

GPS-Safety system – Installation guide

Traxmeet RaceLive tracking and safety system operates in Android based mobile phone

System consists of tracking unit, holder and 1" ball mount that has to be installed to the rally cars. In addition there can be outer GPS-antenna in use.

RaceLive enables fast communication between the car and the HQ and gives safety in case of accidents.

Charging

Application in the phone works when screen of the phone is on. It consumes battery of the device and for this reason phone needs to be attached to power source during recce and rally. There is charging cable included with the device and in the car one has to have 5V power supply for the phone (and second source in case outer GPS antenna is in use). Cable has regular USB connector. Power can be given from car directly or for example from PowerBank.

Installation to the car

Device is installed using following holder. Holder has middle part that is attached to the 1" mounting ball which has to be secure connected in the car so that it can hold the weight of the tracking device and will not get loose in case car crashes. **Tracking unit has to be installed to a location where**

- both drivers can reach the device screen without opening the seatbelt
- both drivers see the screen of the device while driving.

To get best possible GPS and Network signal it is recommended to install it close to the front window eg in dashboard panel.

Tracking unit

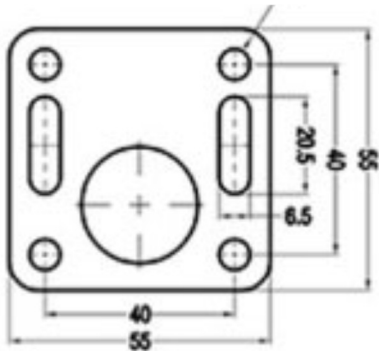
Tracking is done with application running in the phone.



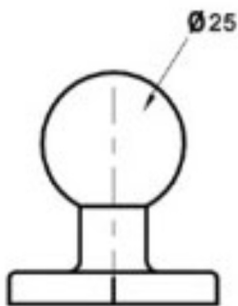
Installation



1" installation ball. This has to be solidly attached to the car taking in consideration that both drivers have to be able to reach the device attached here as said above.



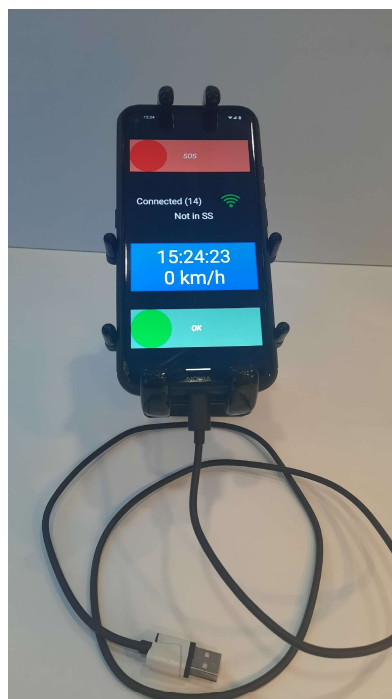
Normal measurement of the 1" ball.



There is middle part that connects the actual holder to the 1" ball and allows to turn the device to get best visibility to the screen.



Photos on the holder



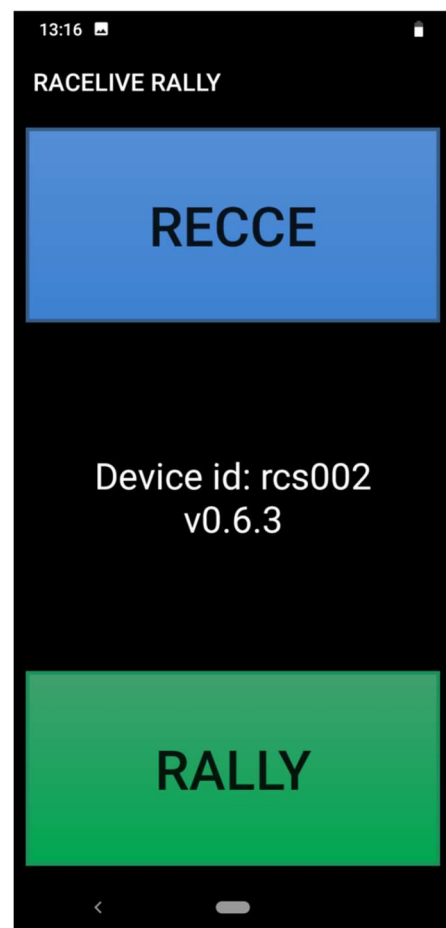
GPS-user manual of the tracking app

RaceLive tracking device uses carefully chosen and tested Android phones and RaceLive application installed to the phone.

