



AL KAMEL SYSTEMS - PPTRACKER SYSTEM

Timekeeping Services | Race Control Solutions | TV Graphics | Rally Tracking
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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 velcro, it can be fixed.

1 day Reconnaissance:

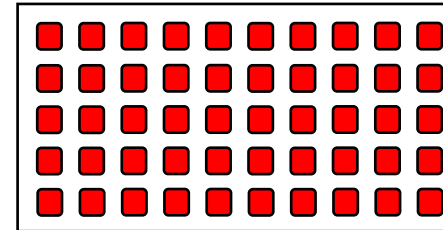


Several days Reconnaissance:



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.



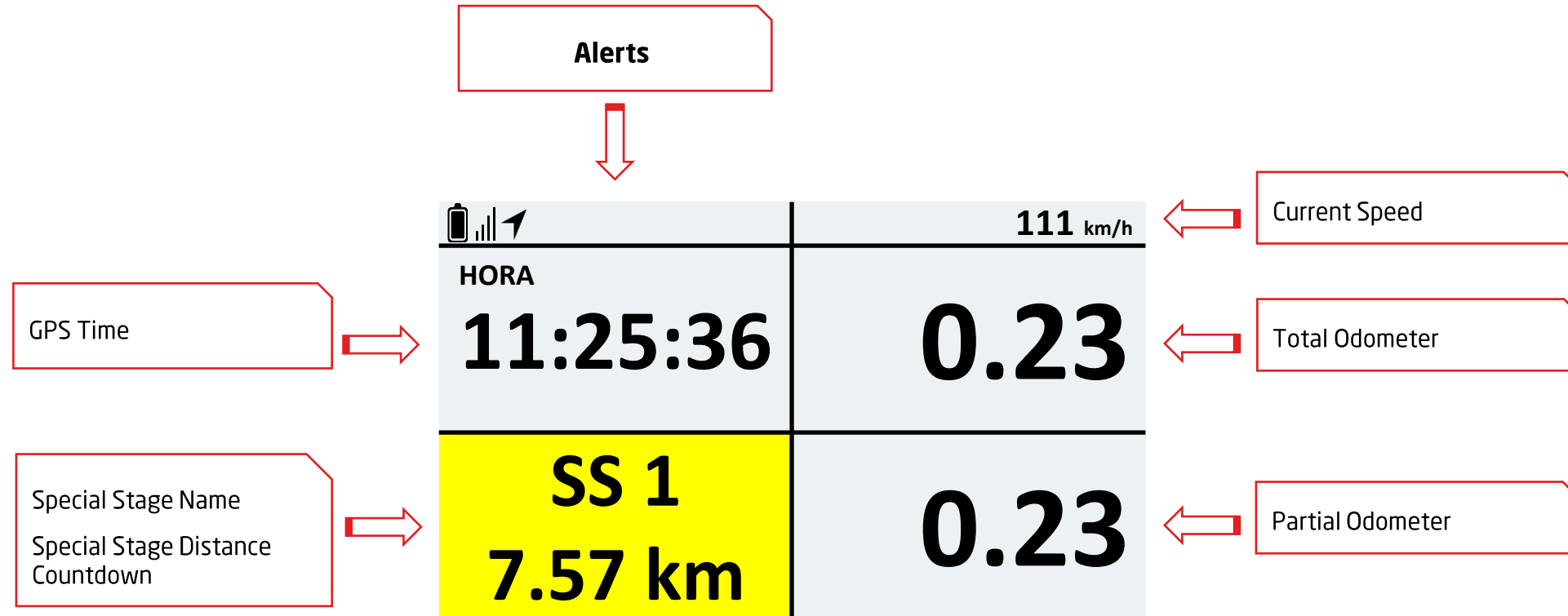









Image 1. MAIN SCREEN








! / **!** + 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 11:25:36	0.23	
SS 1 7.57 km	0.00	 

YELLOW BUTTON

Image 2. Reset Partial Odometer

  	111 km/h	
HORA 11:25:36	0.00	
SS 1 7.57 km	0.00	 

YELLOW BUTTON
(3 SECONDS)

Image 3. Reset Total Odometer



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.

