iRiS by GEOTRAQ

# IRIS-MINI
## NAV-GPS

# OPERATING INSTRUCTIONS






Version Release
July 2024

# CONTENT


## 1. About the Device
- Front Side, Back side, Phisycal Buttons ..... Page 3
- Mounting Hardware for Enduro / ATV ..... Page 4
- Mounting Hardware for Cars and SSV ..... Page 4

## 2. Getting Started
- Turn ON and Open Road Book ..... Page 5

## 3. Overview of the Screen
- Odometer and Naviagation Overview ..... Page 7
- NAV-GPS Overview ..... Page 7

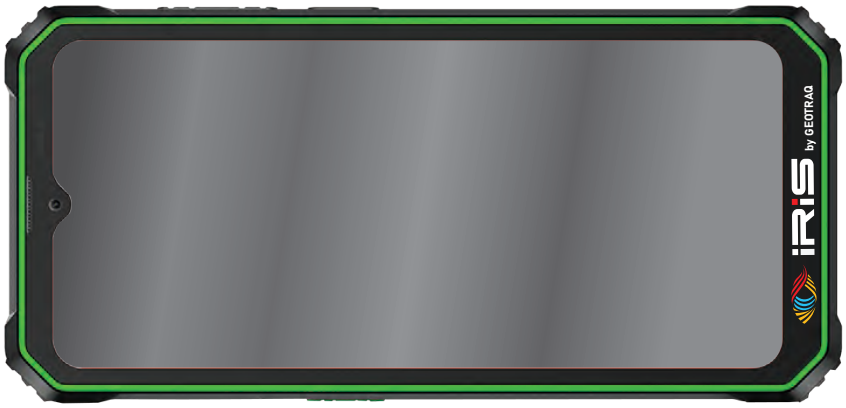
## 4. How it works
- Visual Buttons ..... Page 8
- Edit Ododmeter ..... Page 8
- Settings Menu ..... Page 10
- How to Exit Road Book and Change it ..... Page 11

## 5. Functionality
- Behaviour in Speed Limit ..... Page 12
- Warning for Global Speed Limit ..... Page 15
- Warning for Safety Waypoint - Danger Level 3 ..... Page 15
- Behaviour in Neutralisation and Transfer ..... Page 16
- Behaviour in Neutralisation and Transfer with speed limit ..... Page 17

