



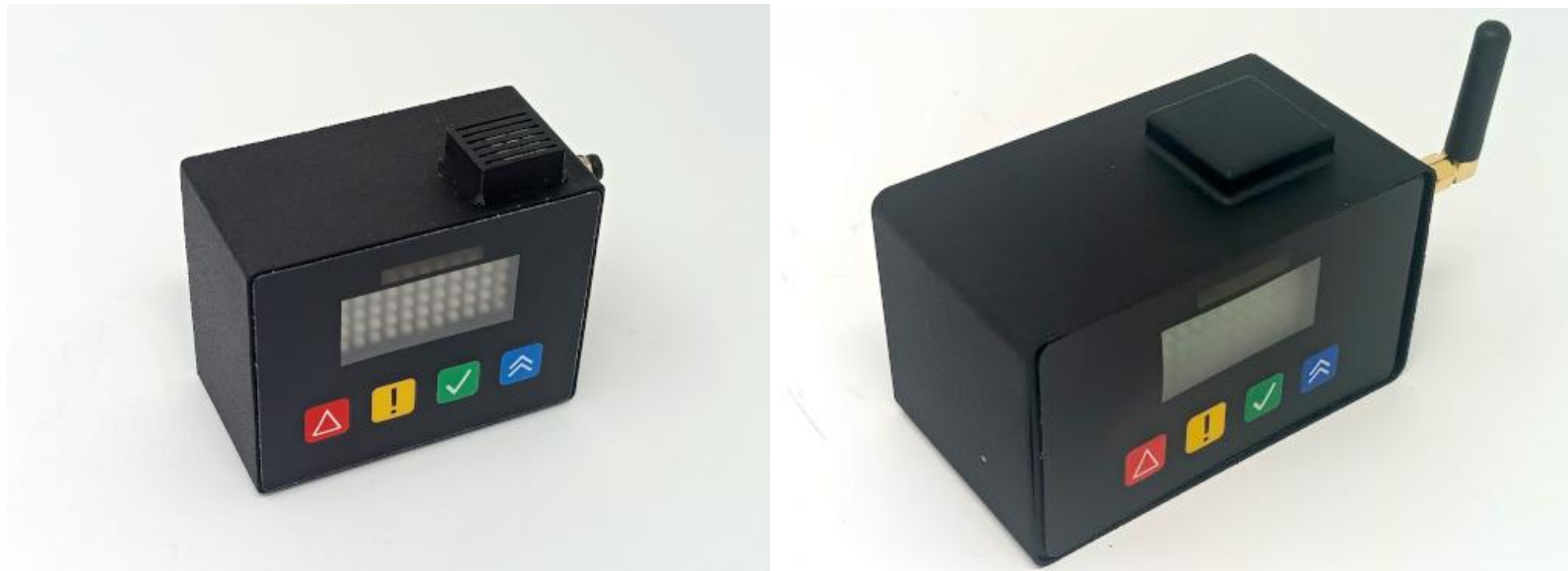
## AL KAMEL SYSTEMS - MANUAL DE USUARIO PPTRACKER

Timekeeping Services | Race Control Solutions | TV Graphics | Rally Tracking  
Security Services | Road Book Services | Radio Systems | Turnkey Projects

PTracker and PTracker Lite provided by Al Kamel Systems are the official GPS tracking and signaling systems for the SuperCampeonato de España de Rallyes. These devices have been designed for all types of rally competitions and will be used for Reconnaissances, Special Stages and Shakedown of the events of the S-CER. The purpose of these systems is to improve the safety and visibility of participants.



PPTracker Lite System provided by Al Kamel Systems is the official GPS tracking and signaling system for reconnaissance of the SuperCampeonato de España de Rallyes. The device must be installed and used as indicated in this manual, taking into account that it must be mounted on the vehicle for the reconnaissance throughout its entirety and must be returned as soon as it has been finished.

