



RALLY SAFETY SYSTEM INSTALLATION MANUAL



SYSTEM COMPONENTS

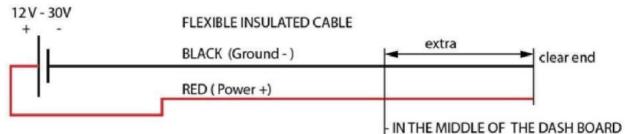
- <u>GPS Tracker</u> 73x73x27mm (WxHxD). Installed at the A-pillar roll-cage using cable ties or at the dashboard using double sided tape.
- <u>Com-box</u> 73x73x27mm (WxHxD). Installed via slip and clip in the supplied metal Base / Mount bracket.
- <u>Base / Mount bracket</u> 75x74x26mm (WxHxD).
 Installed on the dashboard by means of screws, cable ties or double sided tape.



The Base / Mount bracket is supplied by the Geotraq team at the administrative check and remains property of the competitor after the event.

POWER SUPPLY

VEHICLE's BATTERY



1.....

- The power cord must be connected directly to the battery. The Master cut-off (kill) switch must not interrupt the power supply to the system.
- The cabled used must be "flexible" (multi wire), insulated cable 2x1 mm2 or 2x1.5 mm2 – Red and Black coloured (if possible).
- A 3A fuse (responsibility of the competitor) should be connected to the positive wire.

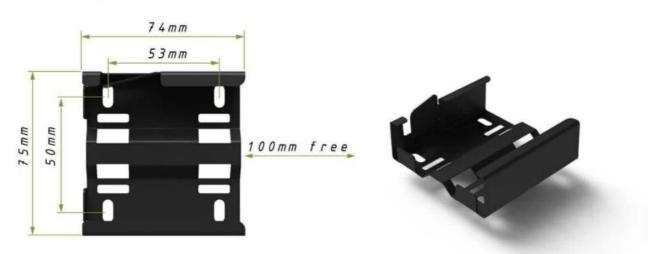
- The end of the power cord must be located as per the instructions at the top of the dash board or under it with easy access.
- The power cord must be prepared in advance and connected to the vehicle's battery when the vehicle is presented for scrutineering.
- Electrical details: voltage 6-30V DC, Nominal voltage 12V, Energy consumption (at 12.6V) 110 mA r.m.s.

Leave the power cord in place with at least 10 cm to spare for easy handling.

BASE / MOUNT BRACKET

- The Base / Mount bracket can be attached to the dashboard or to the roll-cage.
- The fitting can be done via screws, cable ties and double sided 3M tape. It is the responsibility of the competitor to prepare and mount the Base / Mount bracket before the vehicle is presented for scrutineering.





At least 10 cm of space must be left on the sliding side of the Base / Mount bracket to allow the installation of the Com-box.

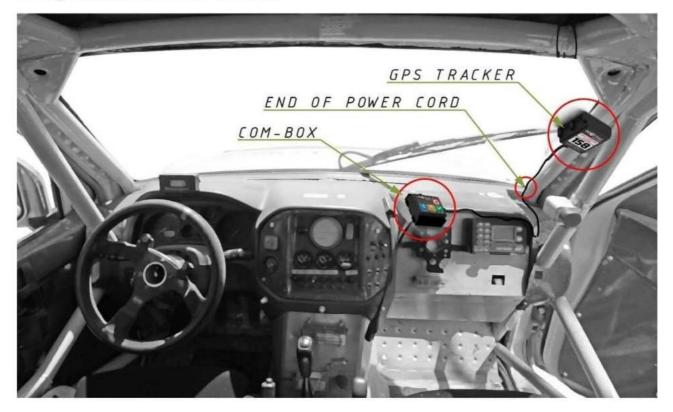
POWER CONNECTORS

 The power cord must be equipped with FULLY INSULATED FEMALE Crimp Spade Terminal Connector – 6.3 x 0.8 mm. The Geotraq team will install the required terminals to the ready power cords.



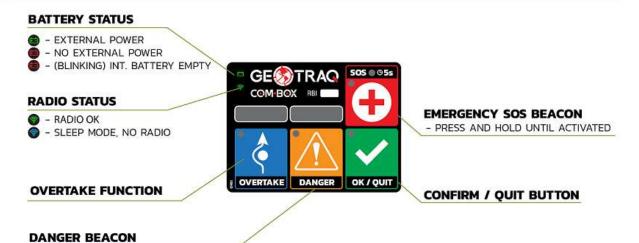
INSTALLATION LOCATION

The Com-Box must be visible and accessible to the drivers even when they are sitting with the seatbelts buckled.





OVERVIEW



GESTRAQ **OVERTAKE FUNCTION** COM BOX CONSIGNATION OF VEHICLE A VEHICLE B SIGNAL Vehicle A wants to overtake: TRAG press for 2 seconds the BLUE BUTTON to send a signal to the vehicle ahead (less than 200m). Signal is received when lights are SOLID YELLOW. OK/O Signal is not received if light BLINK YELLOW. Cancel/repeat the function with OK/QUIT button.



OVERTAKE FUNCTION





CONFIRM OVERTAKING WITH BLUE BUTTON ! (will allow overtaking at the first safe place)

DECLINE OVERTAKING WITH OK/QUIT BUTTON



GE COM BOX

DANGER BEACON







GESTRAQ

COM BOX

If you breakdown in a danger place (after bling turn) or if drive against the route, activate "DANGER BEACON FUNCTION".

You will be sending signal to the competitors maximum 200 meters around you to inform them. DEACTIVATE WITH "OK/QUIT" BUTTON







RALLY CONTROL can send you an "REQUEST" to ask for your status.