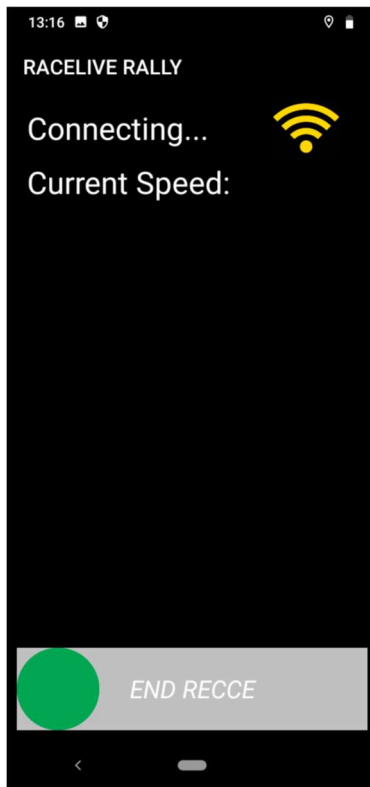
Turning power on to the device.

When device powers on RaceLive application will automatically open in a while and following main screen will open.

From the main view user can choose reconnaissance mode (RECCE) or race mode (RALLY). HQ can also automate opening of these modes.



Reconnaissance



Once RECCE mode is chosen following view is opened.

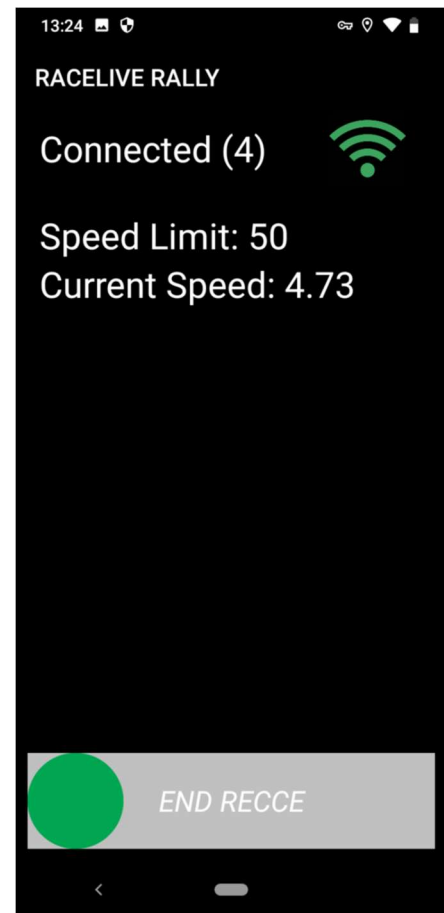
Keep the device in a place where you can see the screen and keep the screen on.

Keep the device connected to powersupply.

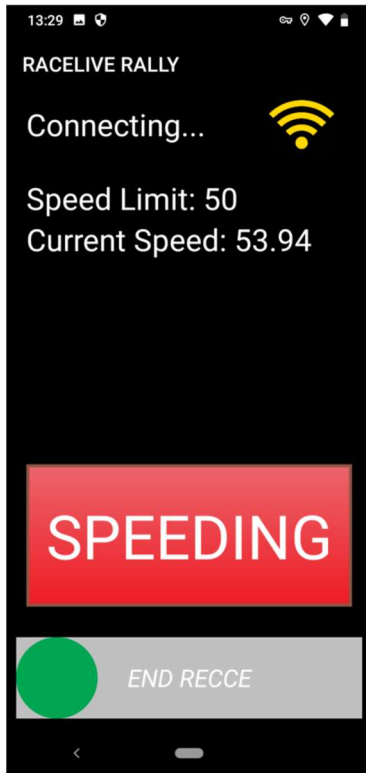
When device connects to network it shows connection, speed limit and special speed limit areas as well as current speed.

Device send information to RaceLive HQ application where speed, recce area visits, ... can all be seen. It is mandatory to ensure that device is on at all times during recce and race.

When recce has ended user can end the RECCE mode from the slider button in the bottom. During night close the screen.



Speeding



In case driving faster than given speed limit SPEEDING warning will be shown in the screen and audio signal is given. Device shows speedlimits set by organizer not speed limits of regular traffic signs.