## 6. Troubleshooting table
- Troubleshooting table ..... Page 18

## Front side

- Dimensions: 175mm x 82mm x 23mm

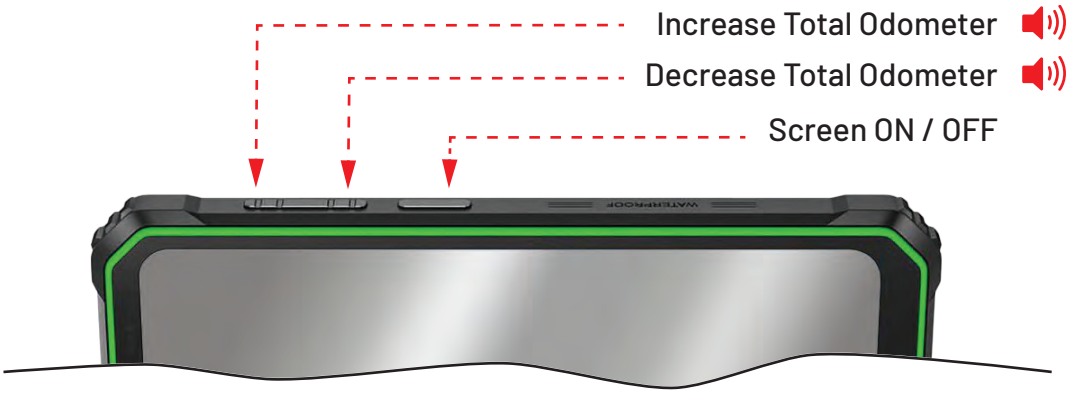



## Back side

- IRIS device with Quick Lock Mounting System



## Physical buttons




- Audio sound when pressed

## Mounting accessories for MOTORCYCLE / ATV



- Base bracket



- Double socket arm



- Handlebar U-Bolt Base

## Mounting accessories available for SSV / CAR / TRUCK



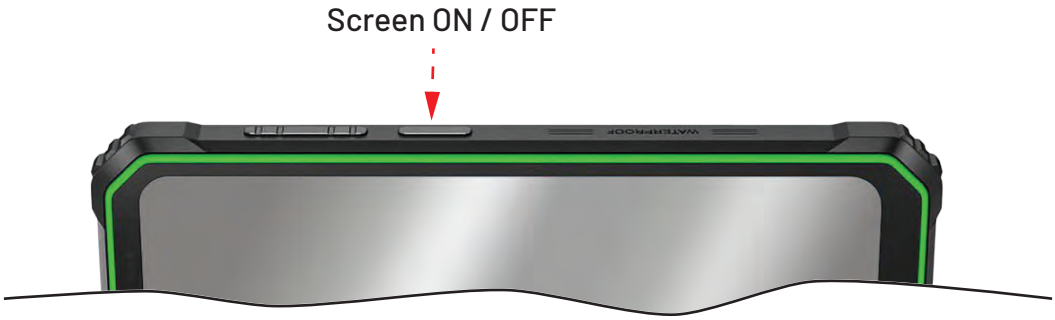
- Mounting clamp for Roll Cage



- Mounting base with L- shape bracket and hose clamp

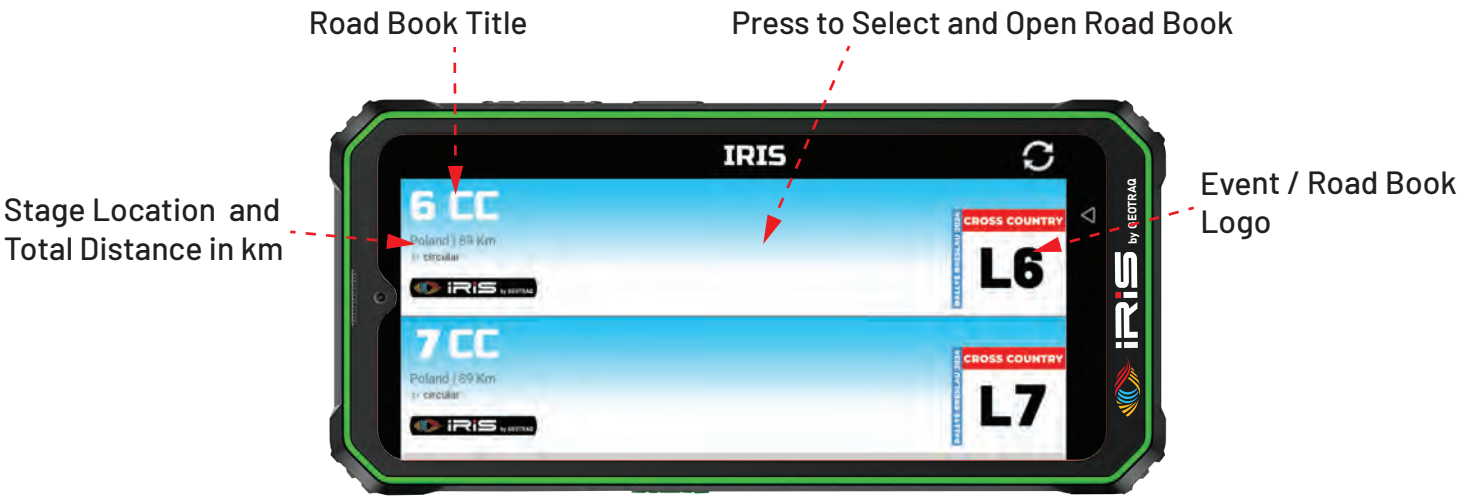
## Step 1

- The Screen ON / OFF button is located on top side. Press it to wake up the screen.




## Step 2

- A list with Road Books will be displayed. Only two Road Books, can be seen at the same time. By sliding you can see the whole list of Road Books.



## Step 3

- Open selected roadboook by pressing the Blue Button on the bottom of the screen.

Back to
SELECT ROAD BOOK

Road Book Title



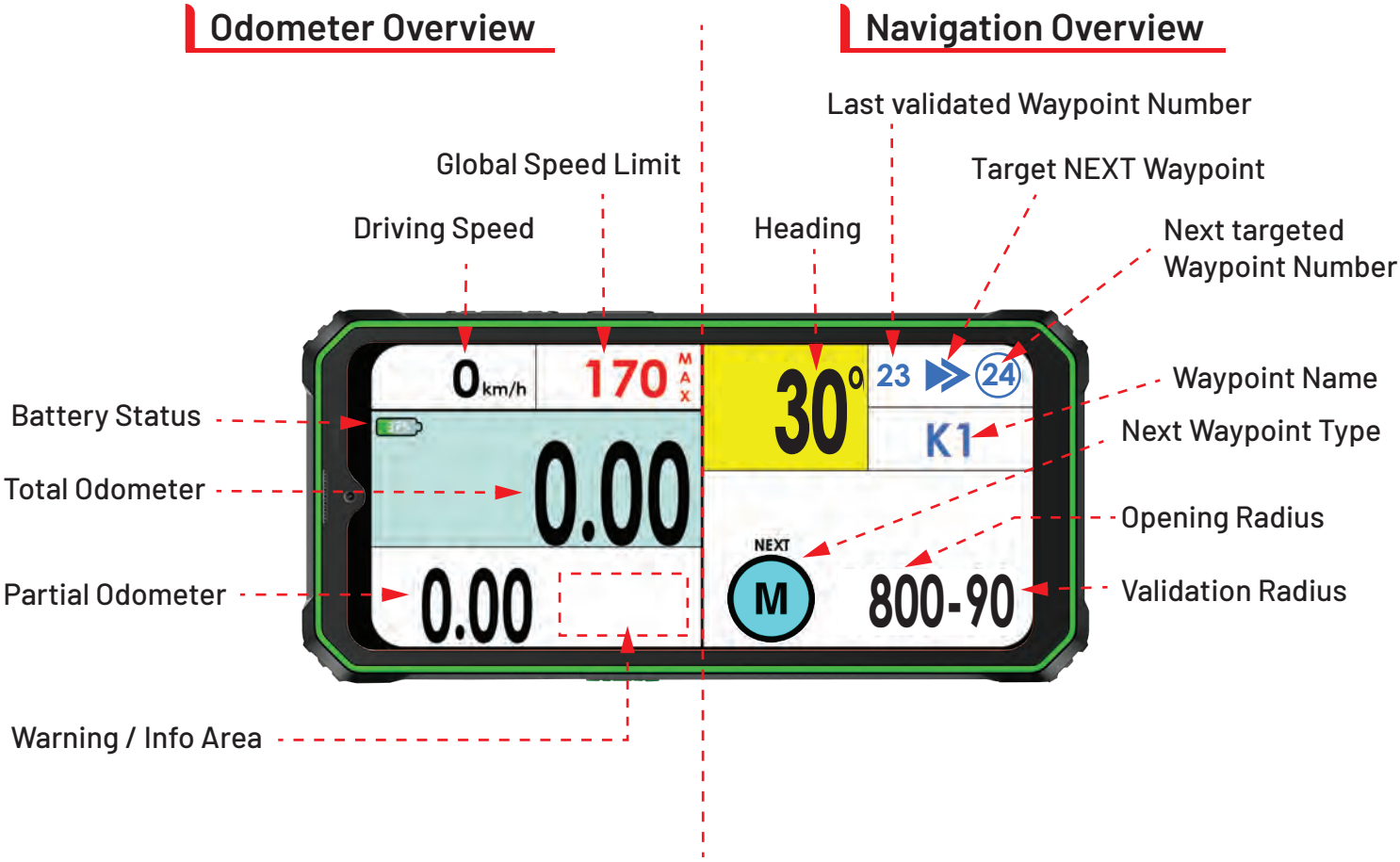

Map with Start and
Finish Point(s)

PRESS to Open the Road Book

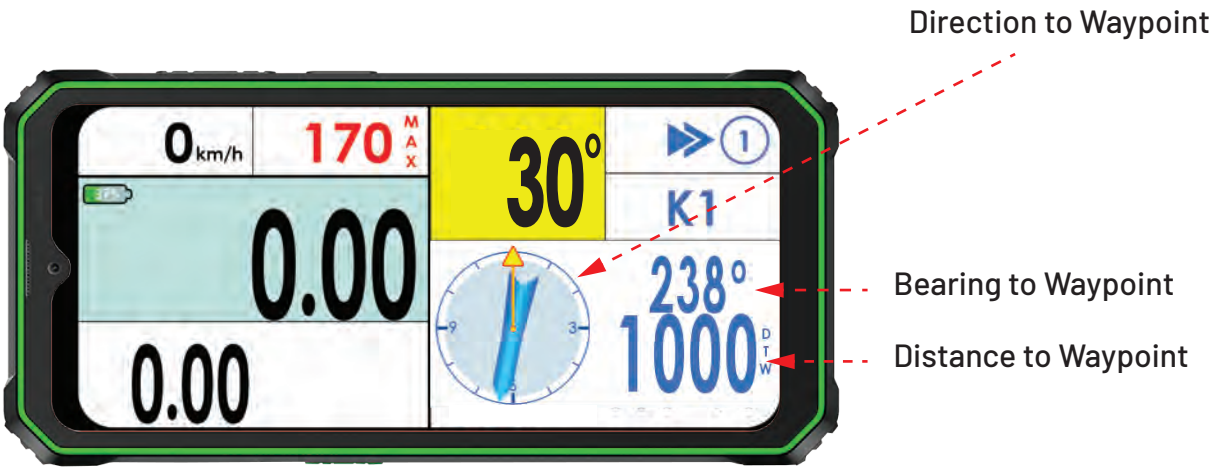
* The road book will open after a preset time, defined by the organizer. A reverse timer will count the time till opening.