REPLY WITH THE 3 AVAILABLE OPTIONS:

- SOS - activates SOS FUNCTION

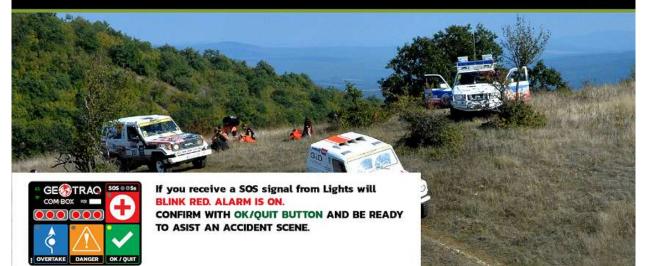
- DANGER - activates DANGE FUNCTION - OK / QUIT

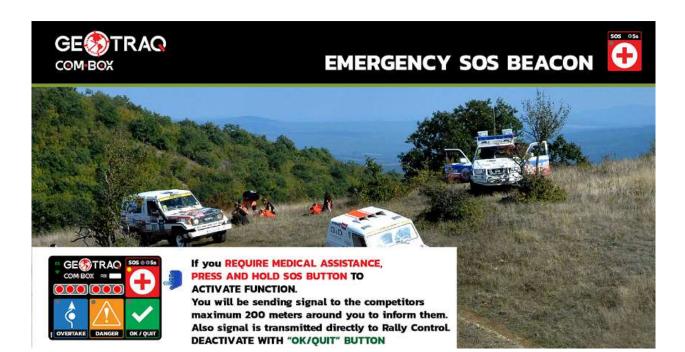
Doing this RALLY CONTROL will know your current status and will act accordingly.



EMERGENCY SOS BEACON

505 055







DANGER BEACON







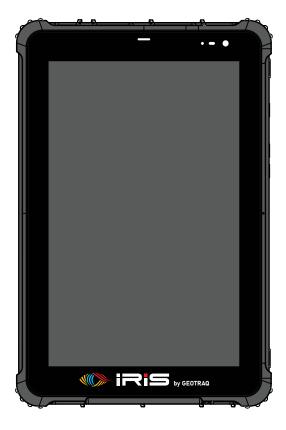
DIGITAL ROADBOOK AND NAV-GPS

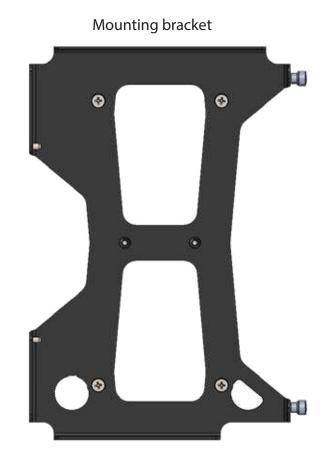
MOUNTING INSTRUCTIONS



IRIS - COMPONENTS

IRIS device





Bluetooth Remote control

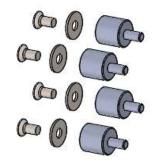


Power cable

Cable clamp

Rubber mounts

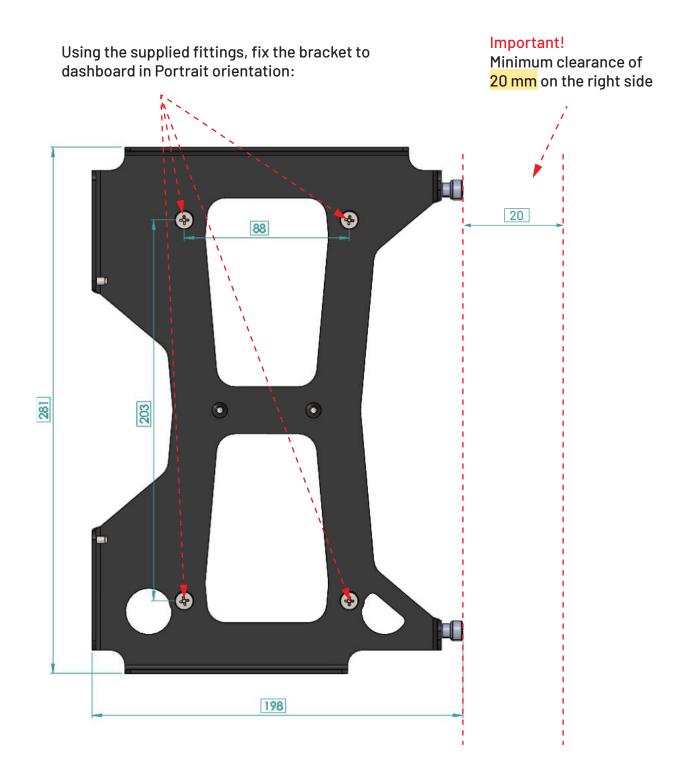






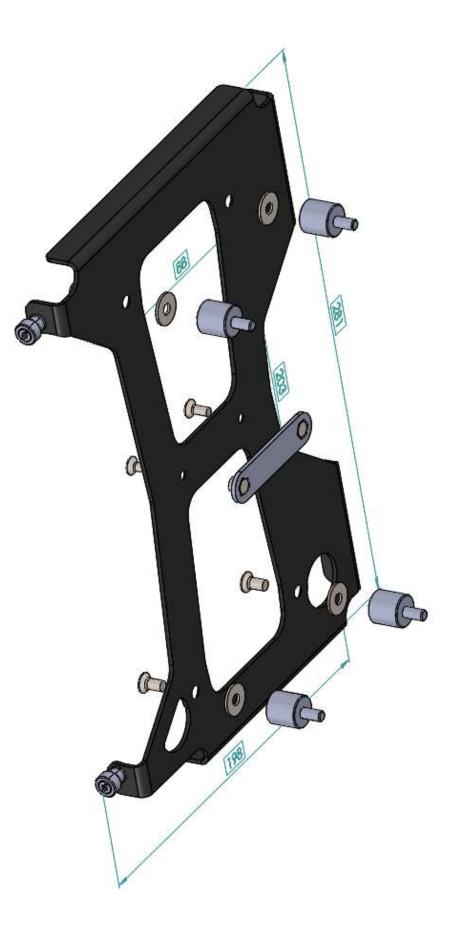
FITTING TO DASHBOARD

Dimensions of the holes: Vertical spaces between axes: <mark>203 mm</mark> Horizontal spaces between axes: <mark>88 mm</mark>





FITTING TO DASHBOARD





FITTING TO DASHBOARD







DIGITAL ROAD BOOK AND NAV-GPS OPERATING INSTRUCTIONS

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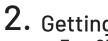
Version Release August 2024





1. About the Device

-	Front Side, Mounting hardware	Page 3
-	Physical Buttons	Page 4



2. Getting Started

-	Turn ON and Open Road Book	Page 5

- Odometer and Naviagation Overview _____ Page 7 - NAV-GPS Overview Page 7

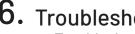
3. Overview of the Screen

4. How it works

-	Visual Buttons	Page 8
	Edit Ododmeter	
-	Stage Overview	Page 10
-	Settings Menu	Page 11
	How to Exit Road Book and Change it	-

