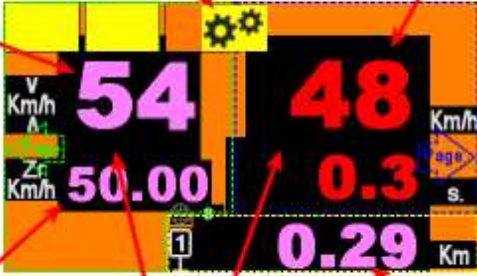
then...

...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

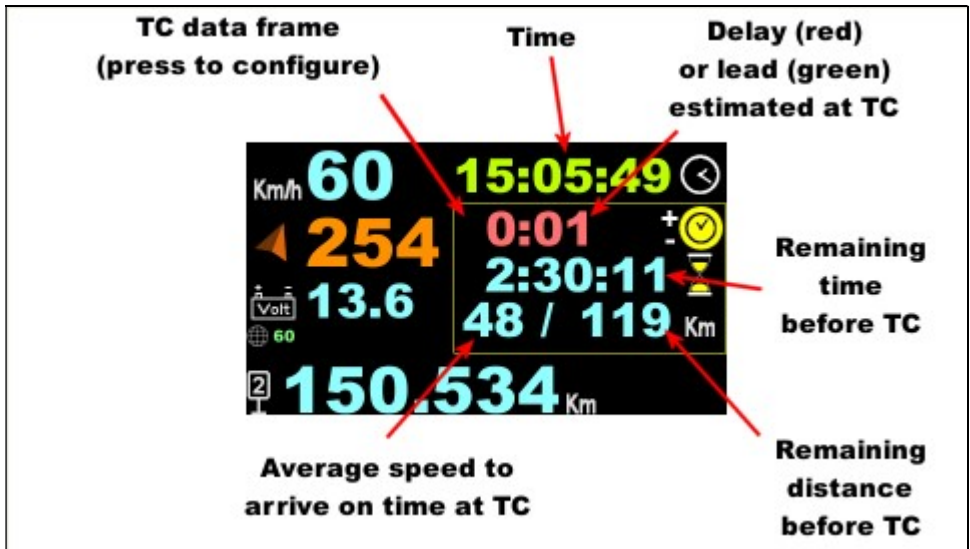
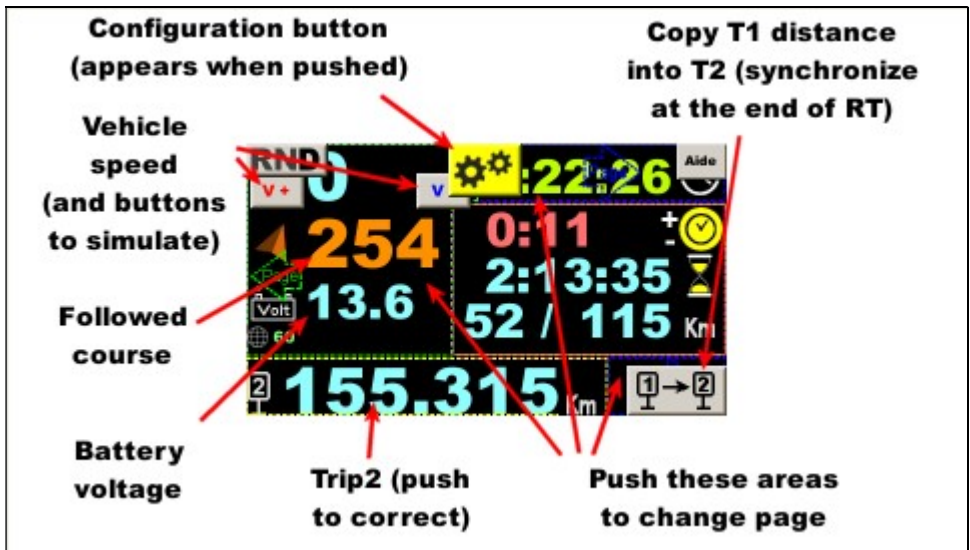
Recommended speed (avoids the yo-yo)

