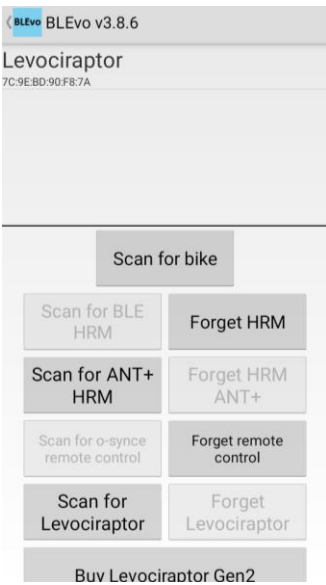
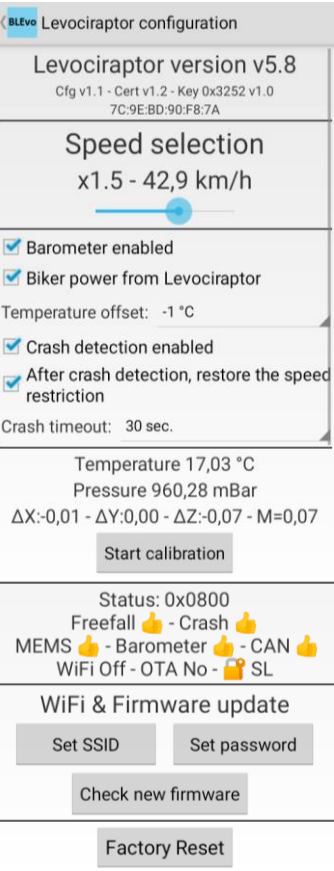
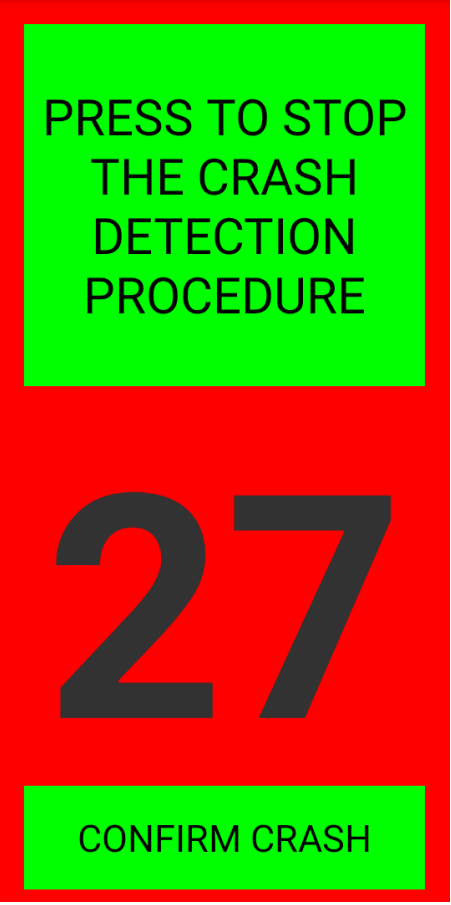


# 16 (Optional) Levociraptor Gen2

BLEvo can configure and manage the information of the Levociraptor Gen2. For more information on the device, visit the website: <https://www.levociraptor.com>

**Please note:** The unlock of the speed limiter in public places such as streets, squares and cycle paths is FORBIDDEN BY THE LAW. Therefore, it is possible to activate the unlock in private circumscribed places such as circuits, tracks and private properties. Mounting the device may void the factory warranty of the bicycle. The manufacturer declines all responsibility for any damage caused to pedal assisted bicycles on which the Levociraptor system is mounted. The manufacturer declines all responsibility for damage to persons or things caused or in any way linked to the use of Levociraptor.