5. Functionality

-	Behaviour in Speed Limit	Page 13
	Warning for Global Speed Limit	
-	Warning for Safety Waypoint - Danger Level 3	Page 16
-	Behaviour in Neutralisation and Transfer	Page 17
-	Behaviour in Neutralisation and Transfer with speed limit	Page 18



6. Troubleshooting table

-	Troubleshooting table		Page	19
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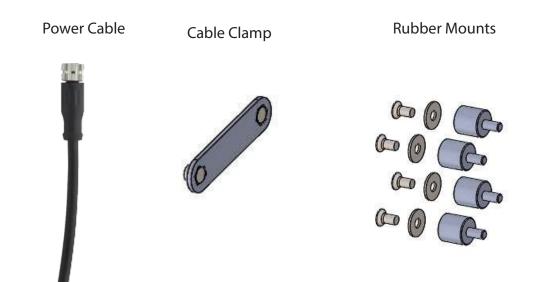
IRIS - ABOUT THE DEVICE





IRIS Device

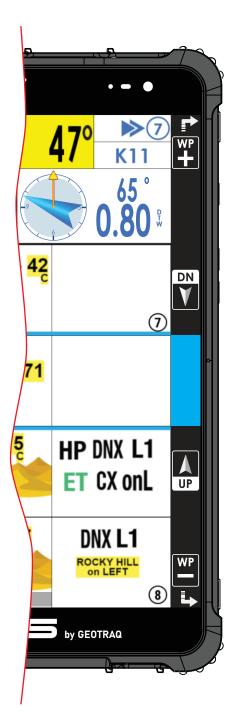


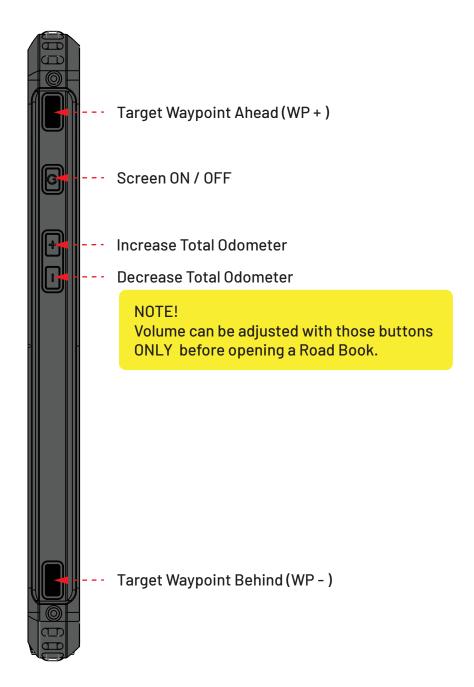




Physical buttons

• Positioned on the right side of the device





2 IRIS - GETTING STARTED



Step 1

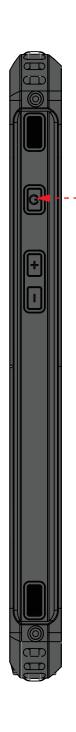
• PRESS Screen ON / OFF button to wake up the screen.

Screen ON / OFF

Step 2

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





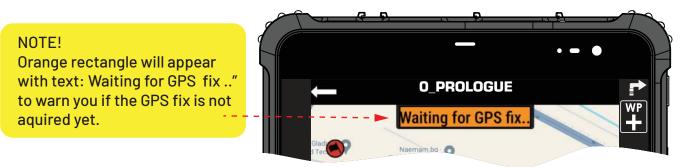


2 IRIS - GETTING STARTED

Step 3

• Open selected roadboook by pressing the Blue Button.





3 IRIS - OVERVIEW







Virtual Buttons

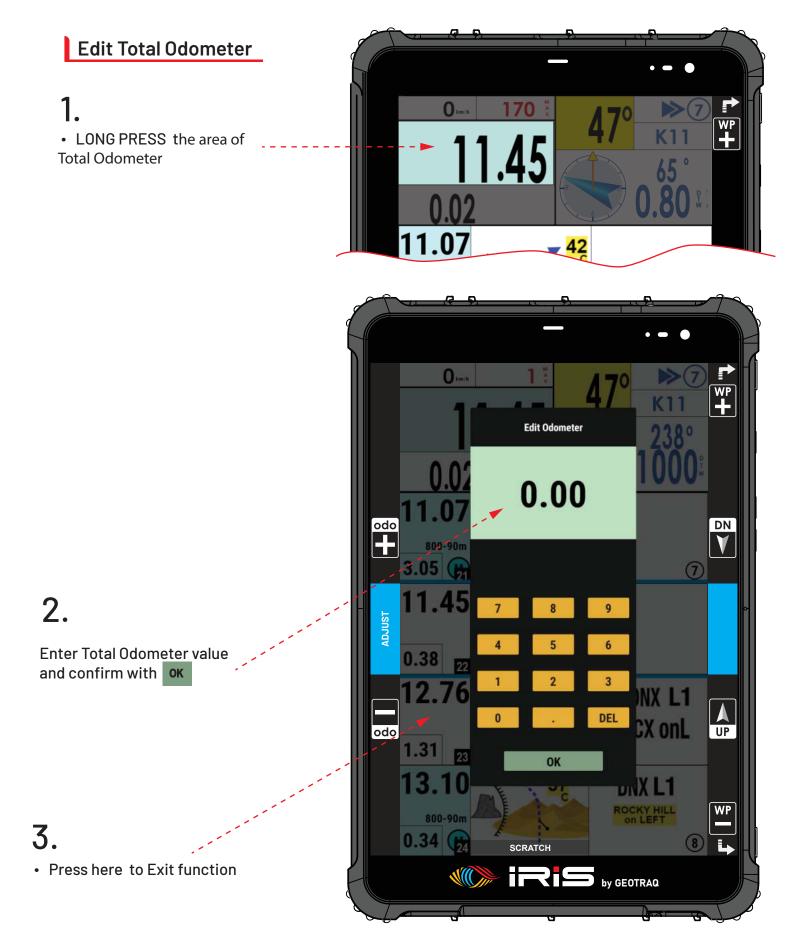
• Rectangles in red color show active area of the Virtual Buttons