## Odometer Overview

## Navigation Overview

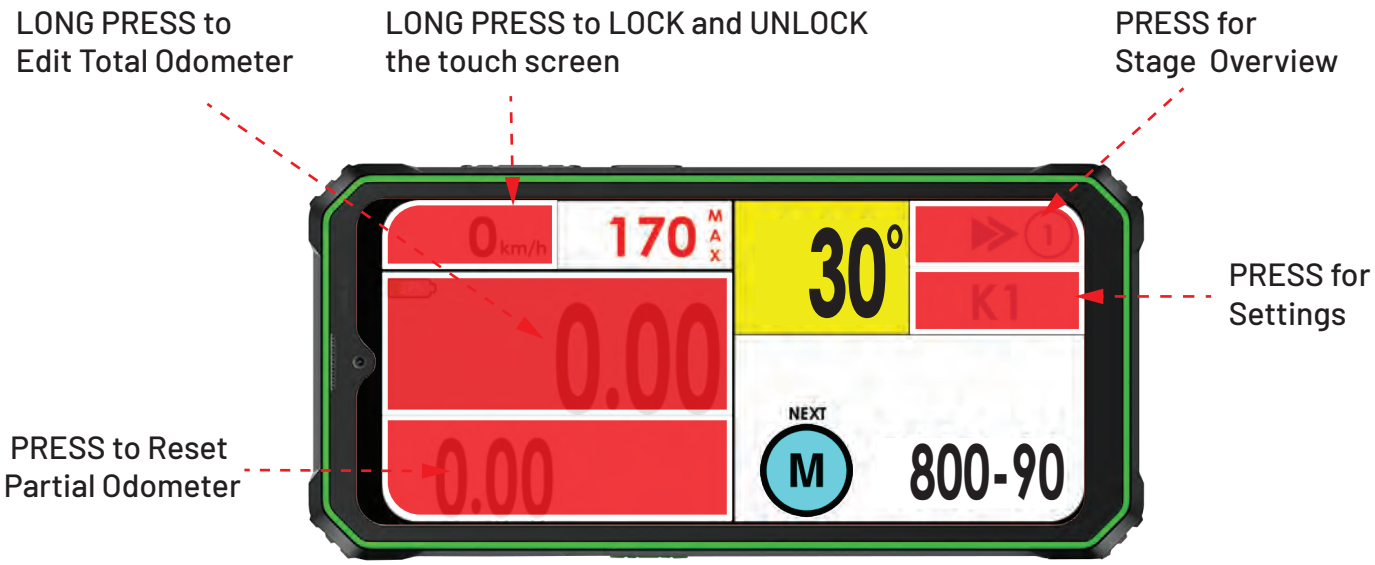



## NAV-GPS - When in opening radius



## Virtual Buttons

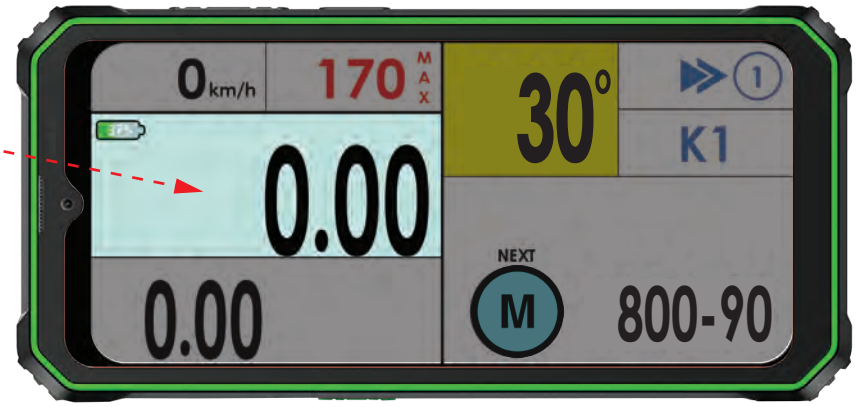
- Rectangles in red color show active area of the Virtual Buttons




## Edit Total Odometer

1.

- LONG PRESS the area of Total Odometer




2.

- Enter new Total Odometer value and confirm with OK

3.

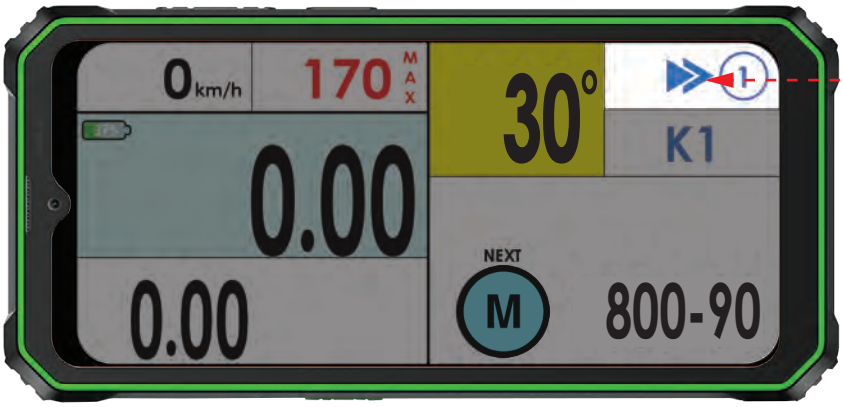
- Press here to Exit function



## Stage Overview

1.

- PRESS to see Stage Overview with all Waypoints

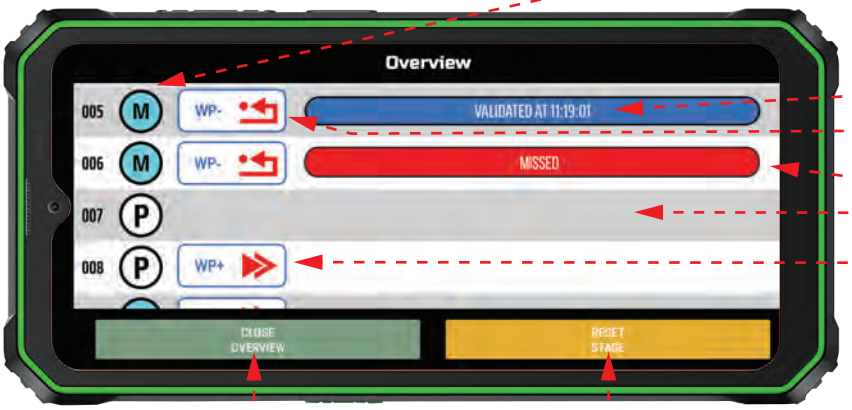



PRESS for
Stage Overview

2.