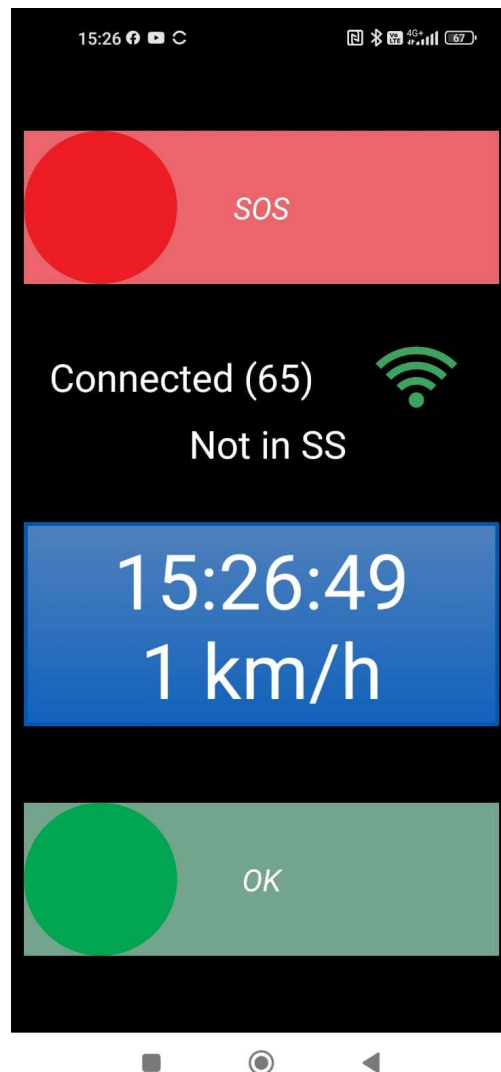
Speedings are all recorded to the system database.

Messaging

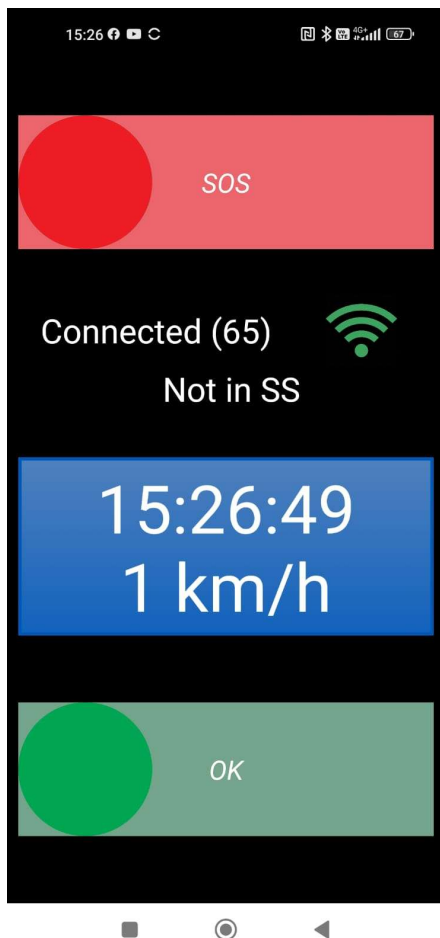
HQ can send messages to the drivers. In this case screen turns blue showing the sent message and having YES and NO buttons to reply to it (see more in RACE mode part). For this reason keep an eye to the screen.

Race mode

When choosing race mode (RALLY) following view will come visible.



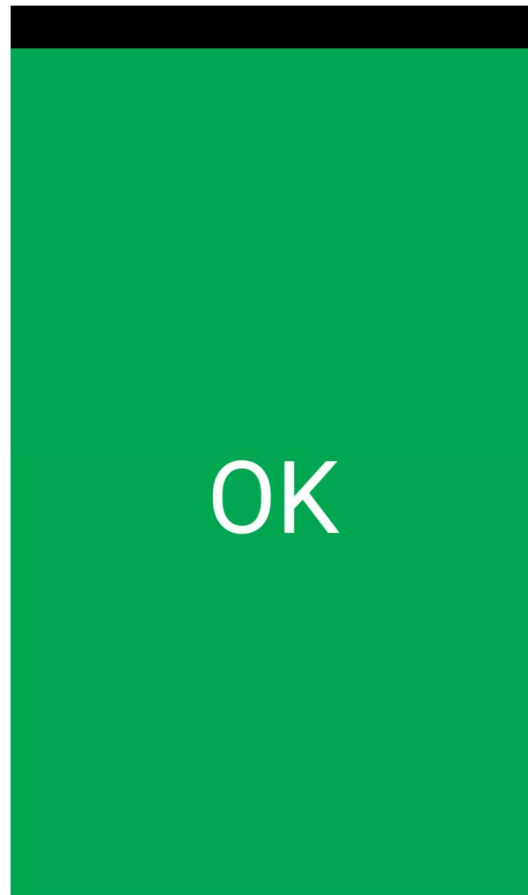
Race mode



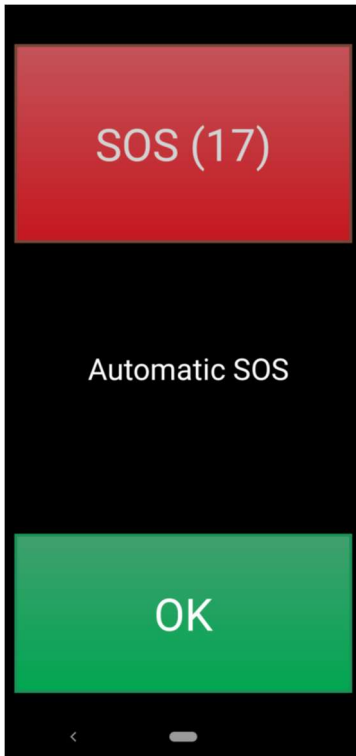
When connection to server and satellites is achieved view stays like this. allowing to send SOS or OK messages to HQ according rally rules.