LONG PRESS to LOCK and UNLOCK the touch screen

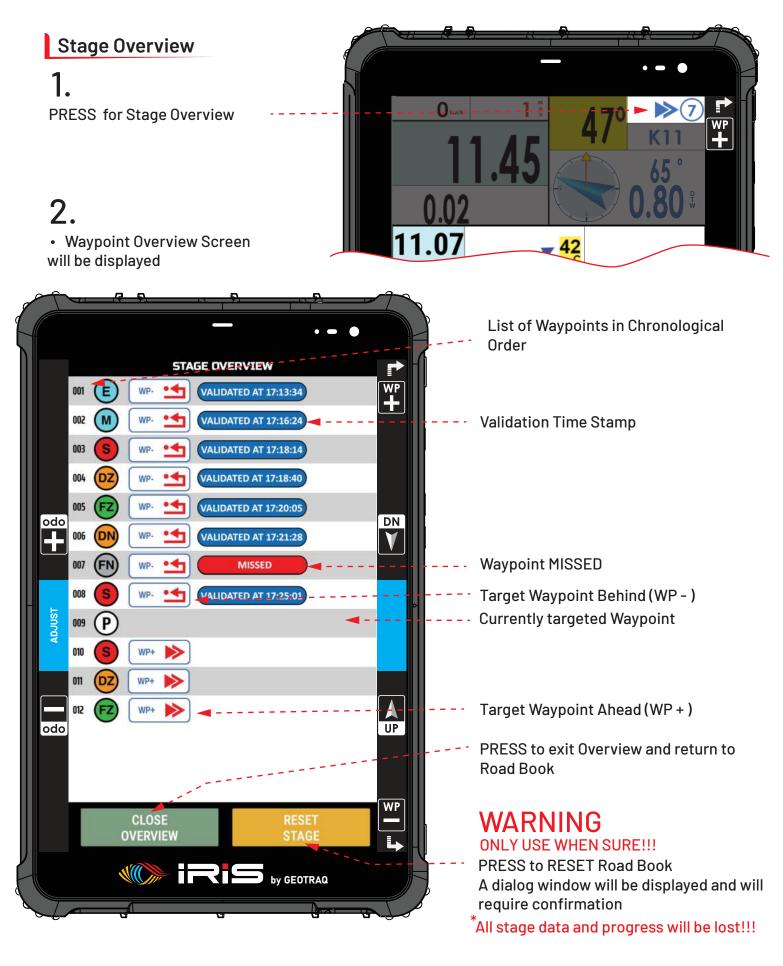


- Scroll Road Book to Next Tulip

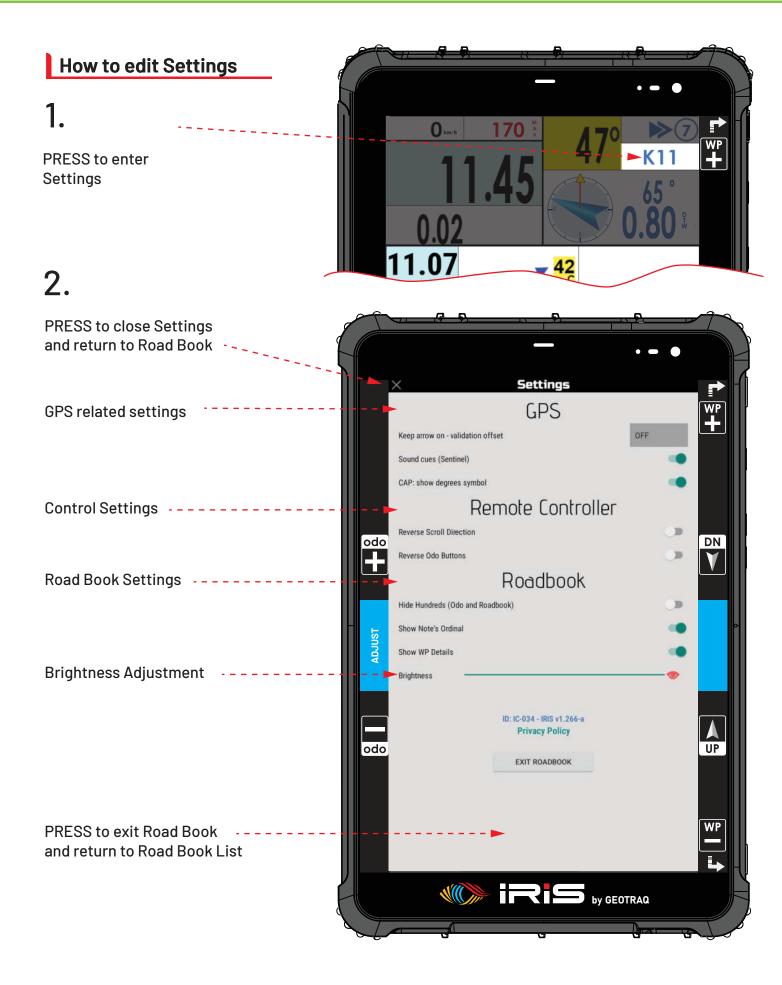








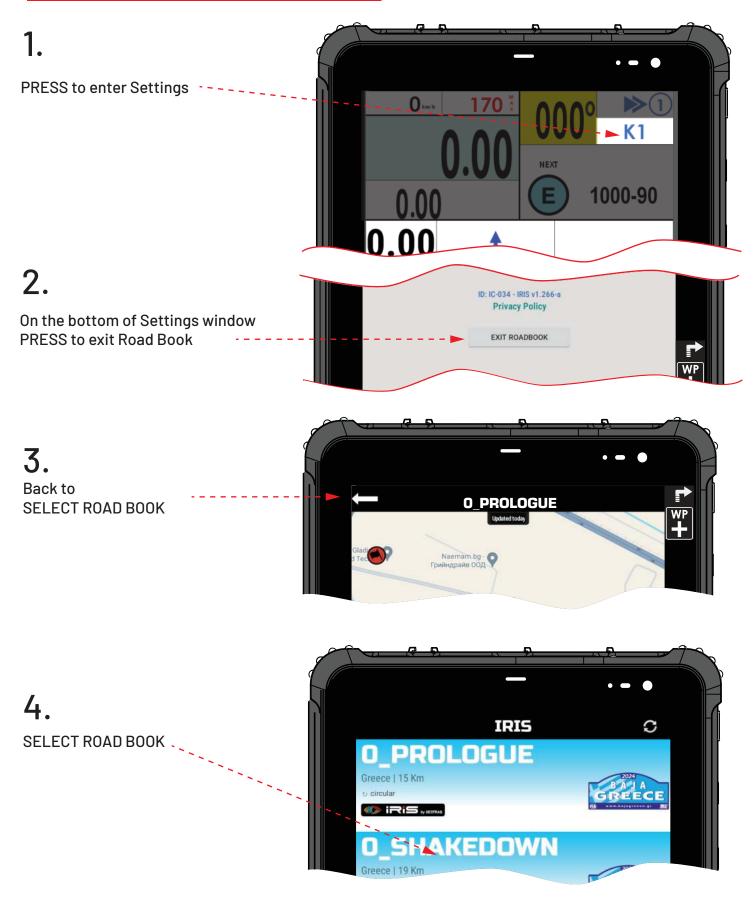








How to EXIT and CHANGE Road Book



5 IRIS - FUNCTIONALITY



Behaviour in Speed Limit

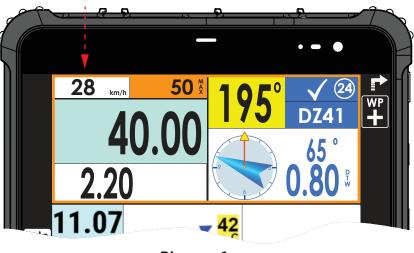
1. Heading to Speed Limit

• 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