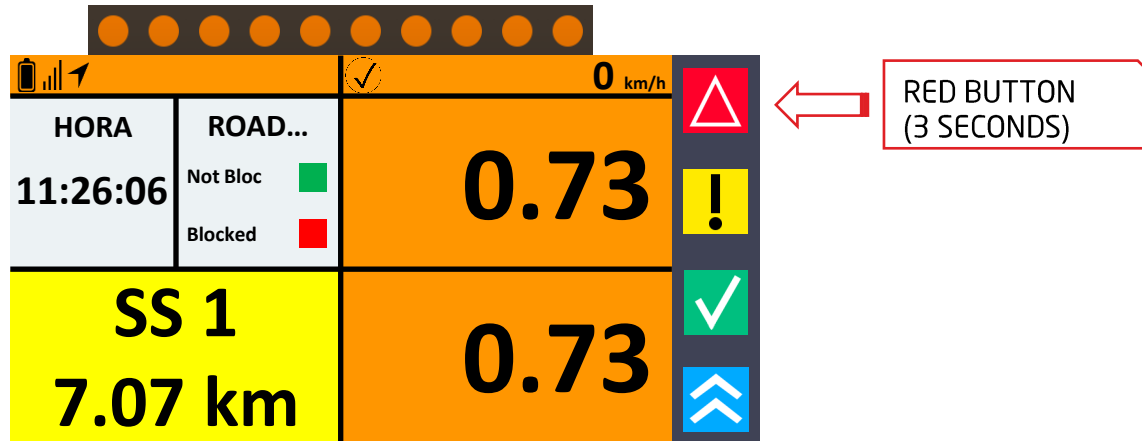


Image 4. Breakdown Display

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



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.

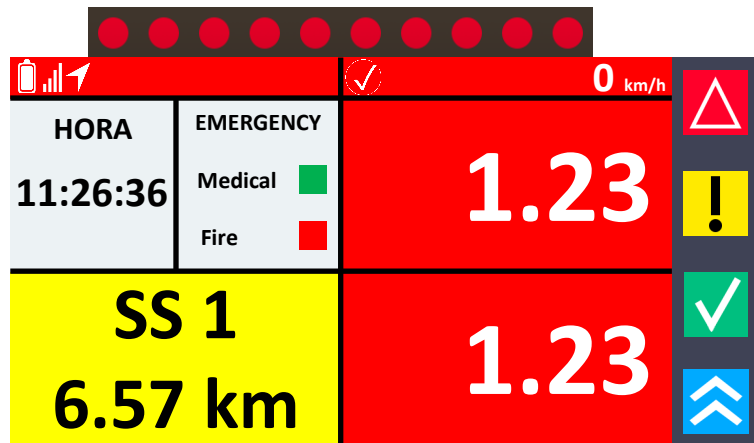


Image 5. Emergency (SOS) Display

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

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

A digital display with a red header bar containing 'SOS' and a left-pointing arrow with '170m'. The display is divided into a 2x2 grid. The top-left cell shows 'HORA' and '11:27:06'. The top-right cell shows '111 km/h' and a red triangle warning icon. The bottom-left cell has a yellow background and shows 'SS 1' and '6.07 km'. The bottom-right cell shows '1.73' and a blue double-up arrow icon. A vertical bar on the right side contains three icons: a red triangle, a yellow exclamation mark, and a green checkmark.