Average speed for the segment

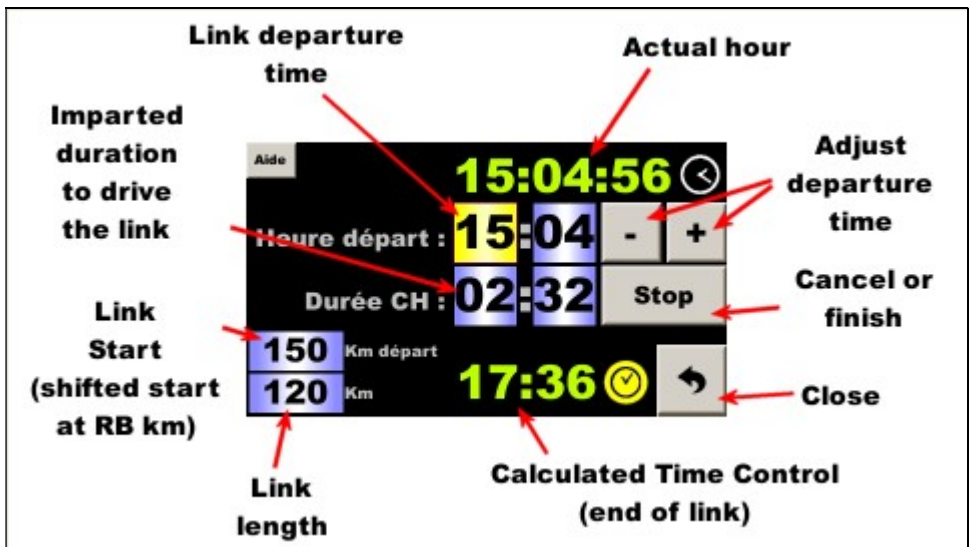
Push these areas to change page

Trip1 (push to correct)

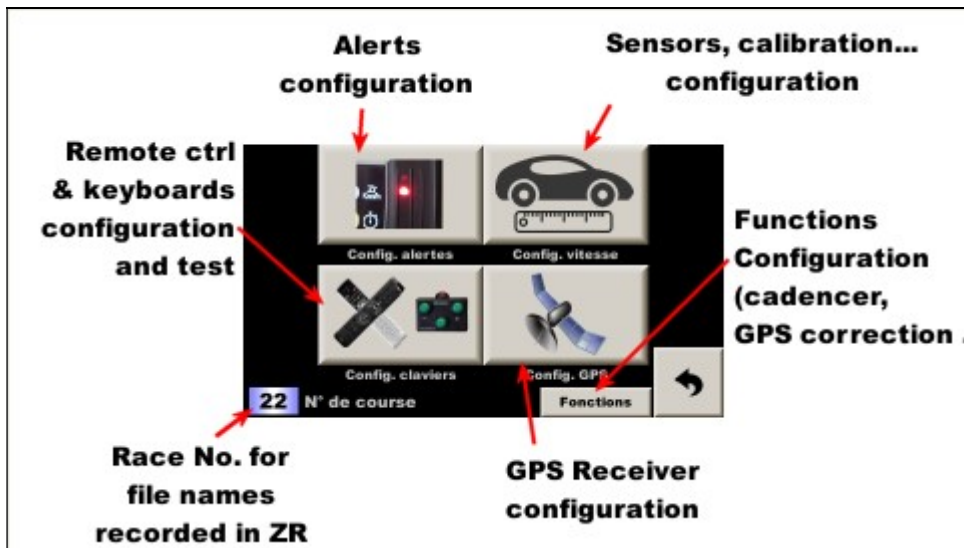
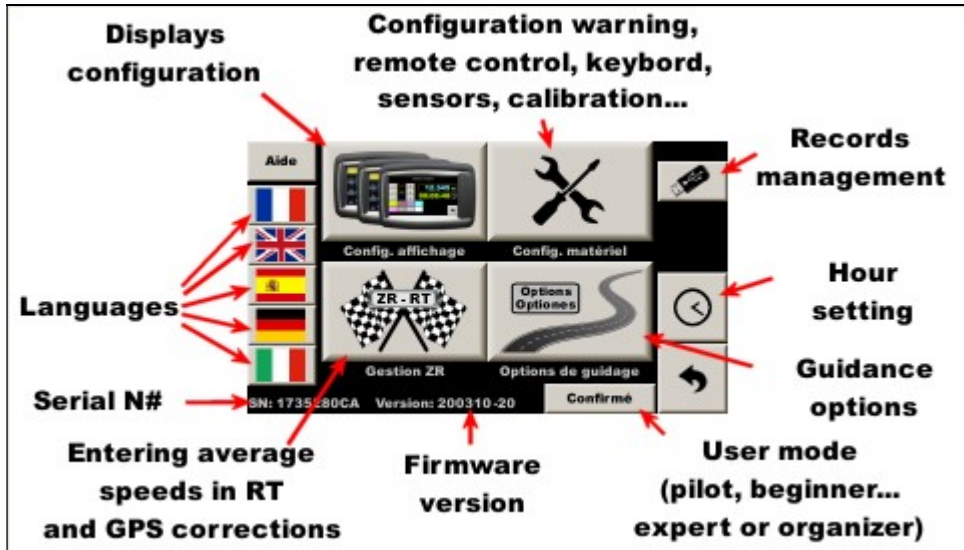
5 « link » page