• 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**

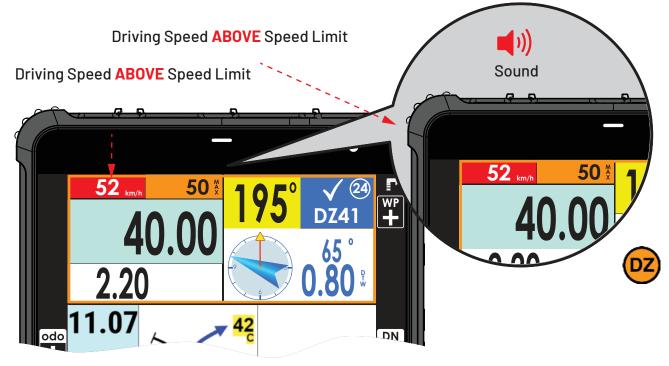
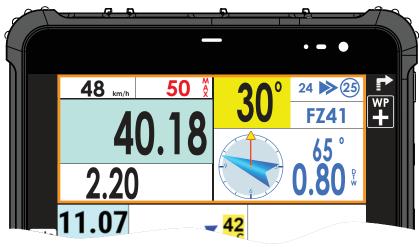


Diagram 2

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 below speed limit - 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 <u>above</u> the speed limit - Diagram 4**

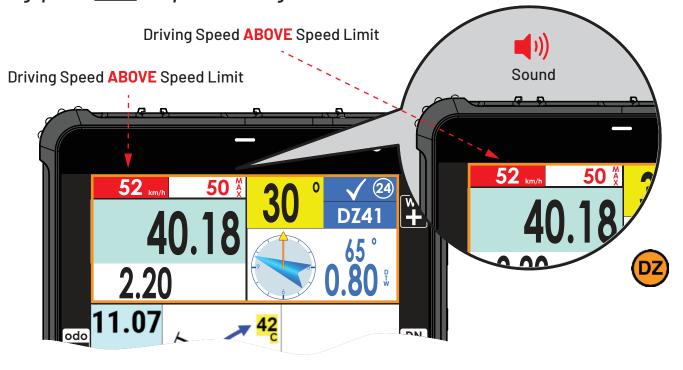
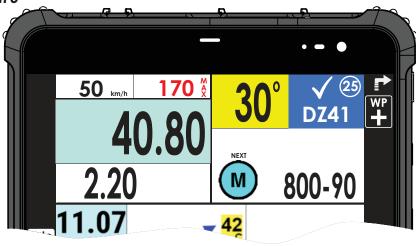