	<p>After installing the device, turn on the bike.          To pair the Levociraptor with BLEvo, enter the BLEvo configuration and enter the search menu for Bluetooth peripherals.          Press the “Scan for Levociraptor” button and the found device will be displayed. Click on the found device and the connection will be made</p>
	<p>Once connected to the Levociraptor it is possible to configure:</p> <ul style="list-style-type: none"> <li>• <i>Speed Selection:</i> you can select the maximum speed.</li> <li>• <i>Barometer enabled:</i> the Levociraptor device has a barometer that can be used to have a good quality in measuring the altitude and the difference in height performed</li> <li>• <i>Biker power from the Levociraptor:</i> Levociraptor can send the rider's leg power to BLEvo much faster than the TCU. This allows for better responsiveness of the Smart Power</li> <li>• <i>Temperature offset:</i> the Levociraptor device also has a thermometer to be able to monitor and record the temperature during the lap. If you feel that the displayed measurement is incorrect, you can correct it using this offset.</li> <li>• <i>Enable Crash Identification:</i> The Levociraptor device also has an accelerometer to identify when an accident occurs. This <i>option enables the sensor.</i></li> <li>• <i>After Crash Identification Reset Speed Unlock:</i> Once the crash is identified, Speed Unlock will be reset. Remember that you need to turn off the bike before a full reset is done</li> <li>• <i>Crash timeout:</i> after this time, the identification of the crash is confirmed and a message is prepared to be sent with the GPS coordinates of the crash.</li> </ul>

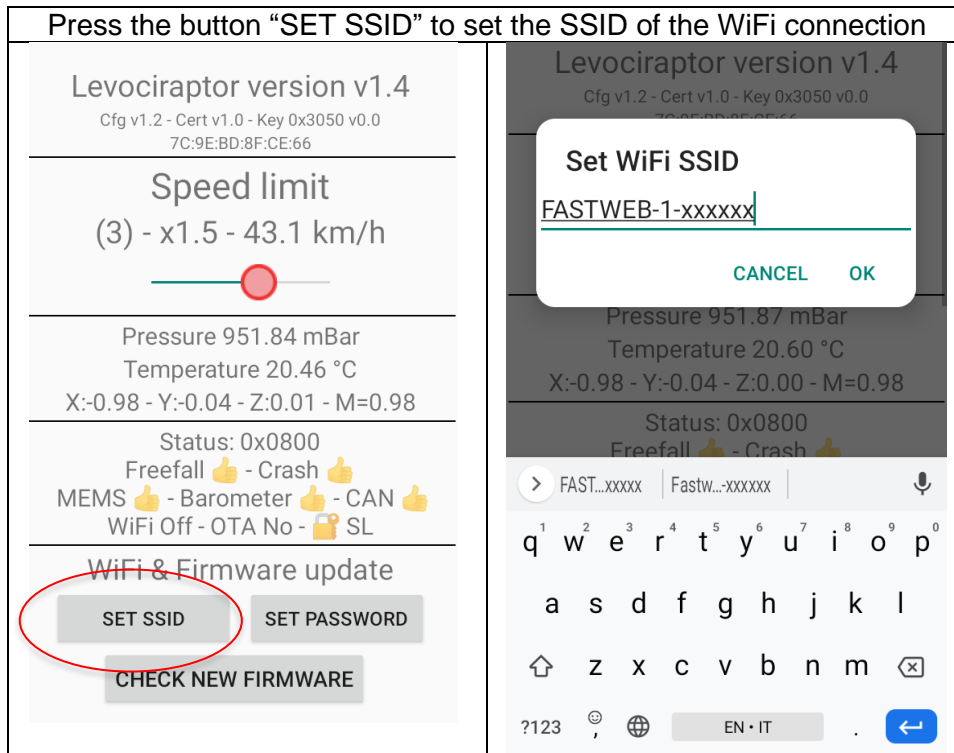
	<p>It is necessary to calibrate the accelerometer in order to identify when the bike is on the ground and therefore a crash. To do this, start the calibration with the appropriate button.</p> <p>BLEvo can also update the Levociraptor firmware in case there is a new version with new features.</p>
	<p>If the crash identification is activated, during the ride if BLEvo identifies the bike on the ground, the crash identification procedure starts and after the timeout, a message will be prepared with the GPS coordinates of the crash and, if selected, the derestriction of the speed is removed.</p> <p>If the crash has been incorrectly identified, you can interrupt the procedure with the appropriate button.</p> <p>To avoid a false crash by putting the bike on the ground, before putting the bike on the ground, stop and wait 3 seconds. After these 3 seconds, the identification of the crash will be disabled. It will then be re-enabled when a cadence greater than 30rpm is identified.</p>