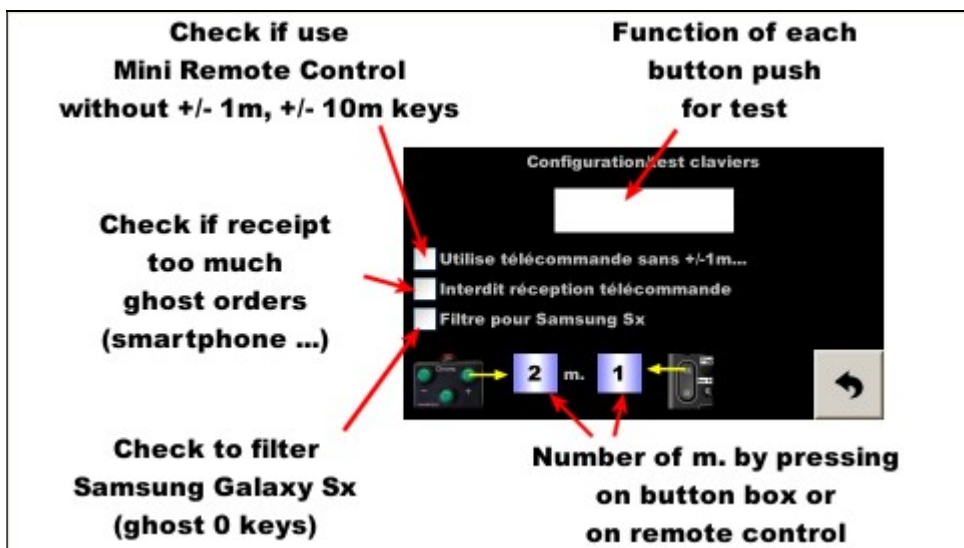
set ideal TC hour:



6 Configuration



6.1 Infrared remote control and button box configuration and test



6.2 Sensors configuration, calibration...

1: choose type of connection

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

4: go to calibration page

Close

Wheel sensor monitoring:
(help with connecting the sensors)

To compare L wheel with R wheel

To compare wheels with GPS

maximum error tolerated before alert

monitoring distance

Popup displayed if error detected:

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)

km of beginning and end of segment

Speed on the segment (km/h)

Trip1

Close

Scroll the lines

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	▼
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

New file

Adjust distances

Distance since last manual point

Delete the last point

Trip1

GPS reception quality

Scroll the lines

Ind	Km	Latitude	Longitude	Commentaire	Début	Fin
275	13.069	48.45465	6.92088	156		
276	14.019	48.45428	6.92127	142		
277	14.069	48.45390	6.92166	140		

