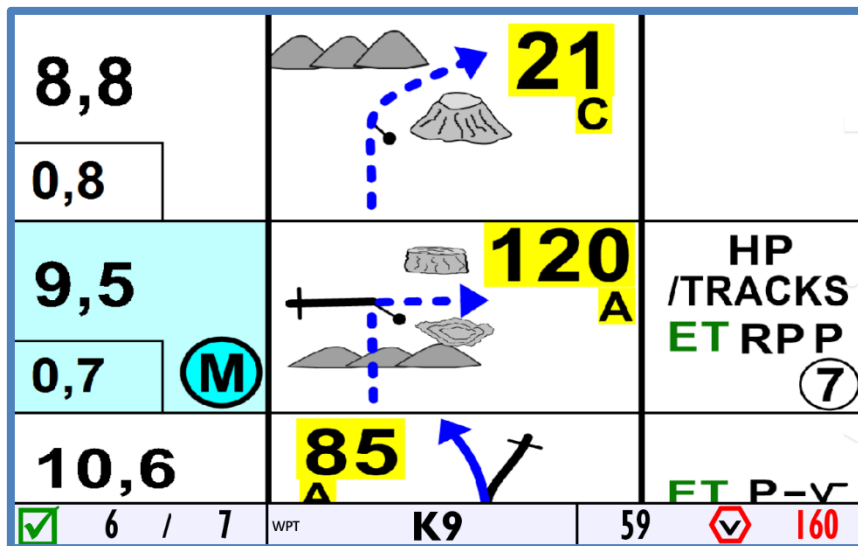


User Guide

GPS Unik4 Bike Rally Raid

☀ COMPETITOR ☀



V 3

Septembre 2024

ERTF Compétition

User Guide

GPS Unik 4 Bike

Evolutions of the document

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1 Screen modes

1.1 General screen

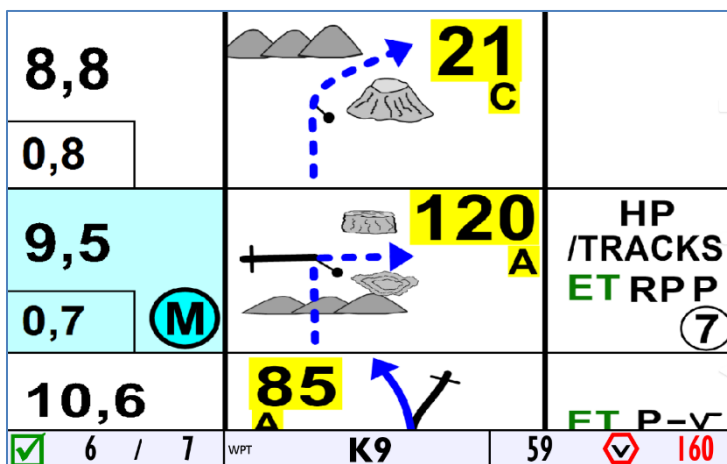
There are three types of screens. The desired format has to be selected in the parameters.

- Fullscreen
- Fullscreen 2 lines
- All in one

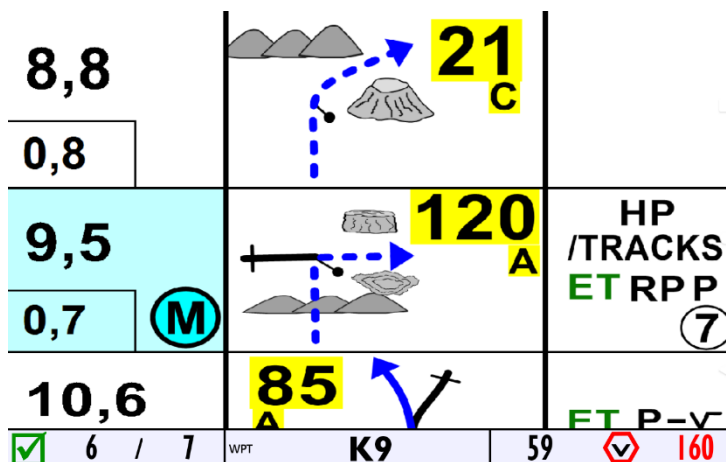
1.1.1 Fullscreen

This mode is to be used whenever the pilot is equipped with at least one Speedocap. This way, the Unik4 is mainly used as a Roadbook.