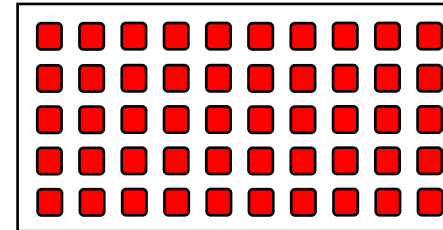


- Place the device with the screen facing the user and the upper part facing the windscreen of the vehicle, directly focused on the sky and without obstructions.
- Make sure that the surface is clean so that, once the protective plastic is removed from the adhesive tape, it can be fixed.



The device will work completely autonomously without the need to press any button. It will indicate the following:

- Sound alarms:
  - Discontinuous beeps when speeding
  - 2 beeps at stage entry and exit
- Flash alarms:
  - Yellow: 3kph under the limit
  - Red: Overspeeding



The PPTracker System provided by Al Kamel Systems is the official GPS tracking and signaling system for the shakedown and special stages of the SuperCampeonato de España de Rallyes. The device must be installed and used as indicated in this manual, taking into account that it must be mounted on the competition vehicle prior to technical scrutineering.



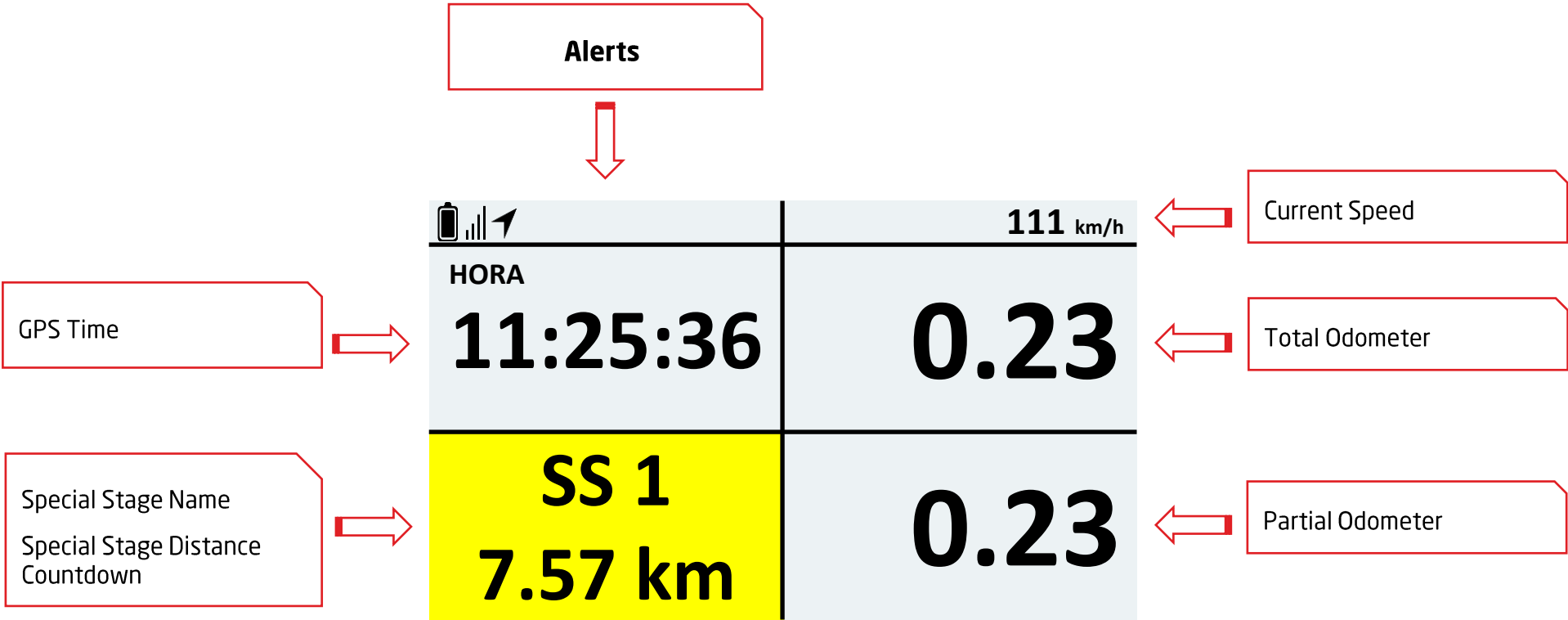


Image 1. MAIN SCREEN

# ODOMETERS

**!** / **!** + 3s

The device has the possibility of resetting both the partial and total odometer values to 0 by pressing the YELLOW button and keeping it pressed for 3 SECONDS respectively:

|                                                                                   |          |                                                                                   |
|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|
|  | 111 km/h |  |
| HORA<br>11:25:36                                                                  | 0.23     |  |
| SS 1<br>7.57 km                                                                   | 0.00     |  |
|                                                                                   |          |  |