GPS points manual entry

1: type a comment (optional)

Ind	Km	Latitude	Longitude	Commentaire
275	13.969	48.45465	6.92088	156
276	14.019	48.45428	6.92127	142
277	14.069	48.45390	6.92166	140

2: add a point

GPS points automatic entry

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

Ind	Km	Latitude	Longitude	Commentaire
275	13.969	48.45465	6.92088	156
276	14.019	48.45428	6.92127	142
277	14.069	48.45390	6.92166	140

1: type distance between two points

2: check

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 on the road:

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

Match the boxes from the road book at the end:

Enter distances from the organiser's road-book

Ind	Commentaire	Mesuré	Orga.	Diff.	Nbr : 14
1	Depart	0.0	0.0	0	
12	C 49	0.52	0.525	-2	
21	C 50	0.955	0.958	-3	
33	C 51	1.529	1.53	-1	
54	C 53	2.572	2.57	2	
86	C 55	4.167	4.164	3	
92	C 57	4.452			
109	C 58	5.276			
120	C 59	5.83			
126	C 60	6.101			
144	C 61	6.982			

Number of lines

Display differences graphically

Delete entered distances

Proposed index for normalised file (will be created)

Start normalization

Configuration des corrections par GPS Aide

- 0.015 Dist. mini entre points saisis (km)
- 0.012 Correction maxi (km)
- 60 % de correction de distance
- 0.300 Détection manque de correction (km)
- 20 Vitesse mini pour correct. (km/h)
- "Auto Km" activé après appui bouton

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

Delete the last point

Total number of points

Scroll the lines

Distance added during import

Distance to anticipate the announcement

Optional popup in RT

1-Enter distance: keyboard or remote control

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

New file

Distance **Repère** **Supprime** **0.000** **0.200**

Ind Km
72 23.340
73 23.604
74 23.775

Supprime Nbr : 74
Aide
Debut
Pno >
Pto >
Arrivee
Affiche les commentaires
Fin

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

-	GMT : 2 h	+	Aide
-	Décalage : 0 mn	+	
-	Décalage : 0 s	+	
-	Décalage : 0 cent	+	

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

-	Année : 2018	+	Aide
-	Mois : 8	+	
-	Jour : 14	+	
-	Heure : 13	+	
-	Minute : 41	+	
-	Décaler 0.05 s.	+	

6.7 Guidance options

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

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

Check if pilot screen connected

Option for colour blind

Lead/delay calculation 2 times faster

Inverting red/green of LEDs or display

Countdown beeps for Italian pipes (option)

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

Adjust lighting power (screen and Leds)

Beep: low tone to slow down or acute to accelerate. Set the level here or on remote control:

To use 2 LED6 modules (one for lead and one for delay)

Enable the auto. correction by GPS

For 2 warnings when approach end of distance

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

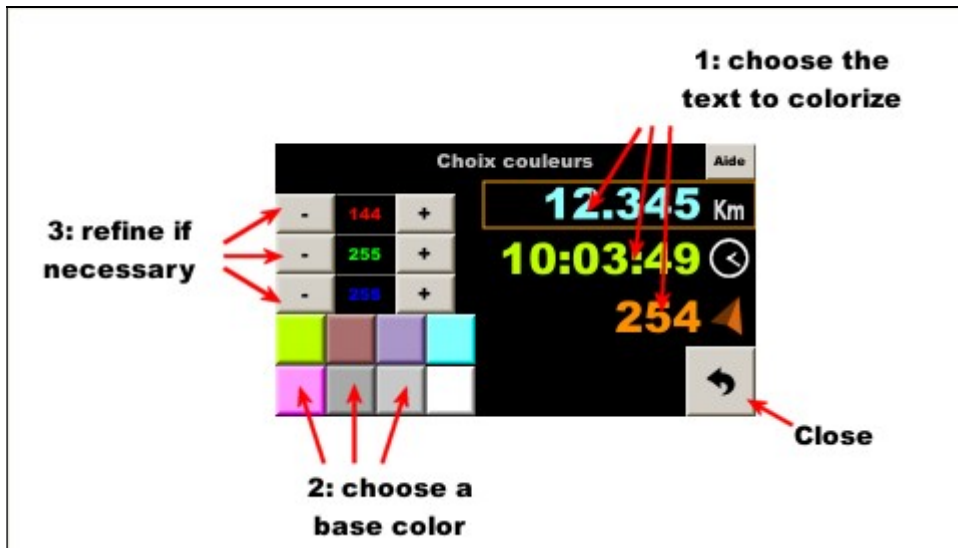
Press the thumbnails of unwanted pages. A cross indicates that they are no longer displayed.