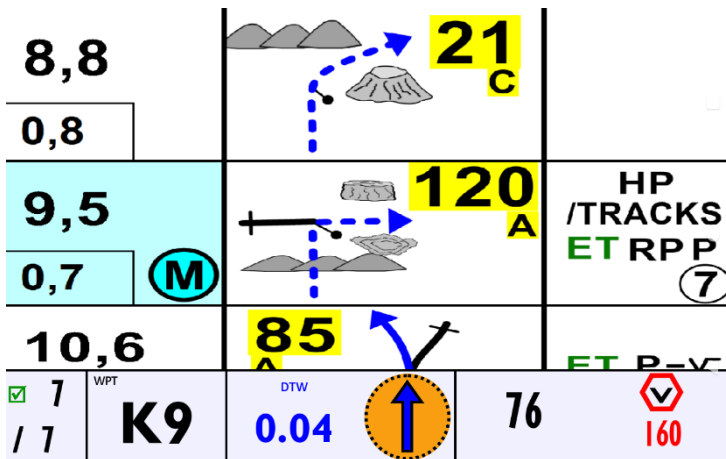
a) Outside visibility radius



b) Within visibility radius



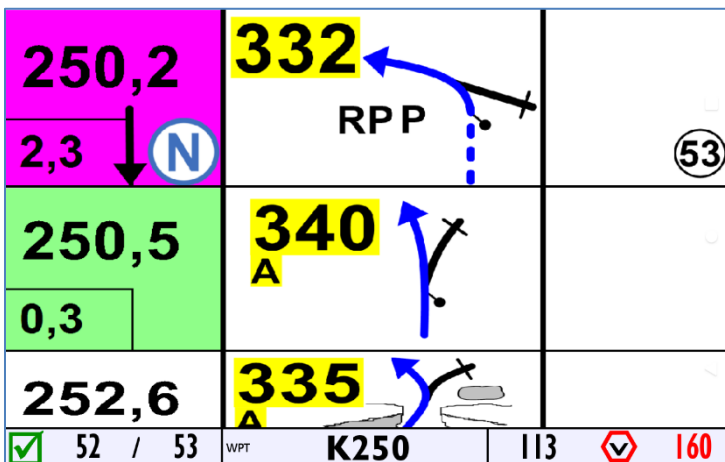
c) Within validation radius



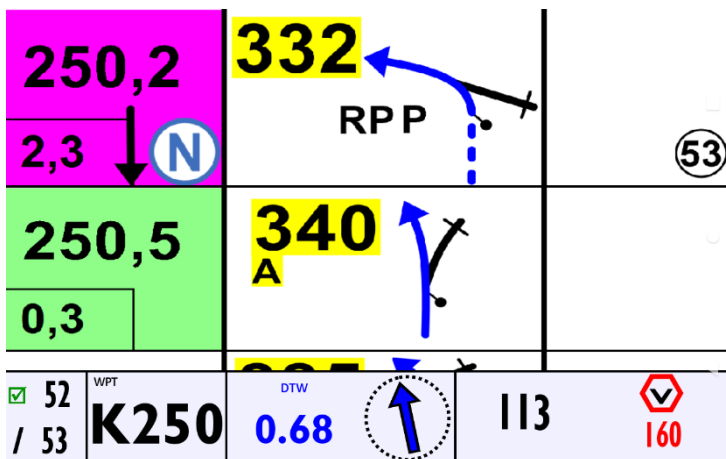
1.1.2 Fullscreen 2 lines

Same as Fullscreen but the first two lines are bigger whereas the third line is cut.