YELLOW BUTTON

Image 2. Reset Partial Odometer

|                                                                                     |          |                                                                                     |
|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|
|  | 111 km/h |  |
| HORA<br>11:25:36                                                                    | 0.00     |  |
| SS 1<br>7.57 km                                                                     | 0.00     |  |
|                                                                                     |          |  |

YELLOW BUTTON  
(3 SECONDS)

Image 3. Reset Total Odometer

# BREAKDOWN



+ 3s

To indicate that the car has stopped due to a breakdown, the **RED** button must be held down for **3 SECONDS**. After that, the display will turn orange asking for confirmation as to whether the track is blocked or not.

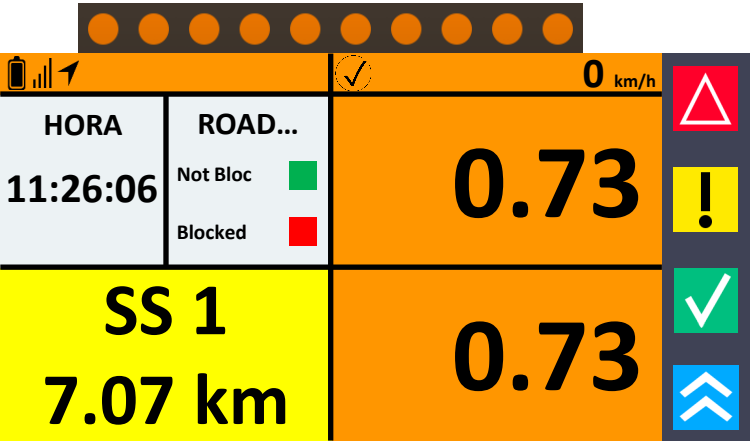


Image 4. Breakdown Display

If the road is blocked: press the **RED** button



If the road is NOT blocked: press the **GREEN** button



The following icon will be displayed when race control has confirmed its receipt: 



+ 3s

It is possible to exit this menu by pressing the green button for 3 seconds

# EMERGENCY (SOS)

 +  1s

To indicate that the participants are in an Emergency situation (SOS), the **RED and YELLOW** buttons must be held down simultaneously for **1 SECOND**. After that, the display will turn red. It must be confirmed whether medical assistance or the intervention of the fire brigade is required.

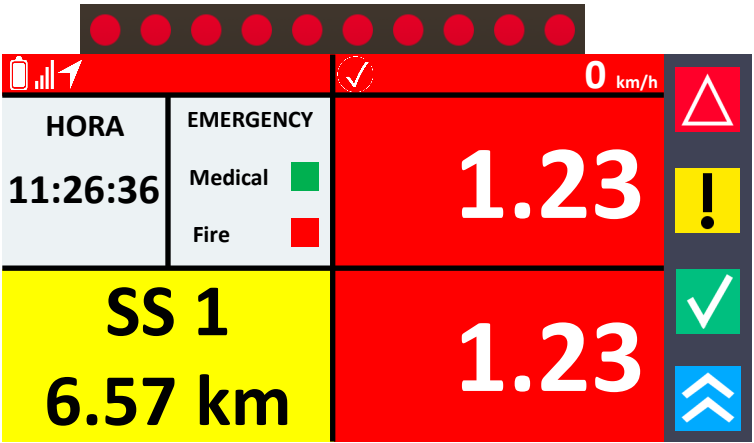


Image 5. Emergency (SOS) Display

RED BUTTON  
+  
YELLOW BUTTON  
(1 SECOND)