Diagram 4

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



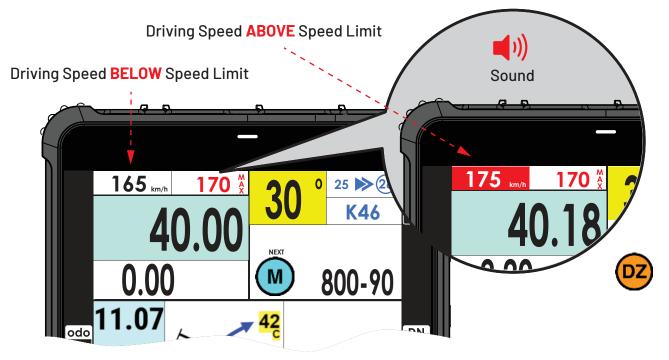


IRIS - FUNCTIONALITY



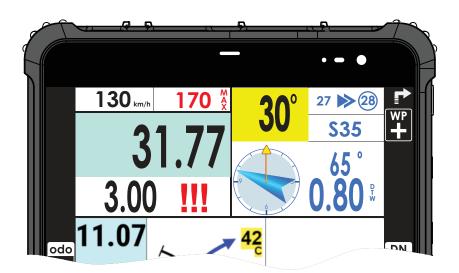
Warning for Global Speed Limit

• 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 💿 and 可

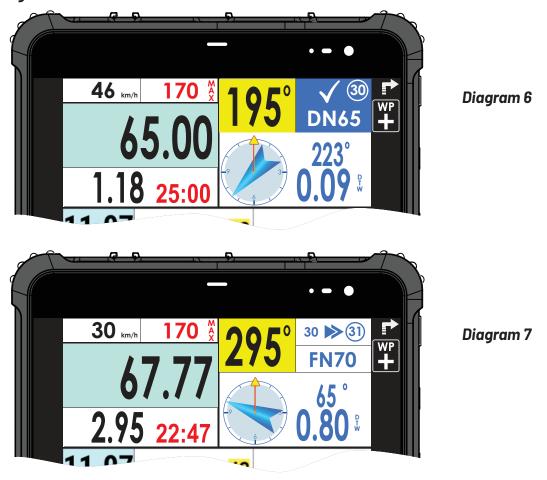
1. Heading to Neutralisation

• 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

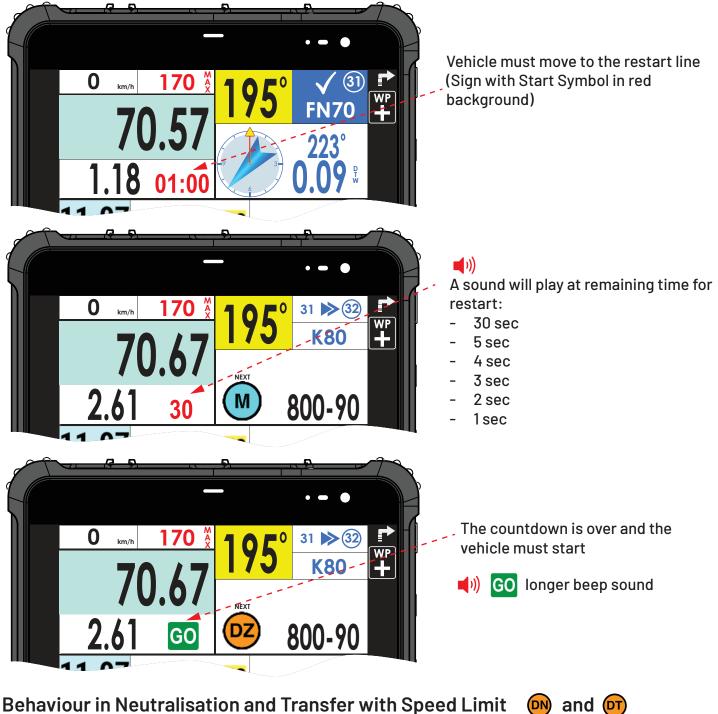
• When the Waypoint for Start of Neutralisation (DN) is validated, a reverse time counter appears in the Warning / Info Area of the screen and starts counting back the time for Neutralisation. **See Diagram 6 and 7**





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).



• 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 that the charging cable is directly connected to the car battery.
- 2. The cable must stay allways connected and supplying the Device with constant 12V even when the vehicle is switched OFF.
- 3. LED light should illuminate on the top right corner if everything is properly connected.
- 4. If the device battery is LOW the LED light will illuminate RED and it will blink.



IRIS-MINI NAV-GPS

OPERATING INSTRUCTIONS



Version Release July 2024

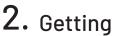
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1. About the Device

-	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

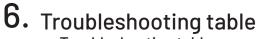
-	Odometer and Naviagation Overview	Page 7
-	NAV-GPS Overview	Page 7

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



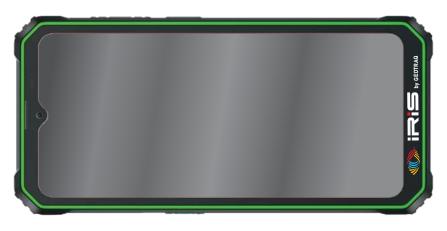
Troubleshooting table Page	е	1	8
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Front side

• Dimensions: 175mm x 82mm x 23mm

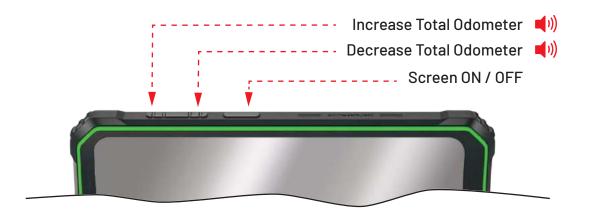


Back side

• IRIS device with Quick Lock Mounting System



Physical buttons



(i)) - Audio sound when pressed

IRIS MINI - ABOUT THE DEVICE



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



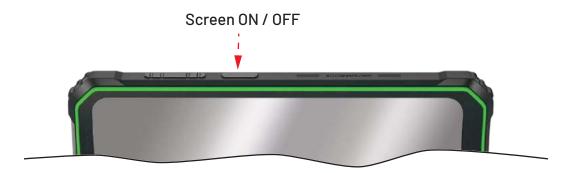
• Mounting base with L- shape bracket and hose clamp

2 IRIS MINI - GETTING STARTED



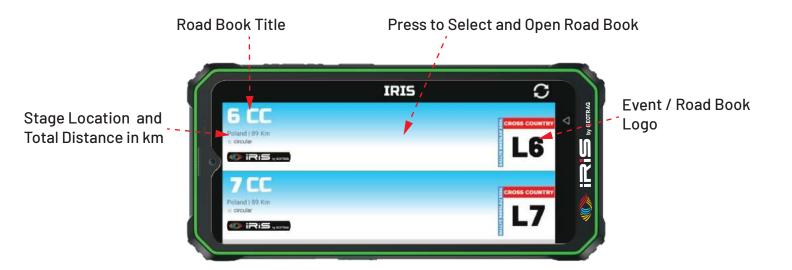
Step 1

• 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

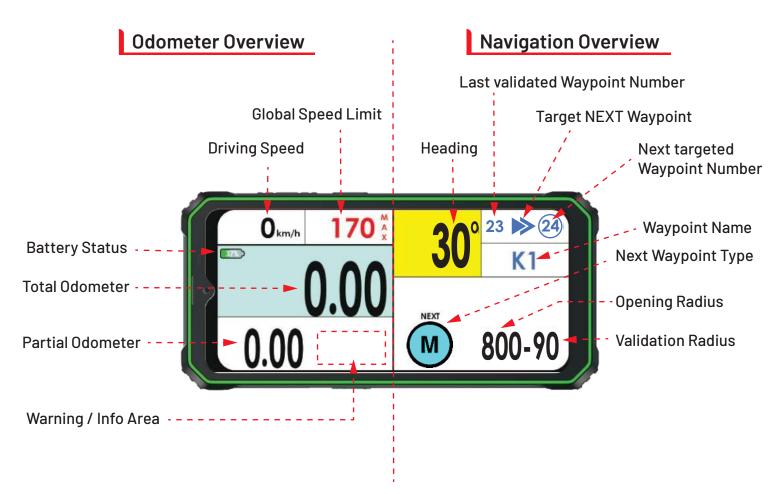
• Open selected roadboook by pressing the Blue Button on the bottom of the screen.