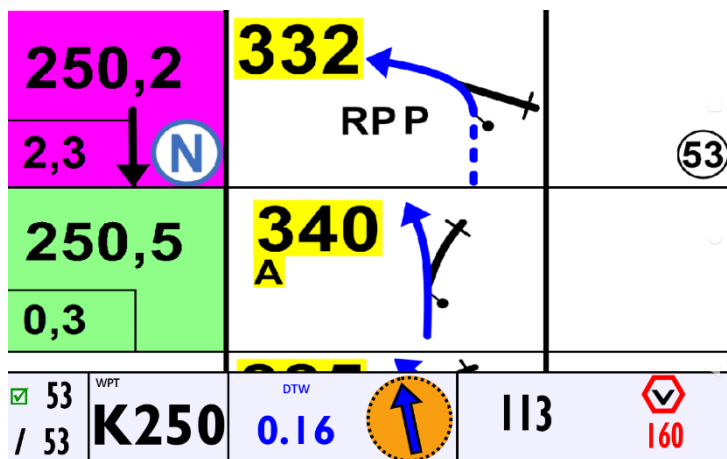
a) Outside visibility radius



b) Within visibility radius

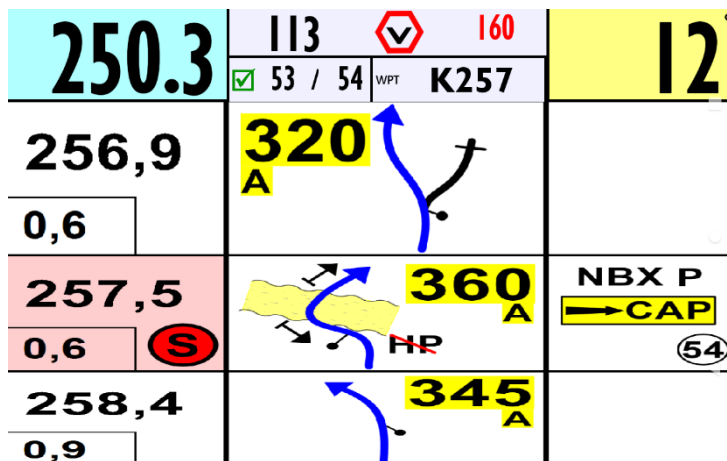


c) Within a Waypoint



1.1.3 All in one

a) Outside visibility radius



b) Within visibility radius

Total Odometer

Speed

COG = Cap suivi

Annotations:

- Total Odometer: 256.0
- Speed: 113
- DTW: 160
- COG = Cap suivi: 0.92
- Heading: 12°
- Waypoint 320 (A)
- Waypoint 360 (A)
- Waypoint 345 (A)
- Number of validated Waypoints: 53 / 54
- Number of the target Waypoint: 53
- Name of the target Waypoint: K257

c) Within a Waypoint


Annotations:


- Total Odometer: 257.5
- Speed: 113
- DTW: 160
- COG = Cap suivi: 0.03
- Heading: 12°
- Waypoint 320 (A)
- Waypoint 360 (A)
- Waypoint 345 (A)
- Number of validated Waypoints: 54 / 54
- Number of the target Waypoint: 54
- Name of the target Waypoint: K257

1.2 Power supply and satellite icons

The cell indicates the power supply status :

No icon: All clear, power supply from the vehicle battery.

 Fixed cell: Low battery, charging, power supply from the vehicle battery.

 Blinking cell: Power supply from the internal battery of the Unik4; quickly review your installation before battery discharge.

The bell indicates the sat signal status:

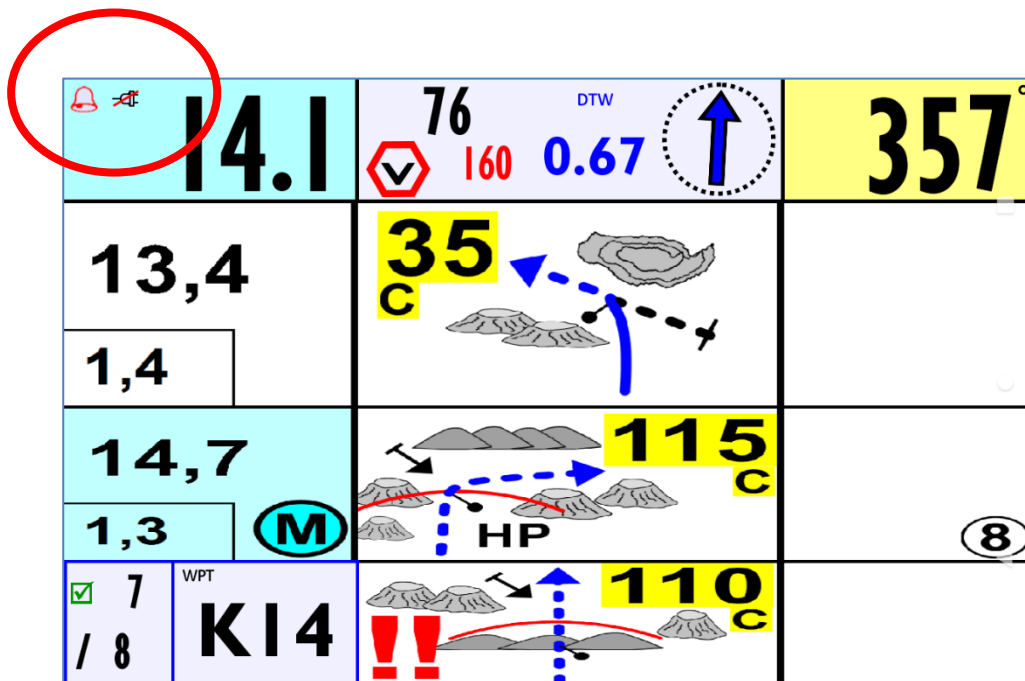
No icon: All clear, good signal.



Fixed bell: No sat signal, check your installation.