If the intervention of the fire brigade is required: press the **RED** button



If medical assistance is required: press the **GREEN** button



The following icon will be displayed when race control has confirmed its receipt: 

 + 3s It is possible to exit this menu by pressing the green button for 3 seconds

# EXTERNAL ALERTS

When another participant requests an SOS or alerts about a BREAKDOWN and is ahead, the following menus will appear informing about the situation:

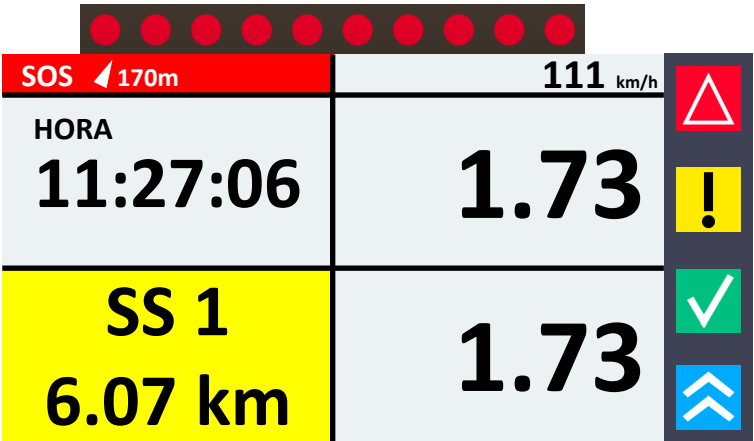
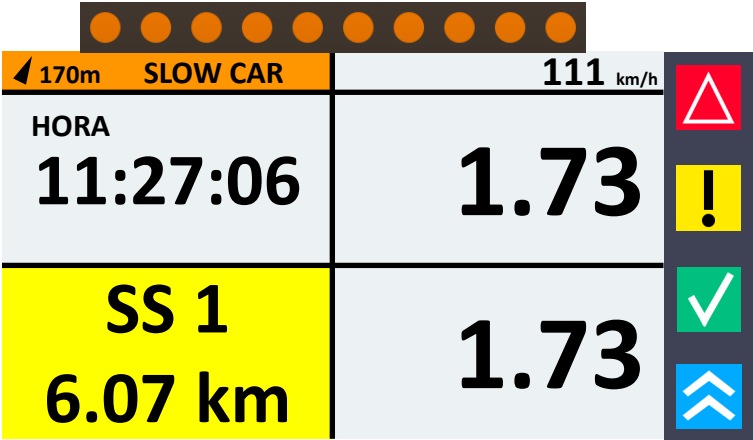


Image 6. External SOS Display



Image 7. External Breakdown Display

When there is a risk situation with another participant due to there being a large speed difference, for instance when the preceding vehicle is going excessively slow or is stopped without having triggered any alert, the following menu will appear informing of the situation:



The image shows a digital display interface for a 'SLOW CAR' alert. At the top, there is a horizontal bar with ten orange dots. Below this, the display is divided into several sections. On the left, a small orange box contains a left-pointing arrow and the text '170m'. Next to it, the text 'SLOW CAR' is displayed. To the right of this, the text '111 km/h' is shown. The main display area is a 2x2 grid. The top-left cell contains the text 'HORA' above '11:27:06'. The top-right cell contains the number '1.73'. The bottom-left cell has a yellow background and contains the text 'SS 1' above '6.07 km'. The bottom-right cell contains the number '1.73'. To the right of the grid, there is a vertical column of four icons: a red triangle, a yellow exclamation mark, a green checkmark, and a blue double arrow pointing up.

|                  |          |          |
|------------------|----------|----------|
| 170m             | SLOW CAR | 111 km/h |
| HORA<br>11:27:06 | 1.73     |          |
| SS 1<br>6.07 km  | 1.73     |          |

Image 8. Slow Car Display

# RED FLAG (INTERRUPTION)

✓ + 3s

When Race Direction decides to interrupt a special stage using a red flag, its reception must be confirmed by holding down the **GREEN** button for **3 SECONDS**, as shown below:



Image 9. Red Flag Display - Received

GREEN BUTTON  
(3 SECONDS)