- Waypoint Overview Screen will be displayed

List of Waypoints in Chronological Order




Validation Time Stamp
Target Waypoint Behind (WP - )
Waypoint MISSED
Currently targeted Waypoint
Target Waypoint Ahead (WP + )

PRESS to exit Overview
and return to Road Book

**WARNING**

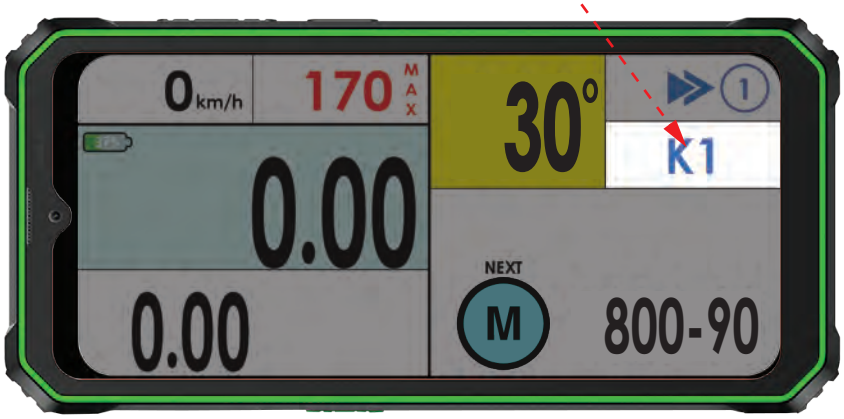
ONLY USE WHEN SURE!!!

PRESS to RESET Road Book
A dialog window will be displayed and will require conformation

*All stage data and progress will be lost!!!

## How to edit Settings

1.
PRESS here to enter Settings




2.