Blinking bell: Sat signal from the internal antenna of the Unik4, check your installation



1.3 With global speed limitation by category

8,8		
0,8		
9,5		HP /TRACKS ET RPP
0,7		
10,6		ET P-v
<input checked="" type="checkbox"/> 6 / 7	WPT K9	59

1.4 With speed limit zone

239,8		
0,3		
240,3		
0,5		
245,4		
<input checked="" type="checkbox"/> 50 / 51	WPT FZ240	ENTER AT 14:19:04 EXIT in 17 mn 58 s
	DTW 0.56	NEUTRALISATION AREA
		30

1.5 Neutralization

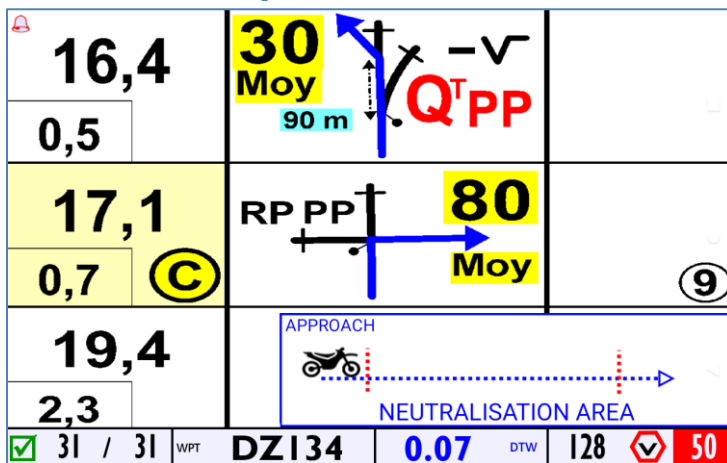
There are three phases :

- The approach of the neutralization
- The neutralization
- The exit of neutralization

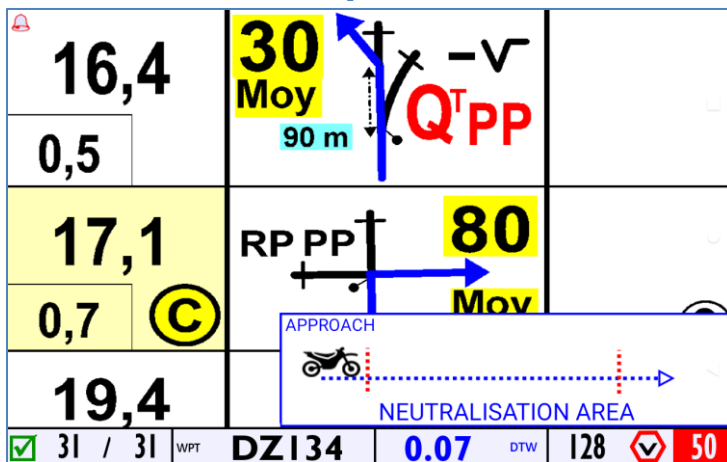
1.5.1 Approach

Whenever the pilot is at the beginning of the neutralization Waypoint, we warn the pilot with the following screen:

1.5.1.1 Fullscreen presentation



1.5.1.2 Fullscreen2 lines presentation



1.5.1.3 All in one presentation

134,5 0,3 DZ	36 0.07 DTW	50 ↑	21
134,6 0,3 DZ		↑	50 NEU.IN T:15min 31
135,0 0,4		RO MOTO QUAD ↑	50
31 / 31 WPT DZ134		APPROACH MOTO ↑	NEUTRALISATION AREA →

1.5.2 Neutralization

As soon as the pilot goes through the center of the Neutralization Waypoint entry, the countdown starts:

1.5.2.1 Fullscreen presentation

239,8 0,3		MOTO QUAD T3 T4 ↑	30
240,3 0,5 FZ	359 ^C ↑	↑	(FN)
	ENTER AT 14:19:04	EXIT in	17 mn 40 s
	NEUTRALISATION AREA →		
50 / 51 WPT FZ240	DTW 0.56	↑	30 30

1.5.2.2 Fullscreen 2 lines presentation

239,8 0,3		MOTO QUAD T3 T4 ↑	30
240,3 0,5 FZ	359 ^C ↑	↑	(FN)
	ENTER AT 14:19:04	EXIT in	17 mn 40 s
	NEUTRALISATION AREA →		
50 / 51 WPT FZ240	DTW 0.56	↑	30 30

1.5.2.3 All in One presentation

239,9	30 DTW 30 0.56	60°
239,8	MOTO QUAD T3 T4	30
0,3		
240,3	359 ^C HP CX BAD	(FN) (30) (51)
0,5		
50 / 51 WPT	FZ240	ENTER AT 14:19:04 EXIT in 16 mn 44 s NEUTRALISATION AREA

1.5.3 Exit of the Neutralization

Whenever the countdown ends, the pilot is warned by the following screen and can then exit the neutralization :