When pushing OK screen looks like this for 5 seconds. This information is set to HQ. After 5 seconds view returns to basic race mode view.

Depending on the RaceLive version there may come additional view asking reason for the OK button. These reason vary depending on the organizers wishes.



Stopping in SS – SOS

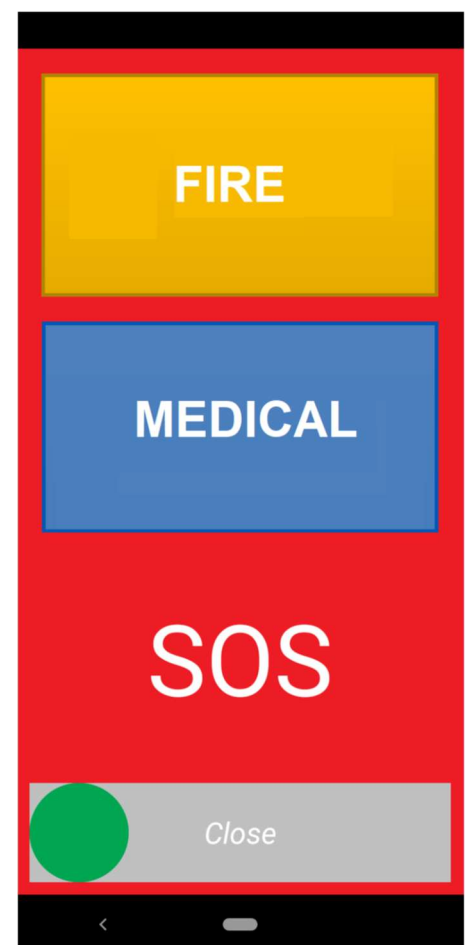


In case users stops in SS for more than 15 seconds device start count down for 20 seconds. During this time user can push SOS or OK which will be then sent to HQ view. In case user does not push either button HQ gets notification that car has stopped in SS. This function is used only in special stages not in transit parts.

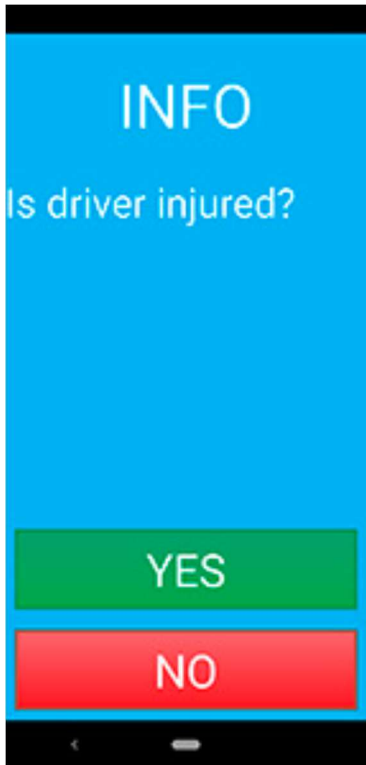
After car moves again it re-activates this feature once 60kph speed has been achieved.

Once SOS button is pushed there will be additional questions on reason for the SOS. These reason codes vary per RaceLive application version and depend on the organizer. Push the correct reason or in case it was false SOS slide the CLOSE slider in the bottom from left to right.

Once reason button is pushed it will blink for a while. View will go back to basic view once HQ has pushed acknowledgement in the HQ side informing user that HQ has seen the SOS message.



Messaging



HQ can send messages to drivers. When this happens following view will come visible.

User needs to reply to this by pushing

YES

NO

There may be several questions coming one after another so keep looking for the screen.

RedFlag / YellowFlag

HQ can send Red and Yellow flags to device. In case of RedFlag lower your speed and push OK to notify HQ you have seen the flag.

ONLY HQ can turn off the flag so as long as it is visible drive slow and wait for further instructions.

Yellow flag is sent to warn of something ahead which does not need RedFlag. So have higher alert when you get this flag.



Slow car warning

Device has feature to warn slower cars ahead. When system has detected slower car it will send alert to driver as shown in picture below. This function is based on TrackingDevices sending data to server. Then server detects slow cars based on speed value given by the organizer. Once other car comes within 300m of this slow car alarm is shown. In case there is poor network coverage this warning may not come. **This features meaning is to help warn on slower cars ahead, but it is not absolute and driver can not rely that it comes in all cases.**

NOTE! Organizer always chooses if this feature is active or not