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

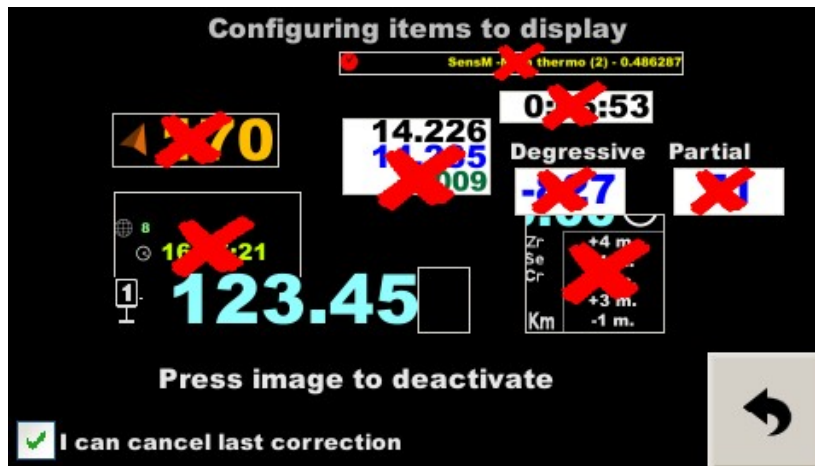
Press the "Config" button to configure the display of certain pages:



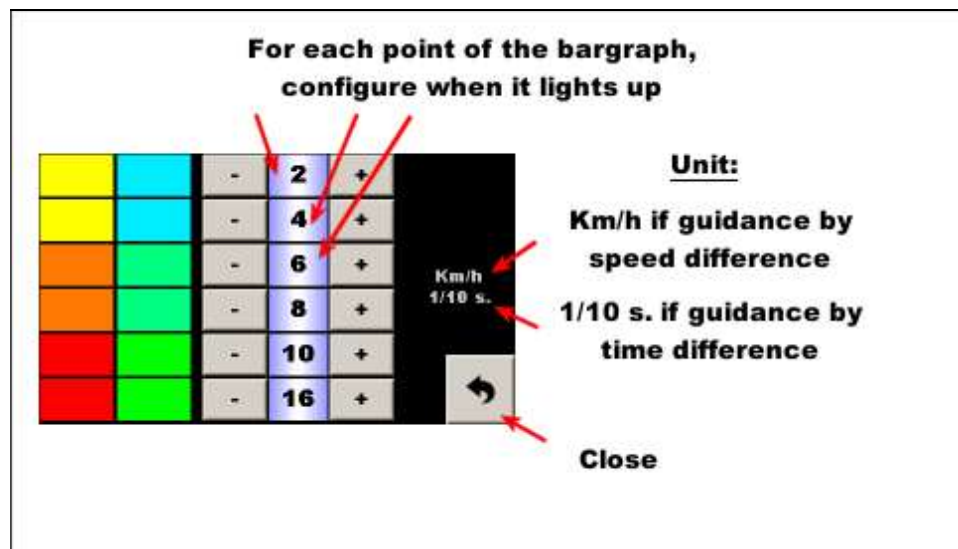
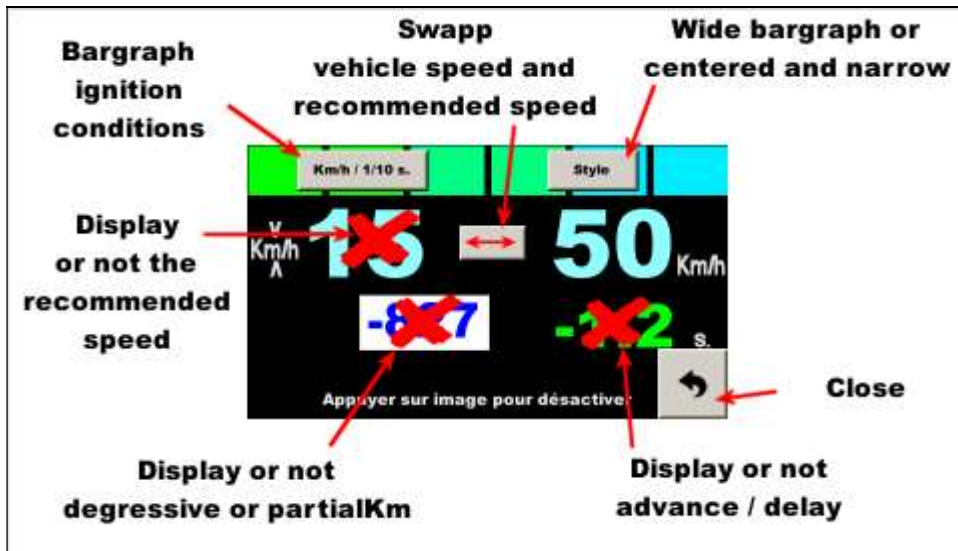
Press the color palette button to set the text color:



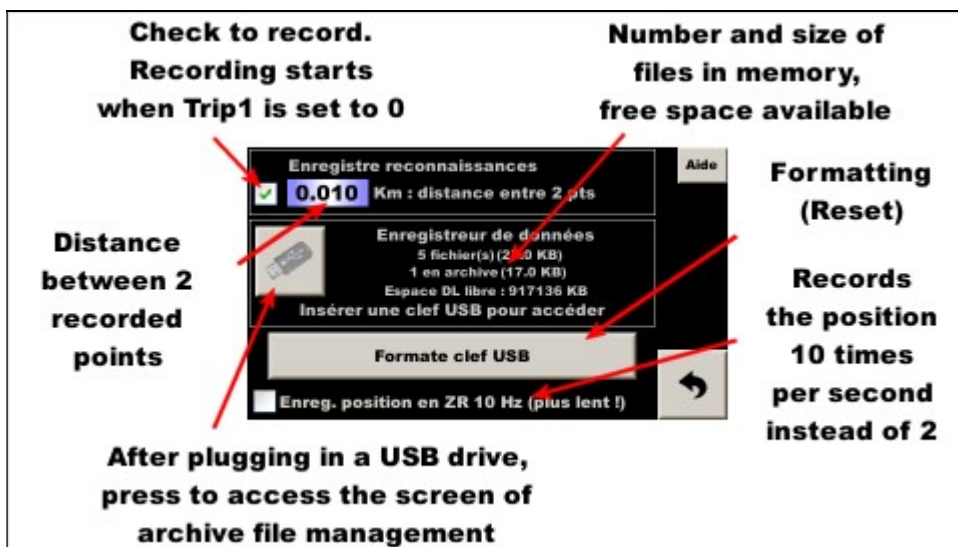
« codriver » page, remove some information pressing on images:



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



6.9 Files recording



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

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

Software update (if found on the USB drive)

The screenshot shows a software interface with three main menu items: 'Importe donnees ZR (moyennes, GPS...)', 'Exporte donnees ZR (moyennes, GPS...)', and 'Exporte enregistrements (ZR, recos...)'. To the right, there is a vertical sidebar with icons for 'Aide', a refresh symbol, and a back symbol. Red arrows point from the text labels to the corresponding menu items and sidebar icons.