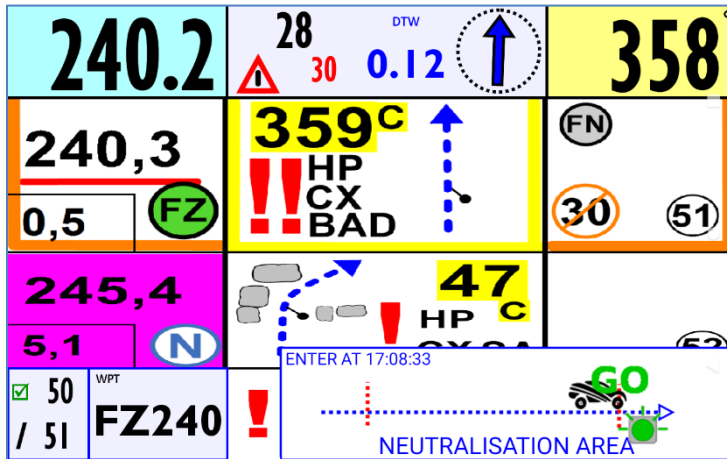
1.5.3.1 Fullscreen presentation

240,3	359 ^C HP CX BAD	(FN) (30) (51)
0,5		
245,4	47 HP C	
5,1		
247,9		NEUTRALISATION AREA
50 / 51 WPT	FZ240	DTW 0.12 28 30

1.5.3.2 Fullscreen 2 lines presentation

240,3	359 ^C HP CX BAD	(FN) (30) (51)
0,5		
245,4	47	
5,1		
50 / 51 WPT	FZ240	DTW 0.12 28 30

1.5.3.3 All in One presentation



2 The Unik4 buttons

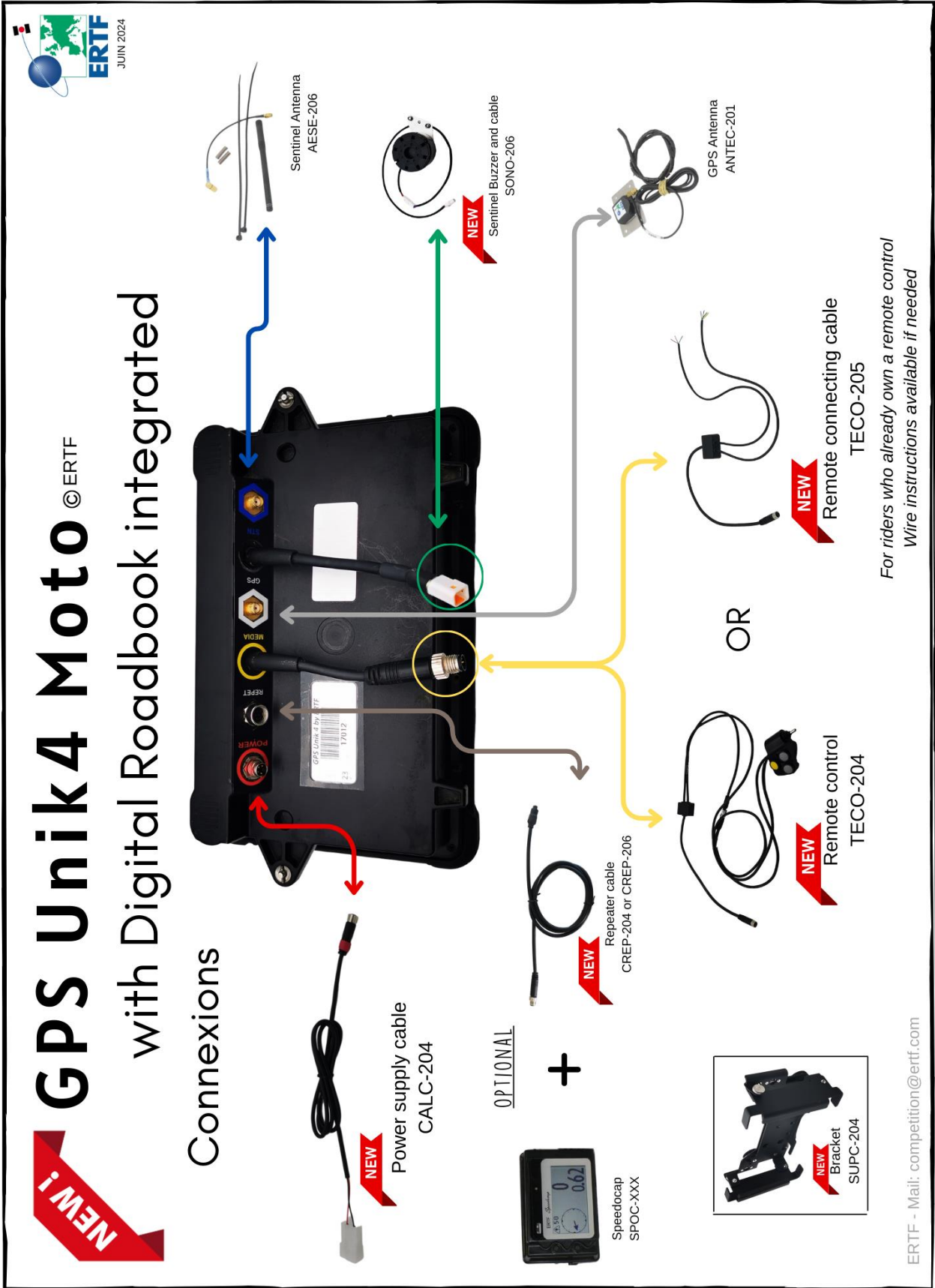


To put in standby or to wake from standby
More information in paragraph 5.