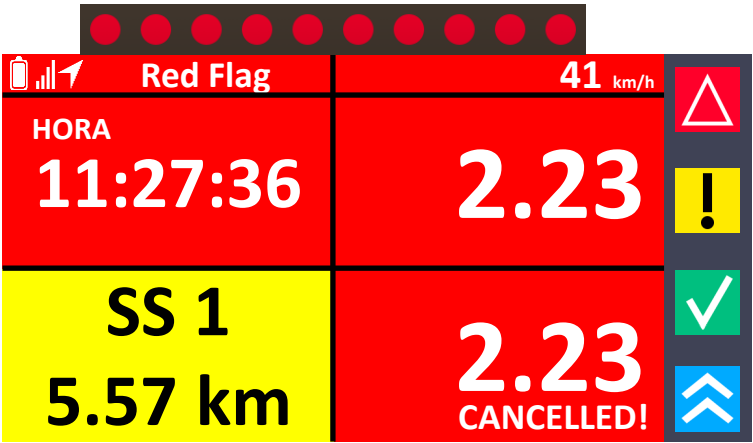


Image 10. Red Flag Display - Accepted

# BLUE FLAG (REQUEST)



To be able to request an overtaking of the preceding vehicle, it is necessary to press the **BLUE** button for **1 SECOND**. In order for this participant to receive said request, it will be necessary to have reached it.

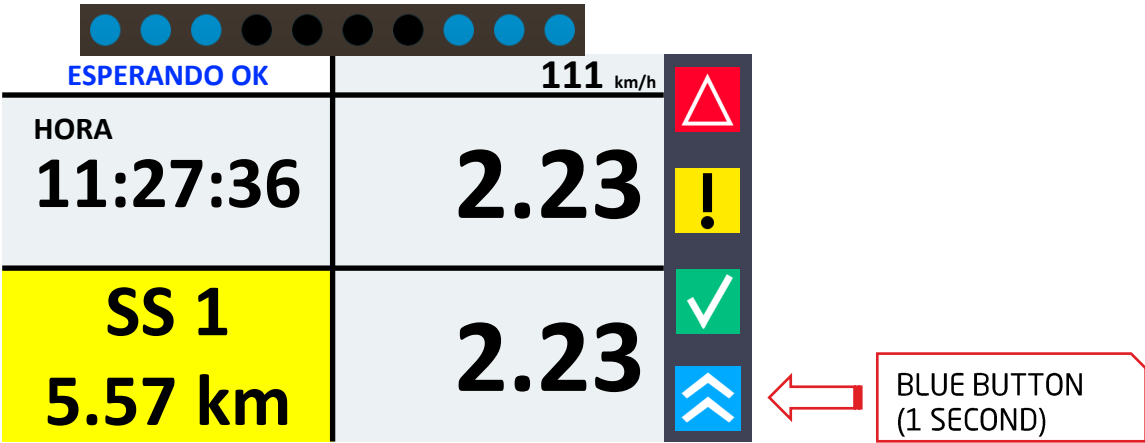


Image 11. Blue Flag Display - Requesting Overtake

Display that will be shown to the applicant together with flashing blue leds if the overtaking request conditions are not met



Image 12. Blue Flag Display - Waiting Confirmation

Display that will be shown to the applicant once the receiver has received the overtaking request

# BLUE FLAG (RECEIPT)



+ 1s

Once the overtaking has been requested and received, the participant who has received said request will be shown a Blue Flag and must confirm it as soon as possible to be able to indicate it to the applicant. To do this the **GREEN** button must be held down for **1 SECOND**:

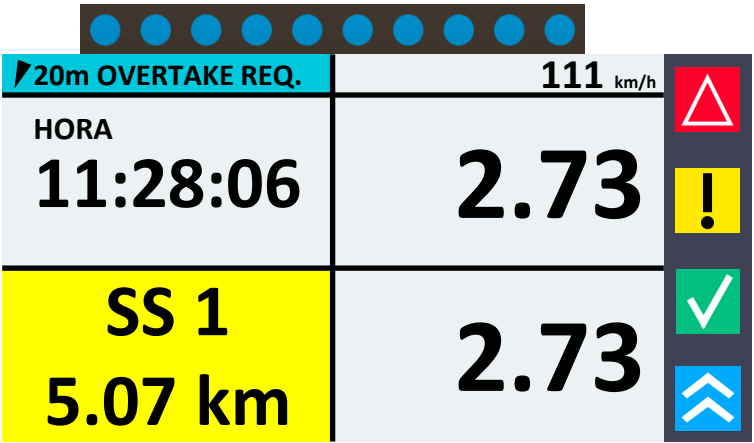


Image 13. Blue Flag Display - Overtaking Requested

Display that will be shown to the receiver of the Blue Flag, being necessary to hold down the GREEN button to confirm

GREEN BUTTON  
(1 SECOND)

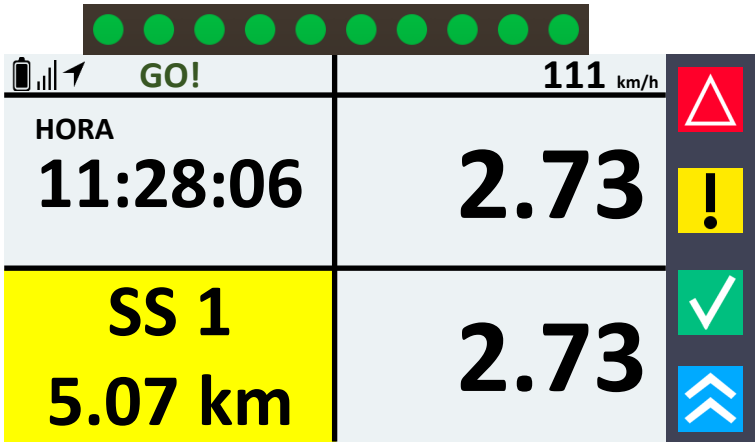


Image 14. Blue Flag Display - Overtaking Confirmed

Display that will be shown to the applicant once the receiver has accepted the overtaking

# MESSAGES



Confirmation messages can be sent from Race Direction to the participants. These messages will require confirmation by pressing the GREEN or RED button, depending on the desired response, and holding it down for **1 SECOND**:

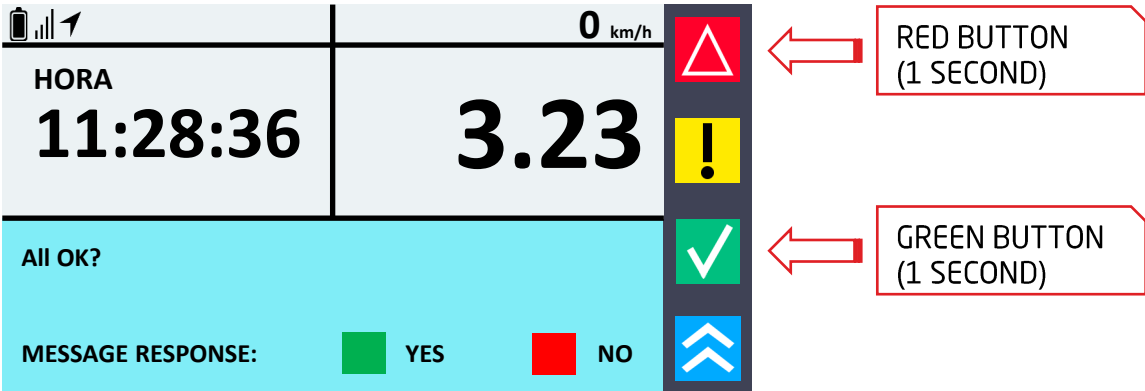


Image 15. Message - YES/NO response

It must be answered “YES” by holding down the GREEN button or “NO” by holding down the RED button