GPS related settings

Control Settings

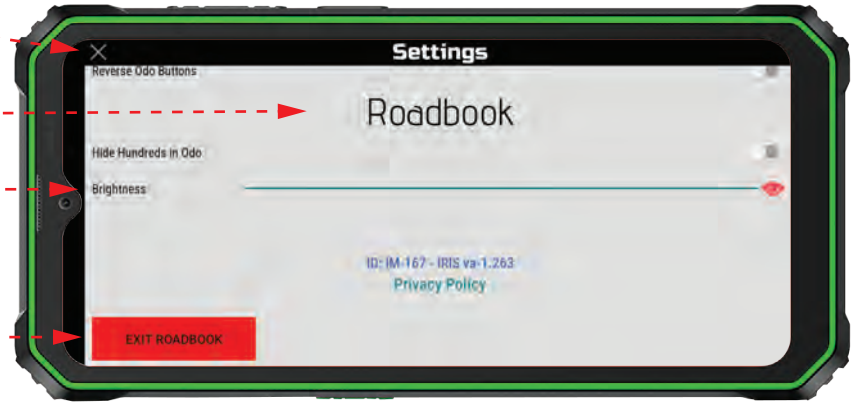



PRESS to close Settings
and return to Road Book

Road Book Settings

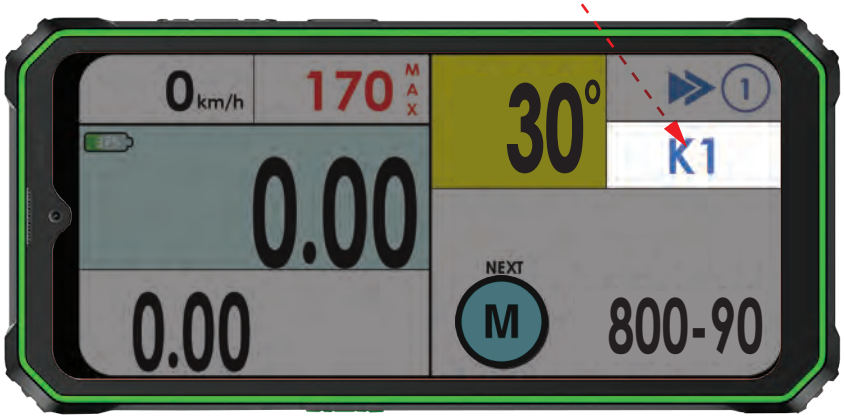
Brightness Adjustment

PRESS to exit Road Book
and return to Road Book List

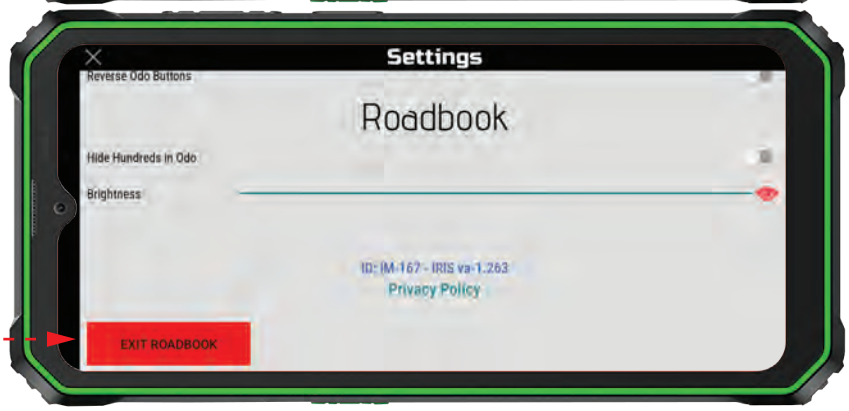


## How to EXIT and CHANGE Road Book

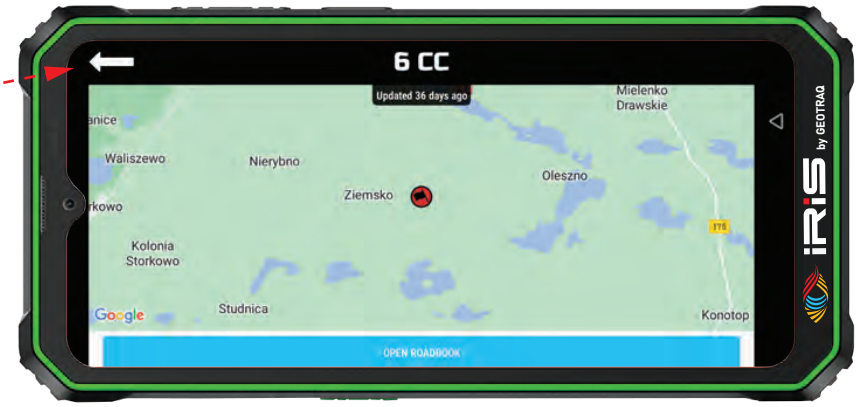
1.
PRESS here to enter Settings



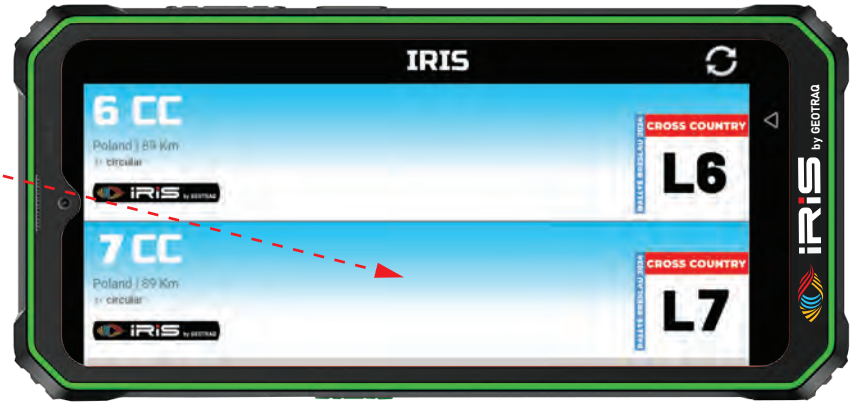

2.
Slide Down and
PRESS to exit Road Book




3.
Back to
SELECT ROAD BOOK



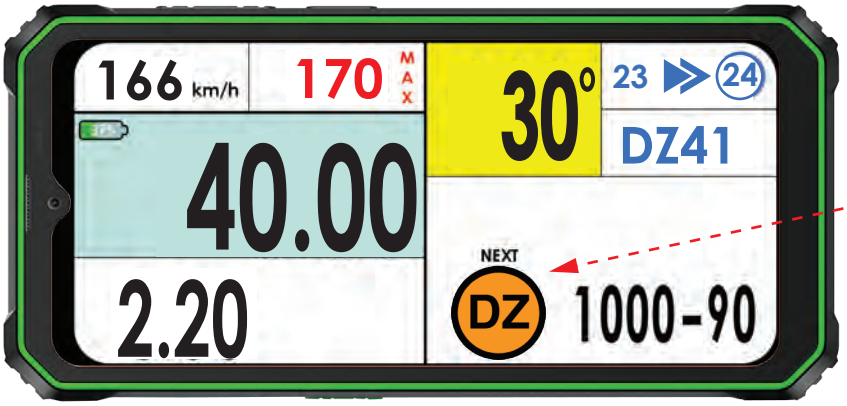

4.
SELECT ROAD BOOK



## Behaviour in Speed Limit

### 1. Heading to Speed Limit

- Start of Speed Limit (DZ) is displayed as NEXT Waypoint in the Navigational part of the screen.




### 2. Entering of Speed Limit - 50 km/h, deacceleration tolerance distance - NO PENALTIES

- The validation of the DZ Waypoint marks the beginning of the Speed Limit Zone. An Orange Frame around the screen will appear and the speed limit, in this case 50 km/h, will be displayed instead of the Global Speed Limit. The orange background with black figures shows that you are in the deacceleration tolerance distance where no penalties for speeding will be applied. See FIA Sporting Regilations. ***Driving speed is <u>below</u> the speed limit - Diagram 1***

Driving Speed **BELOW** Speed Limit

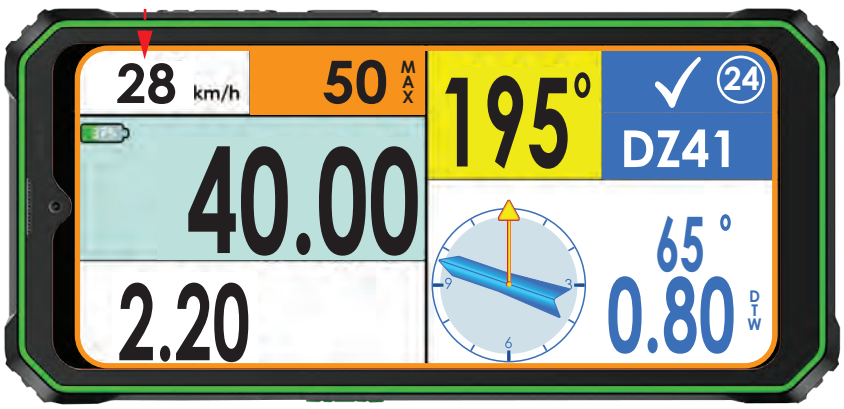



***Diagram 1***

• If the current speed is higher than the speed limit, the Current Speed Indicator is flashing with red background and white figures, combined with warning sound.
***Driving speed is <u>above</u> the speed limit - Diagram 2***