A long press to open the Parameters Menu;
more details in paragraph 7.

3 Connections



4 Remote control

4.1 Actions

There are 5 possible actions :

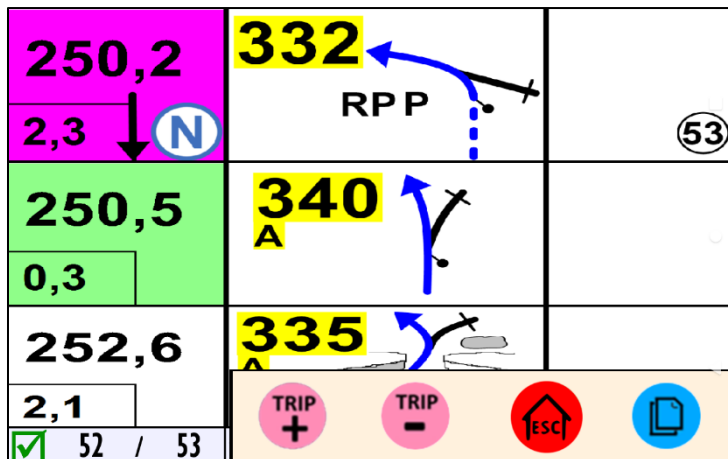
Moving the Roadbook forward or backward, using the switch.

Increase or decrease the Trip (black buttons on the ERTF remote)

Access the Menu (yellow button).

4.2 Virtual remote

In case the remote is damaged and unusable, you can activate a virtual remote by pressing the screen on the bottom right for 3 seconds.



4.3 Accessible screens via Menu

4.3.1 Menu access



Using the Menu button of the remote control (yellow button) or using the virtual remote.

The Menu button allows you to access several screens.

While riding :

Waypoint + and - // Trace // Validated CP table

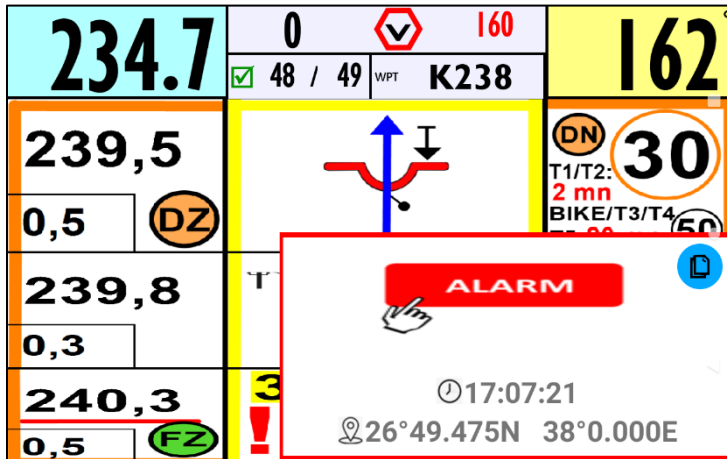
Whenever the pilot standstill :

Alarm-Clock and Position screen // Waypoint + and - // Trace // Validated CP table //control screens that are used at arrival as well as Waypoint list.

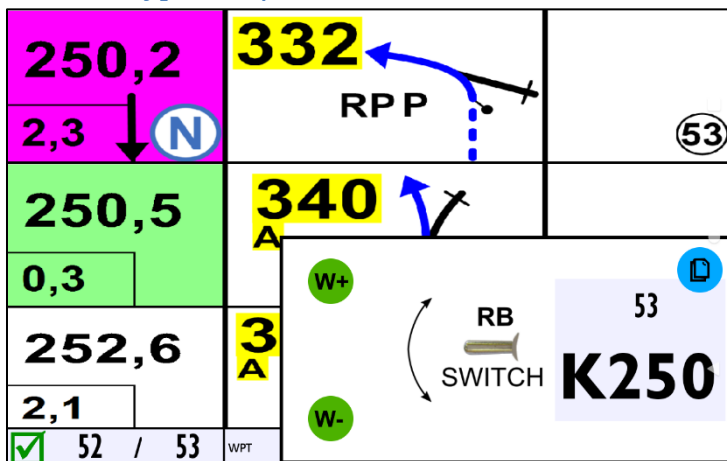
Those screens aren't visible when riding because they are not considered useful then.