SOS ◀ 170m	111 km/h	⚠
HORA 11:27:06	1.73	!
SS 1 6.07 km	1.73	✓
		⬆

Image 6. External SOS Display

A digital display with an orange header bar containing a warning triangle, a left-pointing arrow with '170m', and the word 'AVERIADO'. The display is divided into a 2x2 grid. The top-left cell shows 'HORA' and '11:27:06'. The top-right cell shows '111 km/h' and a red triangle warning icon. The bottom-left cell has a yellow background and shows 'SS 1' and '6.07 km'. The bottom-right cell shows '1.73' and a blue double-up arrow icon. A vertical bar on the right side contains three icons: a red triangle, a yellow exclamation mark, and a green checkmark.

⚠ ◀ 170m AVERIADO	111 km/h	⚠
HORA 11:27:06	1.73	!
SS 1 6.07 km	1.73	✓
		⬆

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:

◀ 170m SLOW CAR		111 km/h	
HORA	11:27:06	1.73	
	SS 1	1.73	
	6.07 km		

Image 8. Slow Car Display



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)

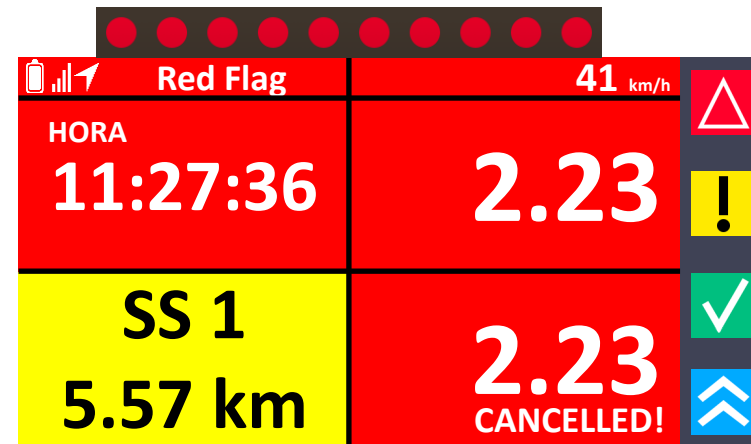
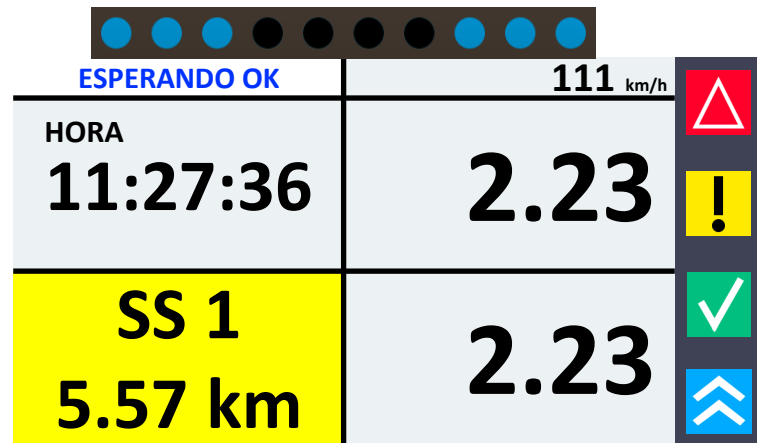


Image 10. Red Flag Display - Accepted



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.



BLUE BUTTON
(1 SECOND)