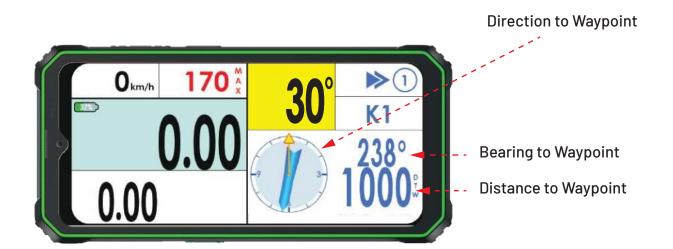
* The road book will open after a preset time, defined by the organizer. A reverse timer will count the time till opening.

3 IRIS MINI - OVERVIEW





NAV-GPS - When in opening radius

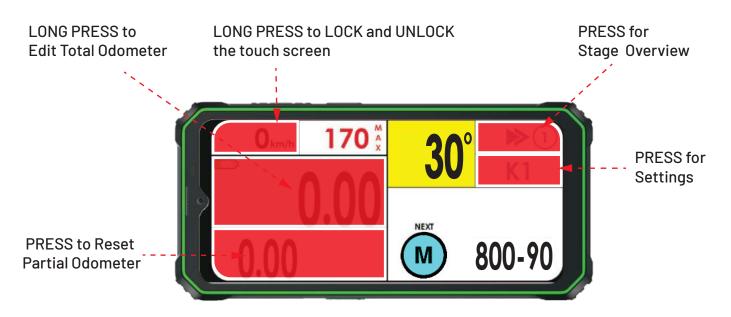


IRIS MINI - HOW IT WORKS

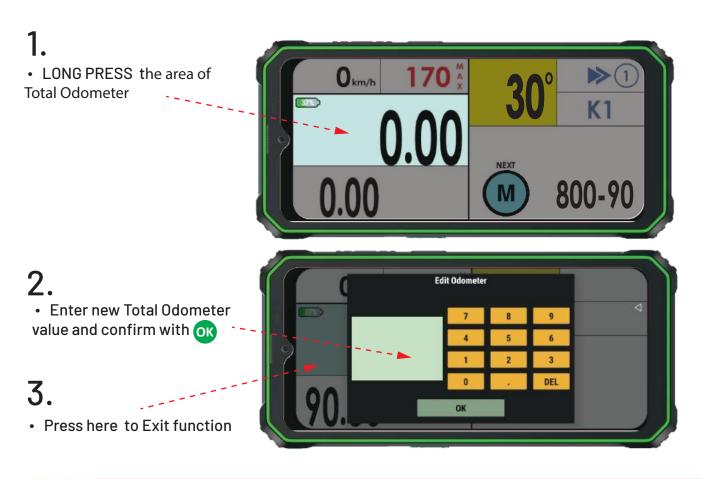


Virtual Buttons

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



Edit Total Odometer

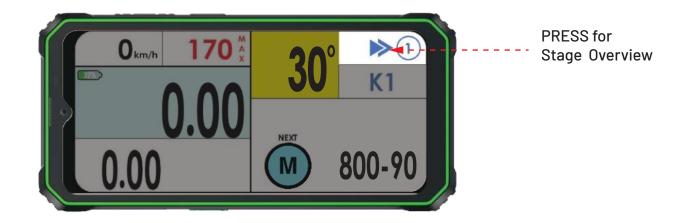




Stage Overview

1.

• PRESS to see Stage Overview with all Waypoints



2.

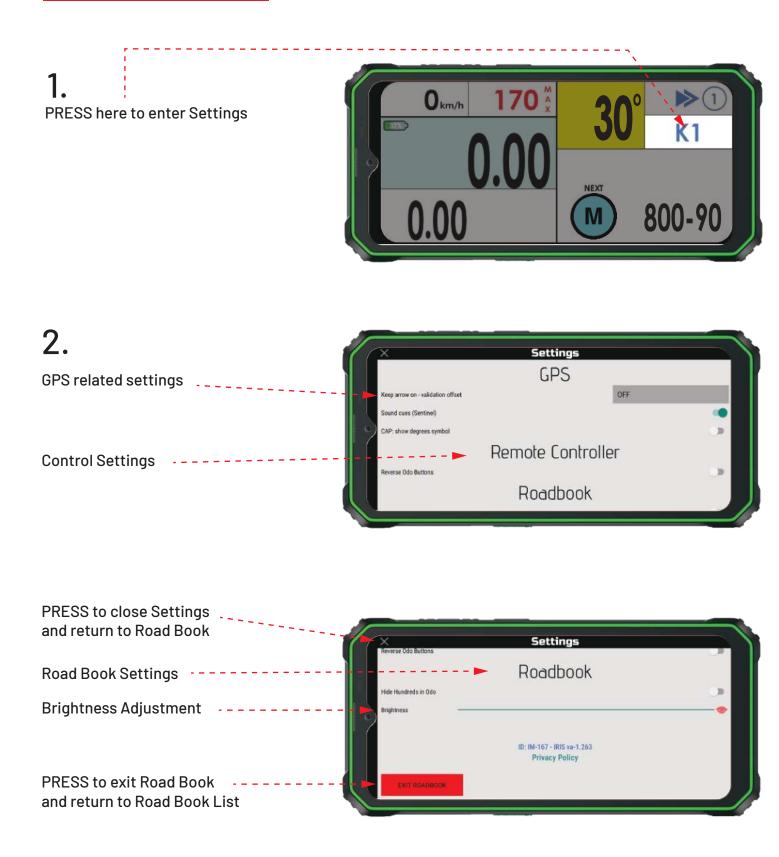
• Waypoint Overview Screen will be displayed







How to edit Settings







How to EXIT and CHANGE 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**

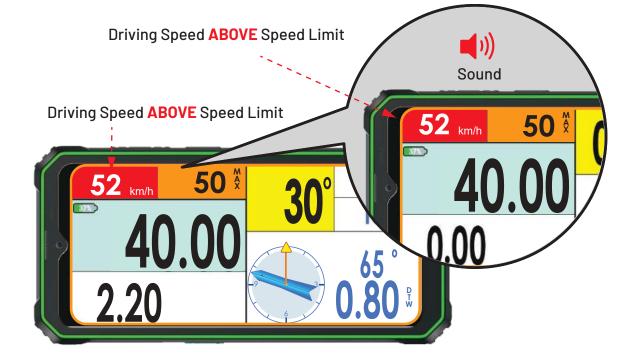


Diagram 2

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 below speed limit - Diagram 3**