A long press on the Menu button allows you to exit these screens.

4.3.2 Alarm/Clock and Position screen (visible when stopped)



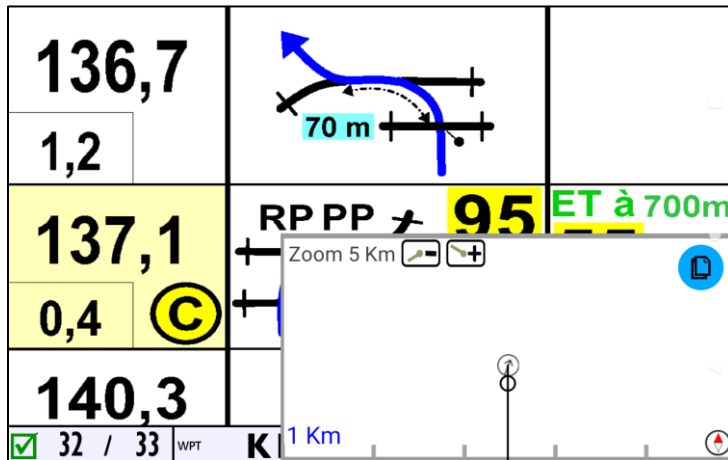
4.3.3 Waypoint + / - Screen



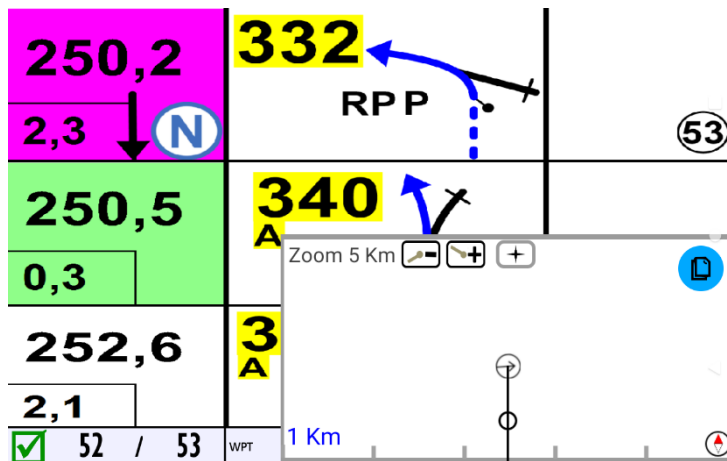
Note that this screen disappears automatically after 5 seconds to avoid mistakes.

4.3.4 Trace screen

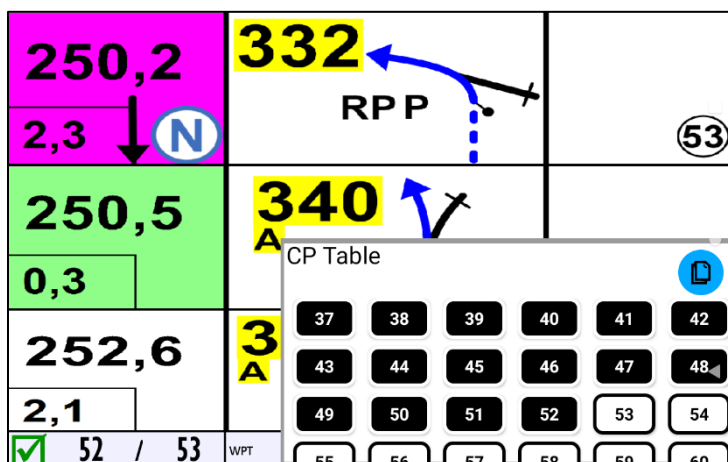
a) With the compass rose



d) Without the compass rose



4.3.5 CP screen




5 Standby/Switch OFF mode of the Unik4

Whenever you arrive at camp, don't forget to switch OFF the Unik4 or to put it on standby.

If the battery isn't completely full when arriving at camp, you have to wire the Unik4 to an external power source.