## 16.2 Levociraptor Firmware Update

Here below is described how to update the firmware of the Levociraptor Gen2.

First of all, you need a WiFi connection and the parameter (SSID and password) to connect to internet via Wifi. If the bike is not close your home WiFi connection, you can use your phone as Hot Spot. Please refer to the instruction of your phone to understand how to create a WiFi hot spot with your phone.

Press the button "SET SSID" to set the SSID of the WiFi connection



Levociraptor version v1.4  
Cfg v1.2 - Cert v1.0 - Key 0x3050 v0.0  
7C:9E:BD:8F:CE:66

Speed limit  
(3) - x1.5 - 43.1 km/h

Pressure 951.84 mBar  
Temperature 20.46 °C  
X:-0.98 - Y:-0.04 - Z:0.01 - M=0.98

Status: 0x0800  
Freefall 👍 - Crash 👍  
MEMS 👍 - Barometer 👍 - CAN 👍  
WiFi Off - OTA No - 🗝️ SL

WiFi & Firmware update

SET SSID SET PASSWORD

CHECK NEW FIRMWARE

Set WiFi SSID

FASTWEB-1-xxxxxx

CANCEL OK

Pressure 951.87 mBar  
Temperature 20.60 °C  
X:-0.98 - Y:-0.04 - Z:0.00 - M=0.98