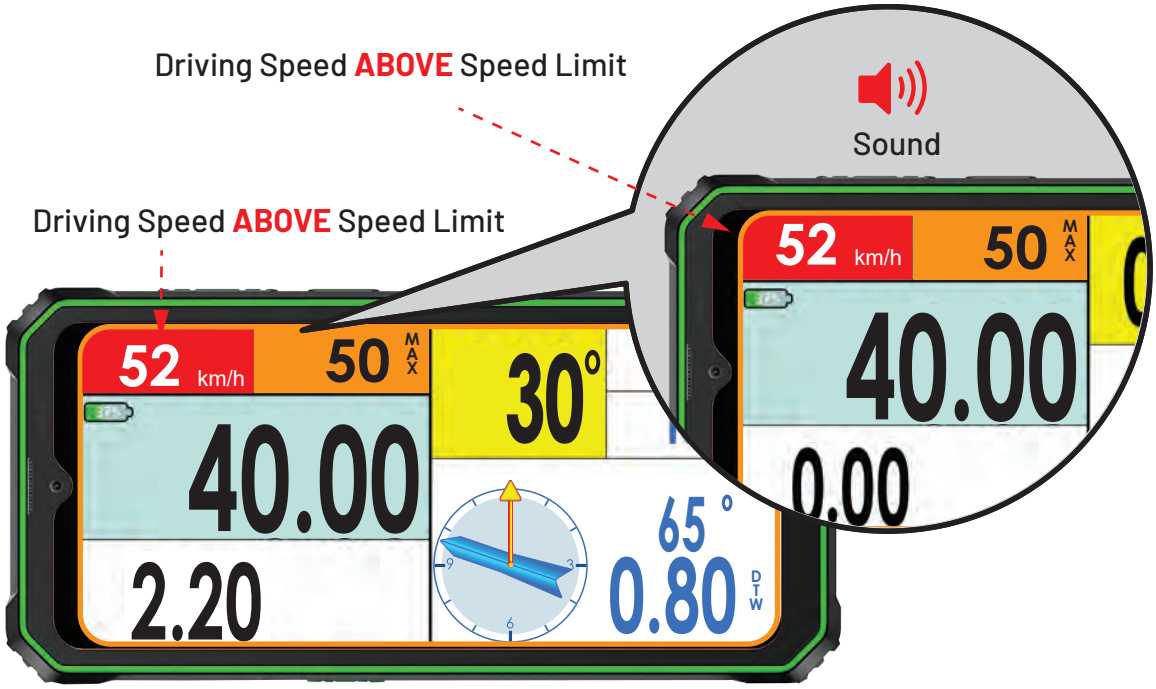



***Diagram 2***

## 3. Inside of Speed Limit - 50 km/h, past deacceleration tolerance distance - PENALTIES APPLY

• Past deacceleration tolerance distance penalties will be applied if the driving speed is higher than the speed limit. The speed limit indicator changes its background from orange to white and the color of the figures from black to red. The orange frame around the screen stays on. Warning sounds become more frequent when driving speed comes closer to speed limit.
***Driving speed is <u>below</u> speed limit - Diagram 3***

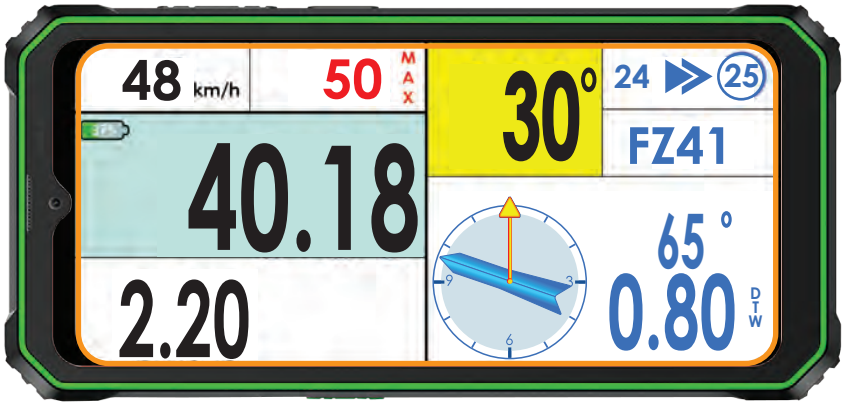



***Diagram 3***

• If the driving speed is higher than the speed limit, the Driving Speed Indicator is flashing with red background and white figures, combined with warning sound.
***Driving speed is above the speed limit - Diagram 4***

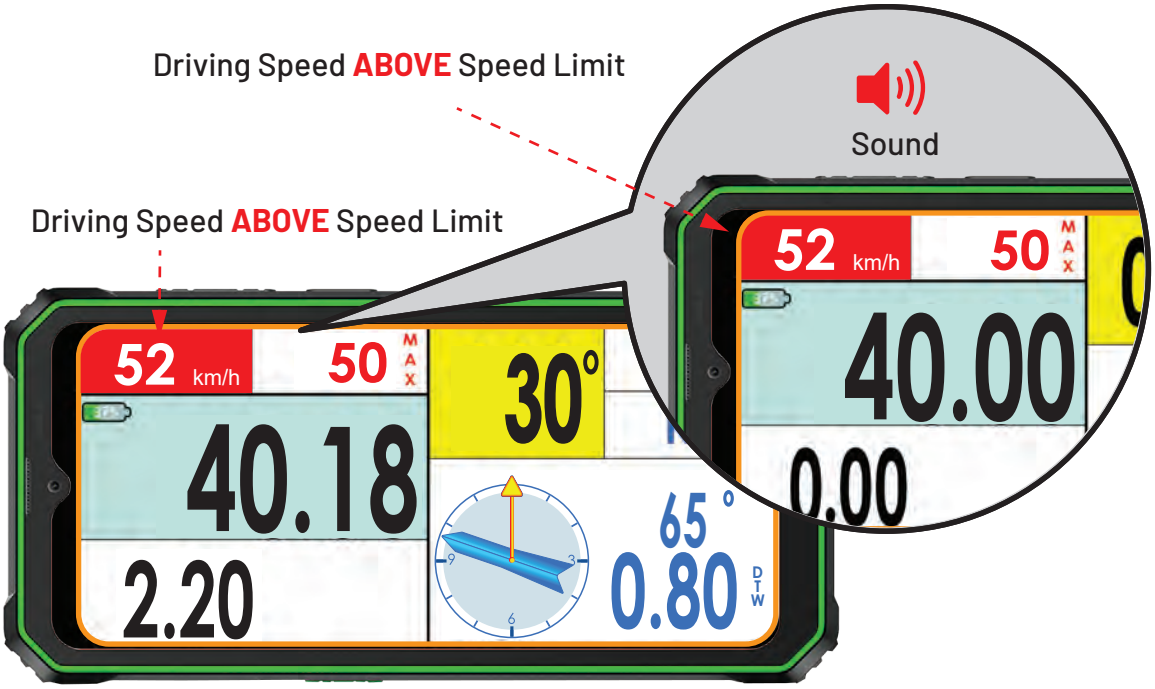



***Diagram 4***

## 4. Finish of Speed Limit

• The validation of the waypoint Finish of Speed Limit (FZ) marks the end of the speed limit zone. The orange frame around the screen is turned off. The Global Speed Limit replaces the speed limit indicator. Acceleration can begin.
***See Diagram 5***