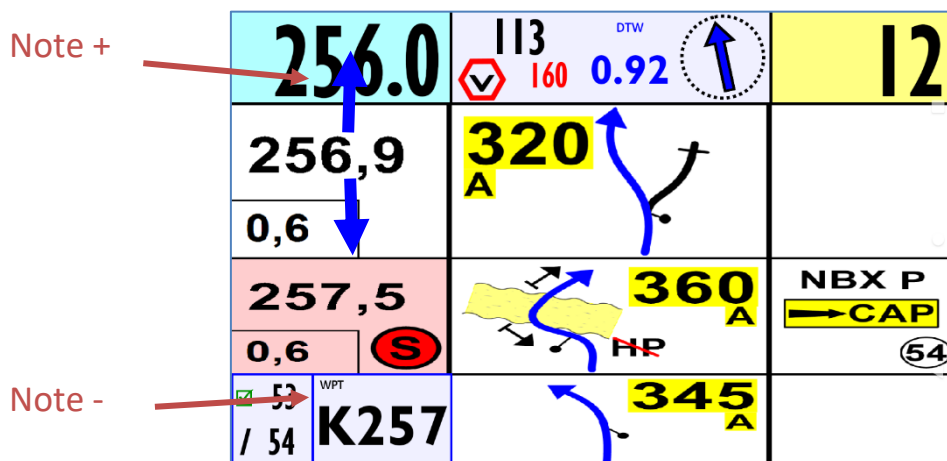
The Unik4 battery capacity is the same as the bike battery, so it can empty the vehicle battery if you are not careful.

It is strongly advised to switch the Unik4 OFF during night time.

At morning, a short press on the button  of the Unik4 will exit the standby mode. If it had been switched OFF, a 3 seconds press should switch it on.

6 Degraded mode

If the remote is damaged or isn't working anymore, you can still move the Roadbook forward or backward by using hidden arrows.



To access these arrows, you have to activate the "Touchscreen" function by accessing the parameters.

When it is done, press the screen where the arrows are located to use them. They disappear automatically after a few seconds.

7 Parameters

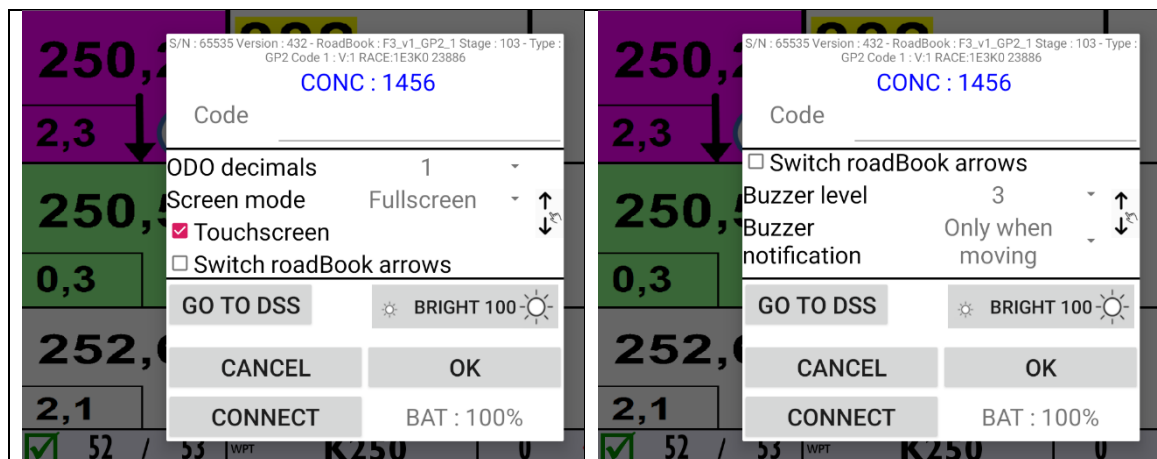


A long press on this button allows you to access the Parameters menu.

The screen is then divided in 3 parts:

- Some information at the top, like the race number as well as the stage code typing space.
- Parameters in the middle.
- And finally the actions (GO TO DSS, CANCEL, OK and CONNECT). GO TO DSS allows you to go straight to DSS.
Bottom right, the battery left in the device.

In the middle part, you can swipe through the parameters to access them all.



At the end of the Parameters list, an “expert” mode is visible.

This mode is taught by ERTF during training, but otherwise, there is absolutely no need to access and modify these parameters.

- Code Enter the stage Code and validate with “OK”.
- ODO decimals : usually 1
- Screen mode : allows you to choose between Fullscreen, Fullscreen 2 lines, All in one
- Touchscreen : Choose this mode if your remote control is broken. Allows you to use the virtual keyboard as well as to activate the Roadbook arrows.
- Switch RoadBook Arrows : Top left on the screen to move forward with the Roadbook.
- Brightness : To adapt the brightness of the screen. It is set on 100% but it should be adjusted at night.

- Buzzer level : allows you to choose the intensity of the buzzer = 1, 2 ou 3.

- Buzzer notification : the buzzer bips whenever you use Note +, Note -, W+, W-, or whenever you validate a Waypoint. There are three possible modes :
 - No, this function is deactivated
 - Yes, this function is activated at all times
 - Only when moving, the buzzer sounds only when moving.
 - Only WPT, the buzzer sounds when validating Waypoints, not when using the remote.