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

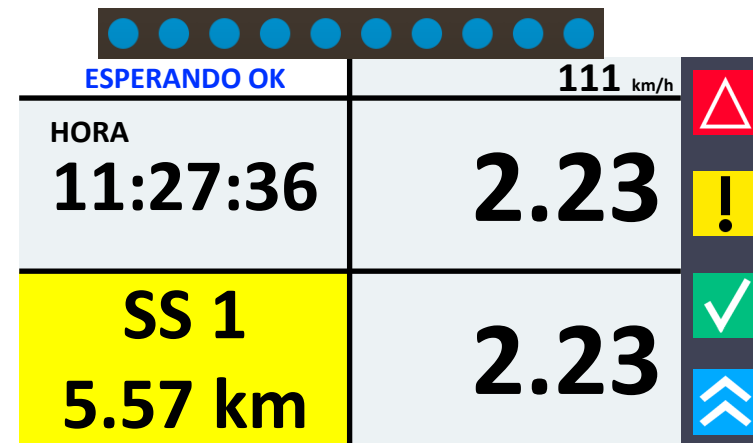
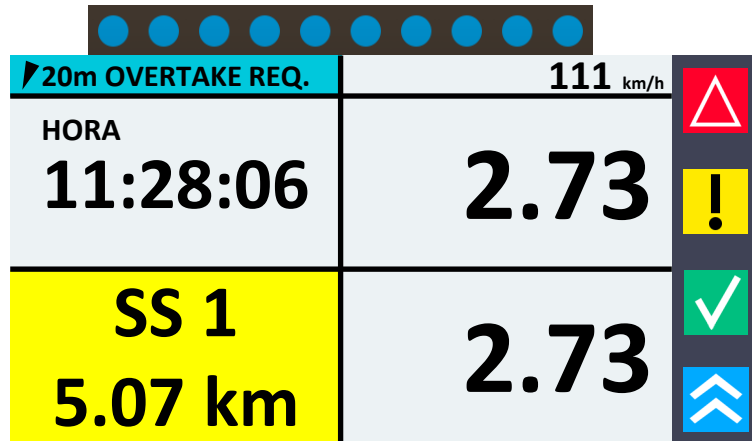


Image 12. Blue Flag Display - Waiting Confirmation

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

+ 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**:



GREEN BUTTON
(1 SECOND)

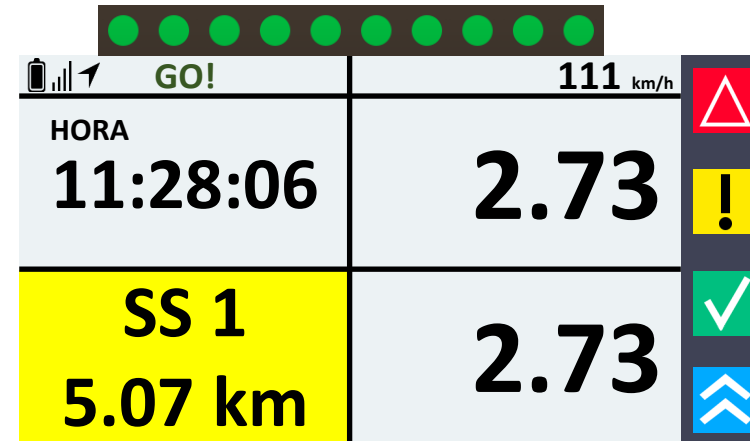


Image 13. Blue Flag Display - Overtaking Requested

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

Image 14. Blue Flag Display - Overtaking Confirmed

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



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**:

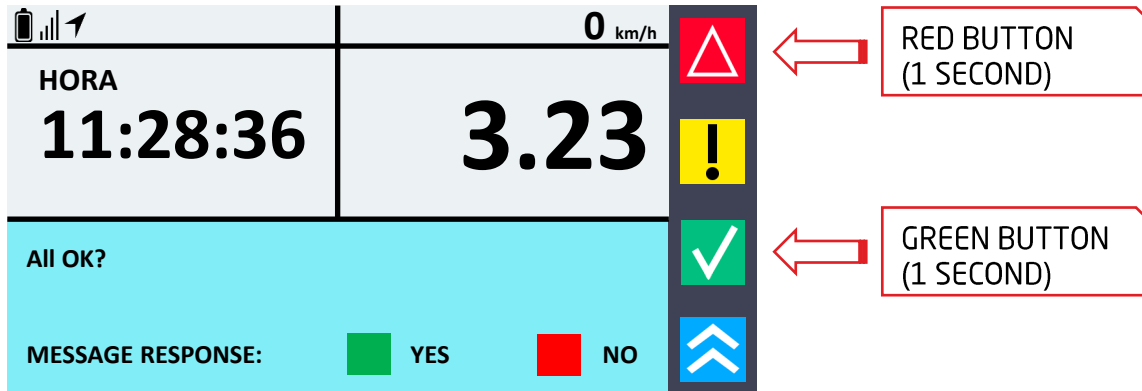


Image 15. Message - YES/NO response

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

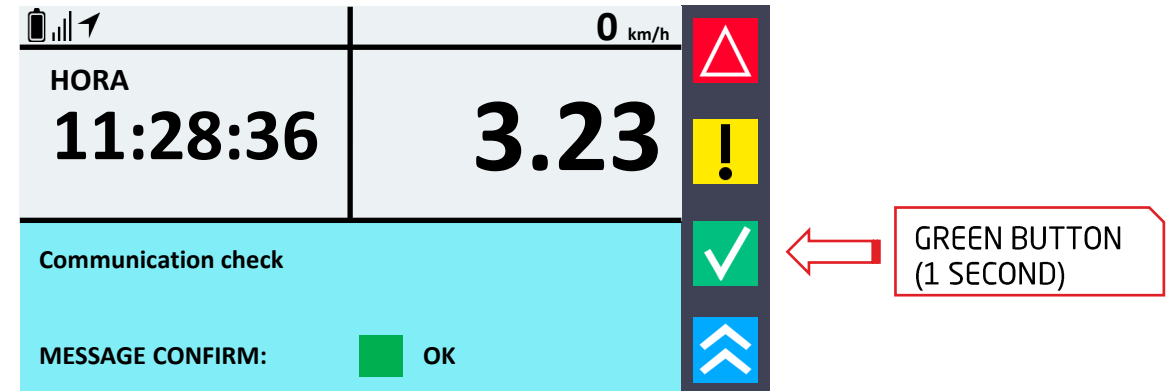
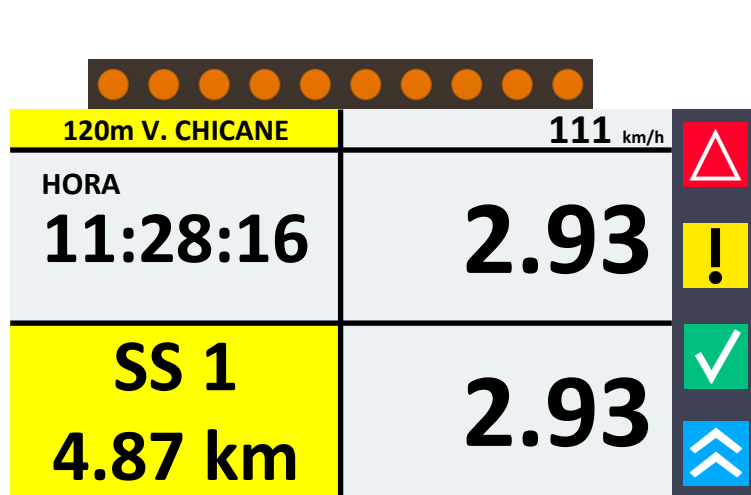