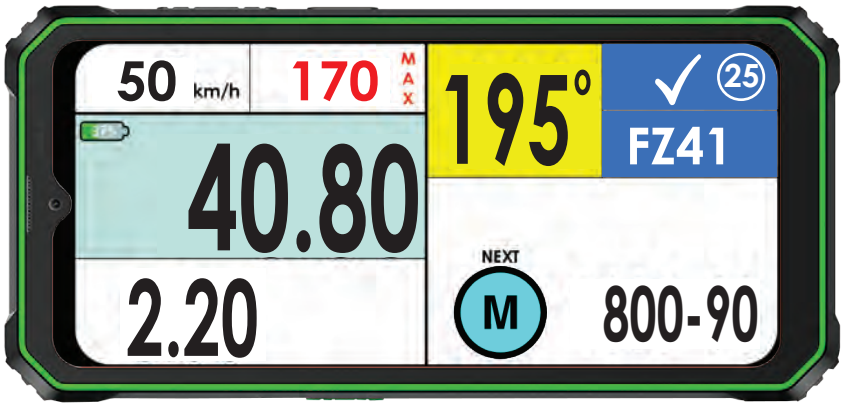
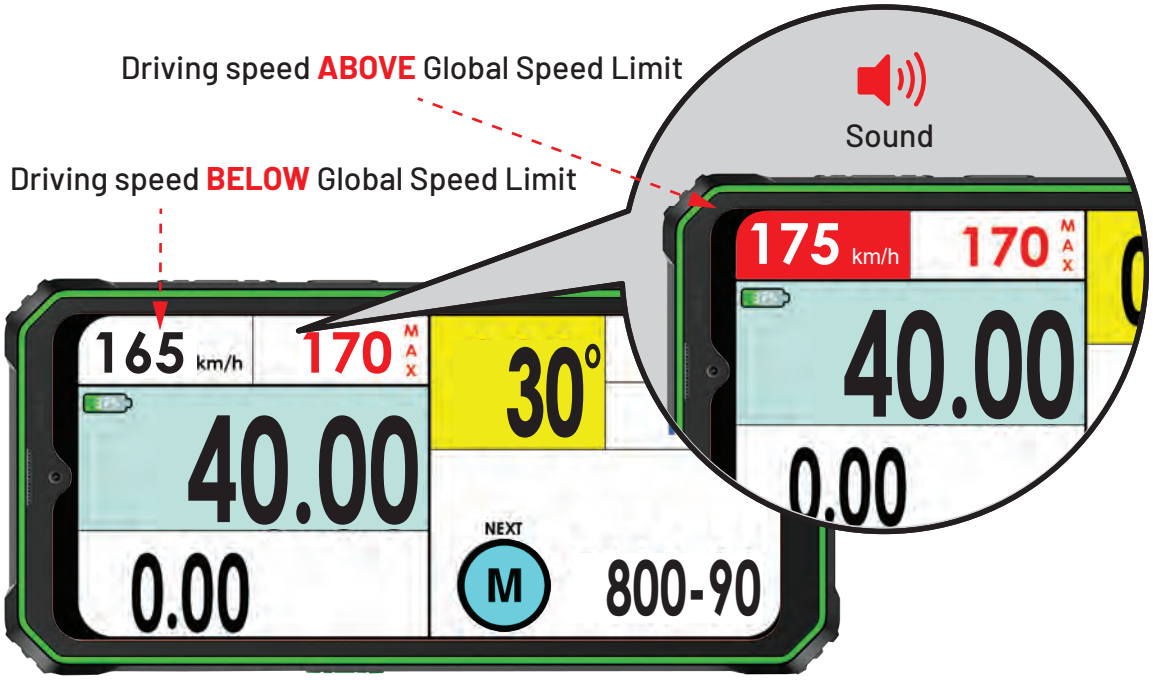



***Diagram 5***

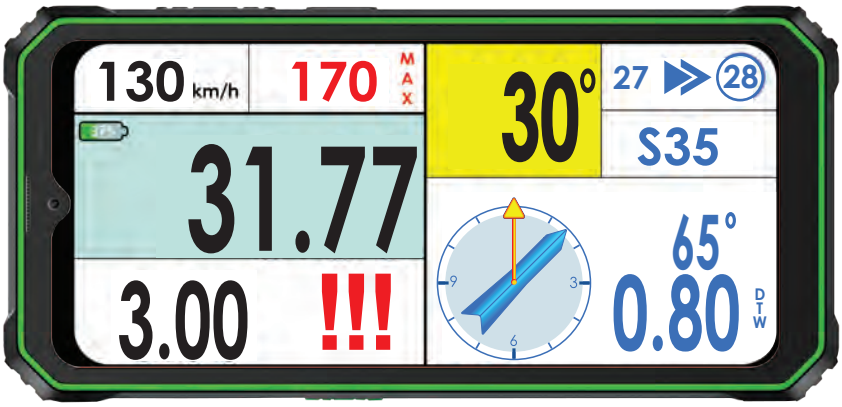
## Warning for Global Speed Limit

• If the driving speed is higher than the Global Speed Limit, the Current Speed Indicator is flashing with red background and white figures, combined with warning sound.




## Warning for Safety Waypoint - Danger Level 3

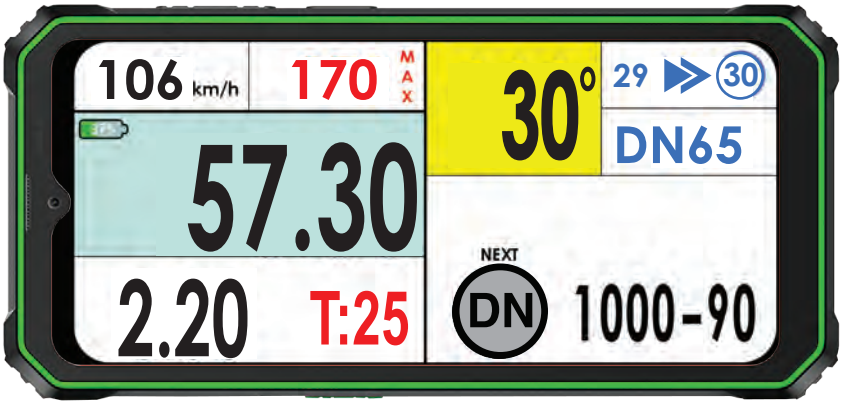
• 300 meters before the validation of the Safety Waypoint the symbol of Danger Level 3 will appear flashing in the Warning / Info Area of the screen together with a repeated warning sound. When the Safety Waypoint is validated the symbol Danger Level 3 disappears and the warning sound stops.



## Behaviour in Neutralisation and Transfer (DN) and (DT)

### 1. Heading to Neutralisation

• 300 meters before the start of Neutralisation the Time for Neutralisation will be displayed in the Warning / Info Area of the screen ( in this case T:25).




### 2. Start of Neutralisation

• When the Waypoint for Start of Neutralisation (DN) is validated, a reverse time counter appears in the Warning / Info Area of the screen and starts counting back the time for Neutralisation.
***See Diagram 6 and 7***