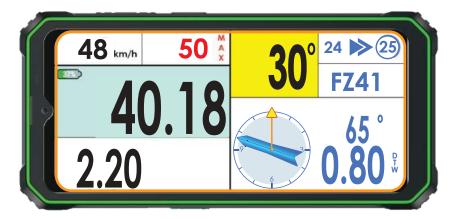


Diagram 3



• 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 <u>above</u> the speed limit - Diagram 4**

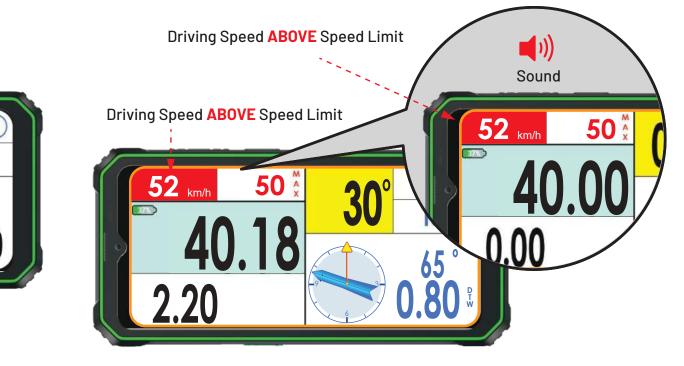


Diagram 4

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

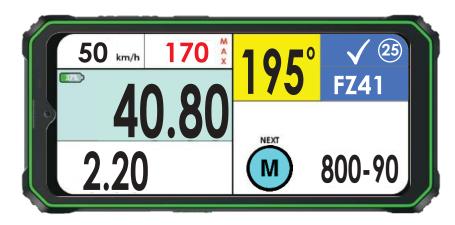


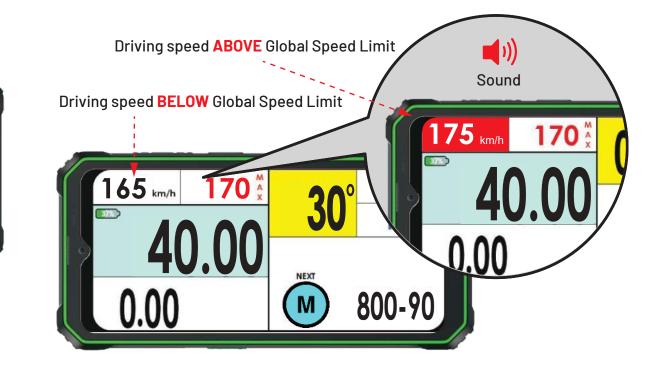
Diagram 5

IRIS MINI - FUNCTIONALITY



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.



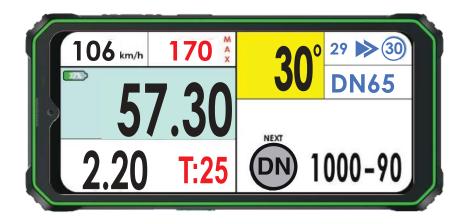
RIS MINI - FUNCTIONALITY



Behaviour in Neutralisation and Transfer 💿 and 可

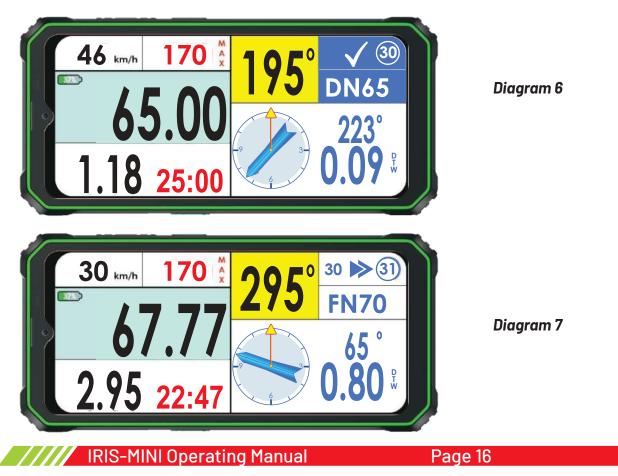
1. Heading to Neutralisation

• 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**

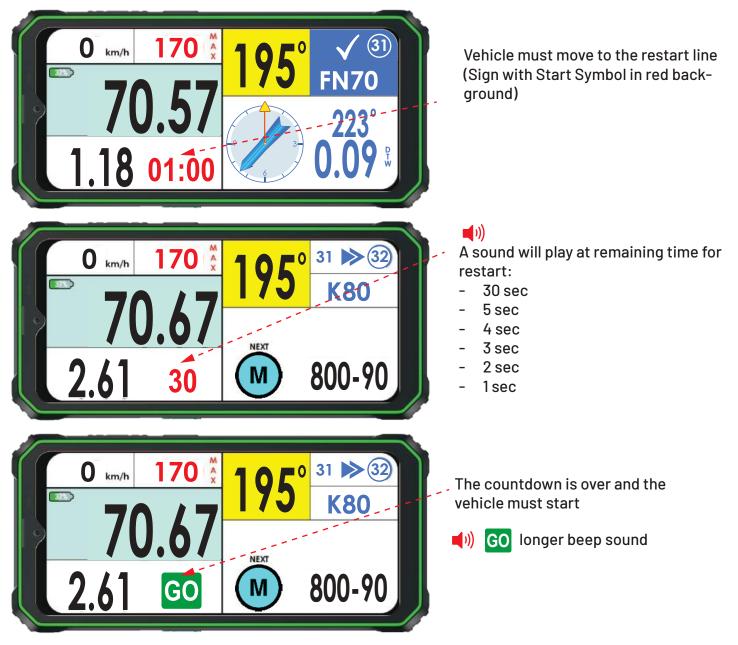


IRIS MINI - FUNCTIONALITY



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).



Behaviour in Neutralisation and Transfer with Speed Limit 🛛 💿 and 可

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

IRIS-MINI Operating Manual



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 the 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!