Image 16. Message - Read Confirmation

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

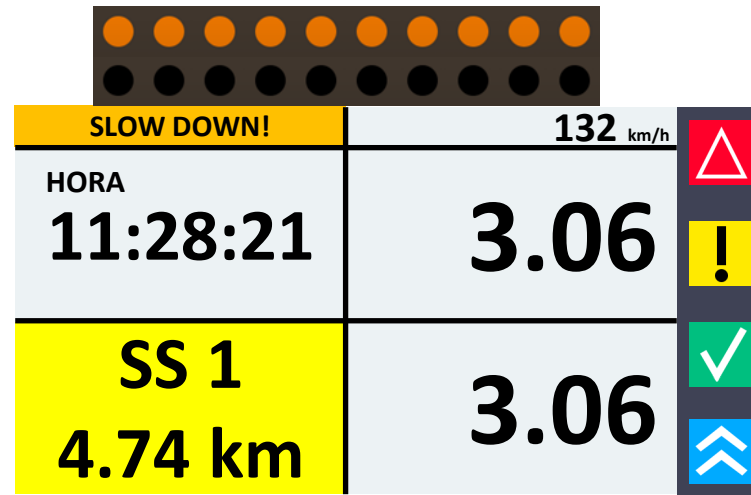


120m V. CHICANE

111 km/h

HORA 11:28:16	2.93	⚠
SS 1 4.87 km	2.93	✓ ⬆

Image 17. Virtual Chicane Proximity

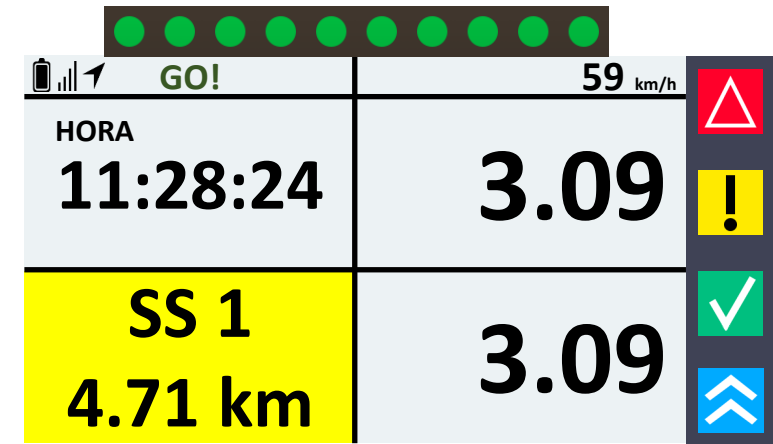


SLOW DOWN!

132 km/h

HORA 11:28:21	3.06	⚠
SS 1 4.74 km	3.06	✓ ⬆

Image 18. In Virtual Chicane



GO!

59 km/h

HORA 11:28:24	3.09	⚠
SS 1 4.71 km	3.09	✓ ⬆

Image 19. Virtual Chicane Validated

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

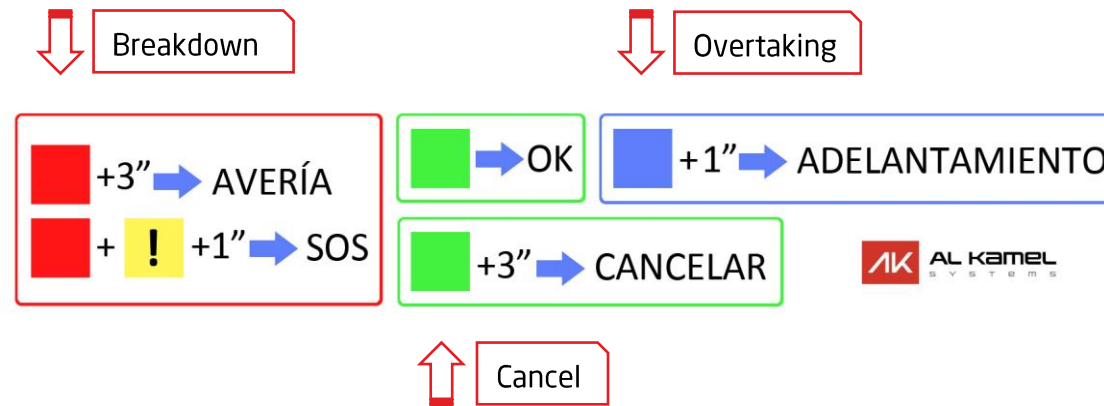


Image 17. Summary Sticker

For any question, please send an email to the following address: info@alkamelsystems.com

We solve our clients' matters.

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