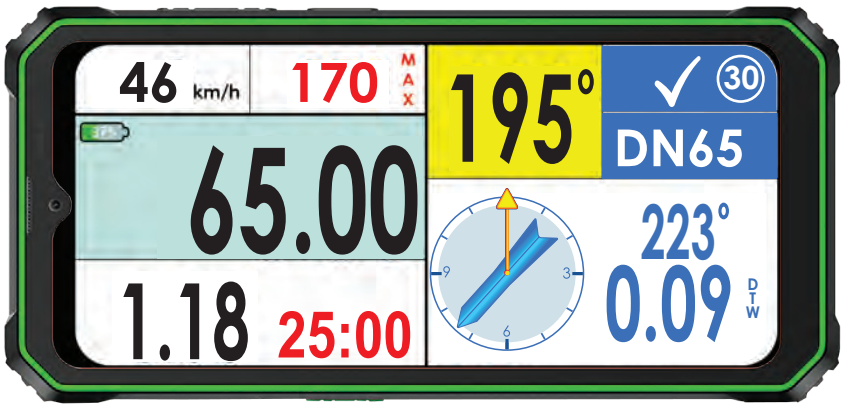



***Diagram 6***

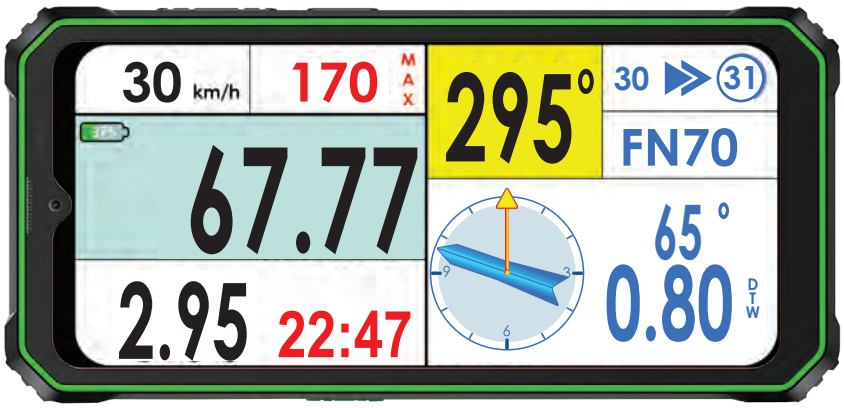
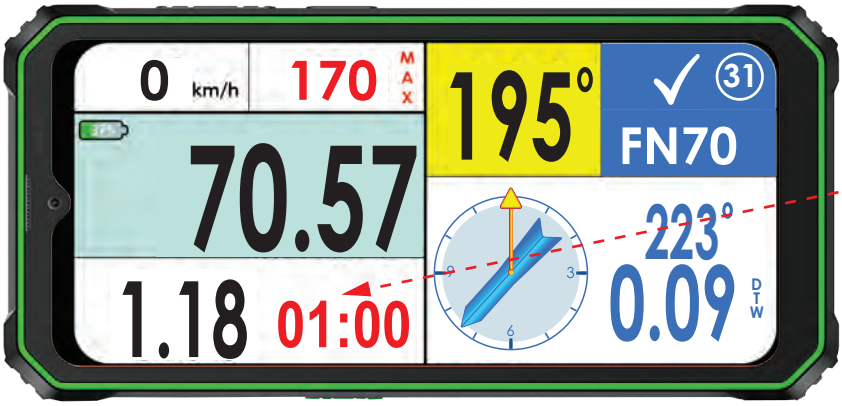


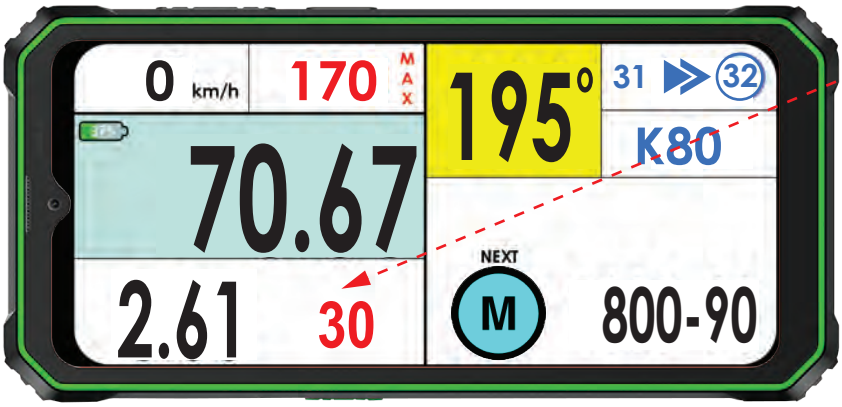

***Diagram 7***

## 3. Finish of Neutralisation

Having arrived at the end of the Neutralisation (FN), the Competing Vehicle must stop and wait in front of the Sign with the Start symbol on yellow background, from where the vehicle may enter the Validation Radius of the FN Waypoint 60 seconds before its individual start time and be driven to the start line. (START Symbol).

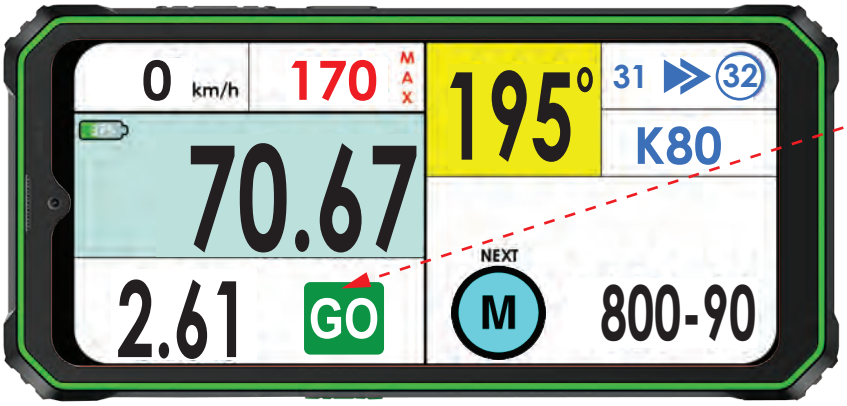



Vehicle must move to the restart line (Sign with Start Symbol in red background)




A sound will play at remaining time for restart:

- 30 sec
- 5 sec
- 4 sec
- 3 sec
- 2 sec
- 1 sec




The countdown is over and the vehicle must start

GO longer beep sound

## Behaviour in Neutralisation and Transfer with Speed Limit DN and DT

• The device manages Neutralisation / Transfer and Speed Limit combining the functionalities described in the two previous paragraphs.

## Troubleshooting

| Problem | Solution |
|---|---|
| Screen doesn`t turn ON | Charge the device. |
| The Blue button OPEN ROAD BOOK is missing becouse GPS signal acquired | Bring the device outside and ensure unobstracted view to the sky. Once GPS signal is acquired the Blue button will appear |
| On the blue button instead of OPEN ROAD BOOK a reverse timer is displayed | The road book will open after a preset time, defined by the organizer. Once the reverse timer has finished, OPEN ROAD BOOK will be displayed. |
| The touch screen is not working | Unlock the screen with LONG PRESS over area of Driving Speed, on top left corner of the Screen |
| Increasing Brightness | The Brightness can be increased from Settings menu. See Page 10 |

## Tips before Start

1. Ensure the rubber cap of the USB Type C ( on tne Bottom of the Device) is firmly closed before starting the vehicle.
2. Ensure the device has sufficient battery level before you start the day (minimum 60% for the day).
3. **Never charge the device while driving!**