Status: 0x0800  
Freefall 👍 - Crash 👍

FAST...xxxxx Fastw...xxxxxx

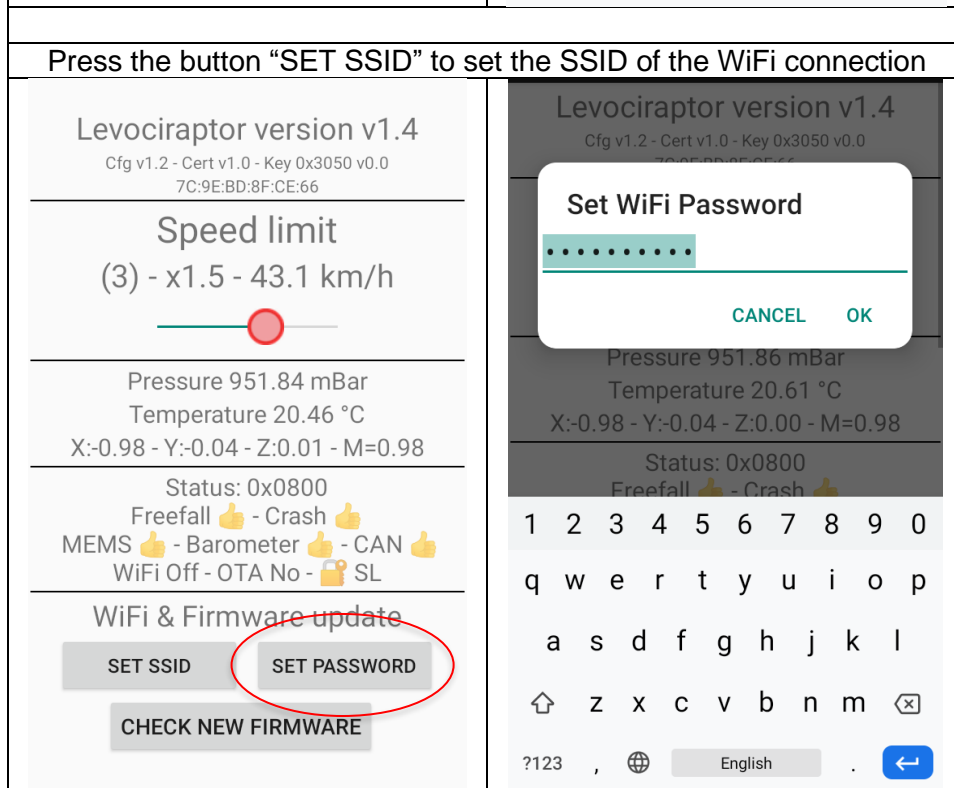
q w e r t y u i o p

a s d f g h j k l

z x c v b n m

?123 , . EN • IT

Press the button "SET SSID" to set the SSID of the WiFi connection



Levociraptor version v1.4  
Cfg v1.2 - Cert v1.0 - Key 0x3050 v0.0  
7C:9E:BD:8F:CE:66

Speed limit  
(3) - x1.5 - 43.1 km/h

Pressure 951.84 mBar  
Temperature 20.46 °C  
X:-0.98 - Y:-0.04 - Z:0.01 - M=0.98

Status: 0x0800  
Freefall 👍 - Crash 👍  
MEMS 👍 - Barometer 👍 - CAN 👍  
WiFi Off - OTA No - 🗝️ SL

WiFi & Firmware update

SET SSID SET PASSWORD

CHECK NEW FIRMWARE

Set WiFi Password

.....

CANCEL OK

Pressure 951.86 mBar  
Temperature 20.61 °C  
X:-0.98 - Y:-0.04 - Z:0.00 - M=0.98