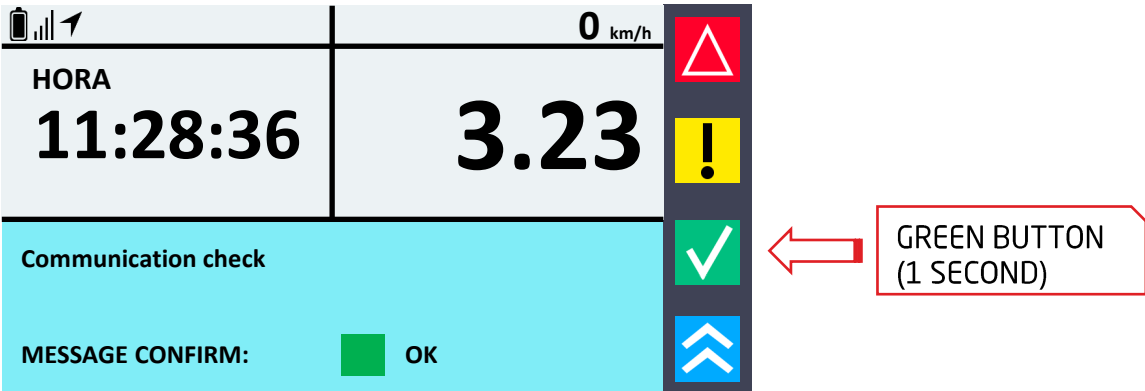


Image 16. Message - Read Confirmation

# VIRTUAL CHICANE

Virtual Chicanes indicated in the Roadbook will be displayed as follows:

|                  |          |                                                                                                                                                                        |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 120m V. CHICANE  | 111 km/h |                                                                                       |
| HORA<br>11:28:16 | 2.93     |                                                                                       |
| SS 1<br>4.87 km  | 2.93     | <br> |

Image 17. Virtual Chicane Proximity

|                  |          |                                                                                                                                                                            |
|------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SLOW DOWN!       | 132 km/h |                                                                                         |
| HORA<br>11:28:21 | 3.06     |                                                                                         |
| SS 1<br>4.74 km  | 3.06     | <br> |

Image 18. In Virtual Chicane

|                                                                                                                                                                                                                                                                 |         |                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    GO! | 59 km/h |                                                                                         |
| HORA<br>11:28:24                                                                                                                                                                                                                                                | 3.09    |                                                                                         |
| SS 1<br>4.71 km                                                                                                                                                                                                                                                 | 3.09    | <br> |

Image 19. Virtual Chicane Validated

The KIT provided through the AI Kamel Systems [E-commerce](#) also includes a summary sticker with the button functionalities:

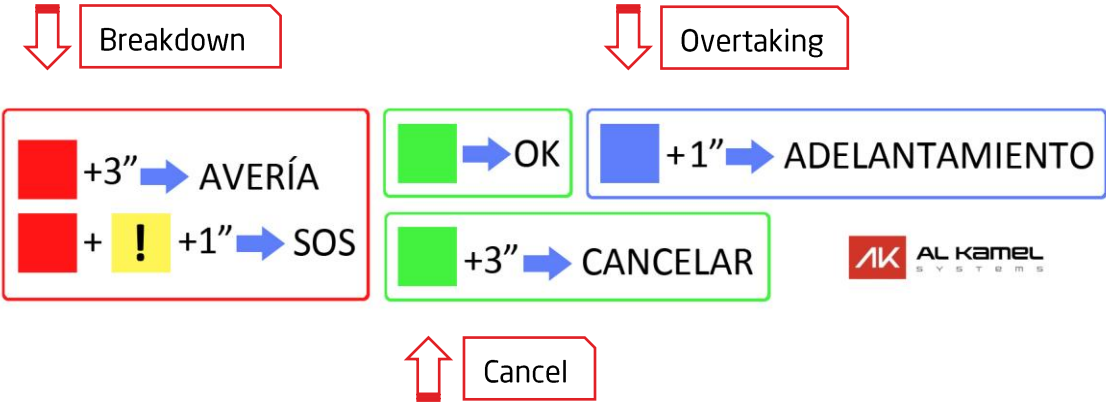


Image 17. Summary Sticker

For any question, please send an email to the following address: [info@alkamelsystems.com](mailto:info@alkamelsystems.com)

We solve our clients' matters.

Al Kamel Systems S.L.

Tel: +34 935 100 480

Email: [info@alkamelsystems.com](mailto:info@alkamelsystems.com)



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