Status: 0x0800  
Freefall 👍 - Crash 👍

1 2 3 4 5 6 7 8 9 0

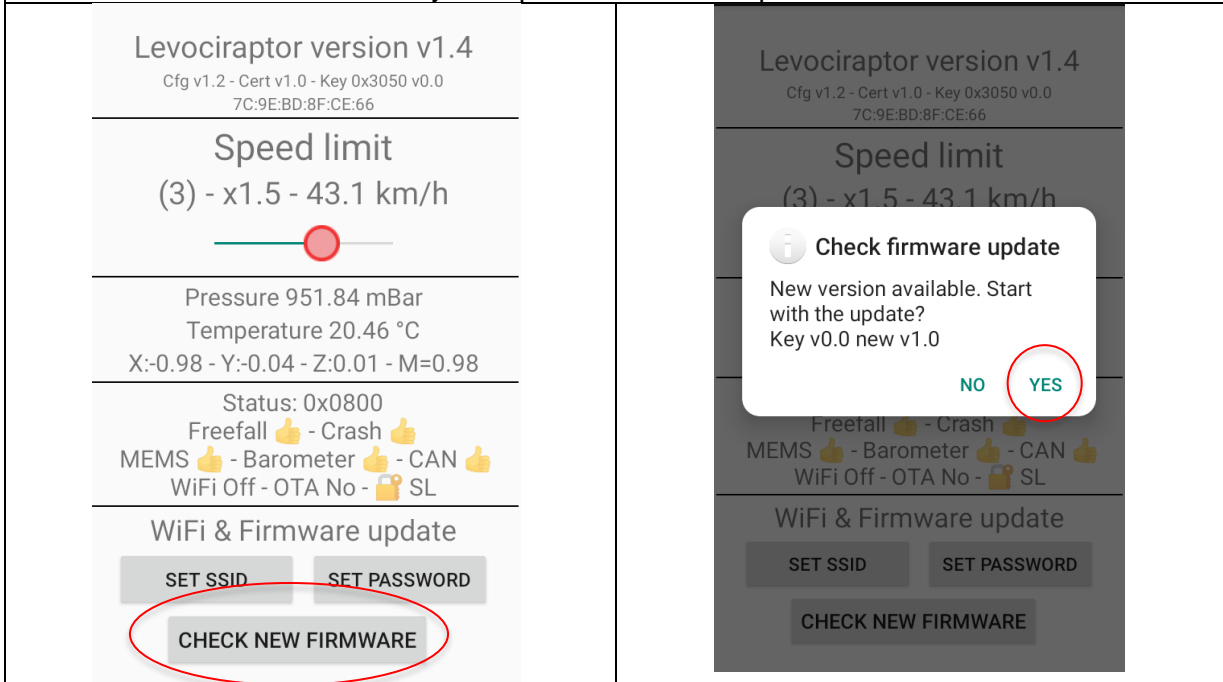
q w e r t y u i o p

a s d f g h j k l

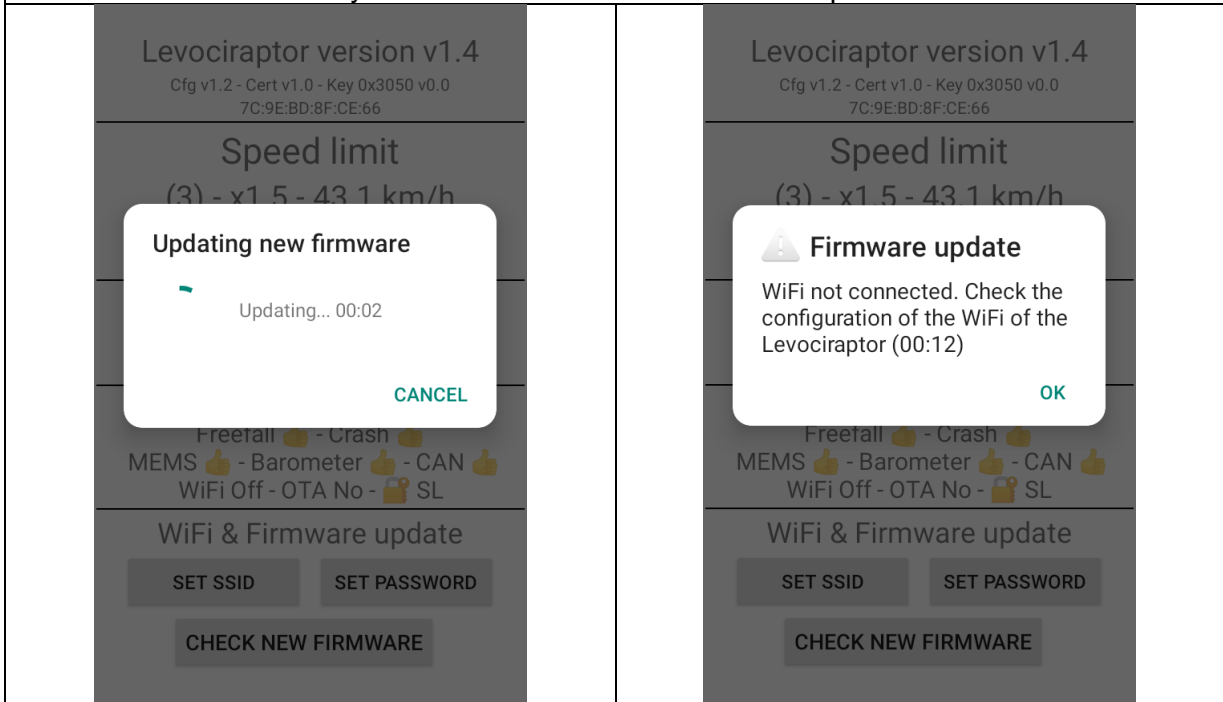
z x c v b n m

?123 , . English

Press the button "Check New Firmware". If something should be updated, the App will ask to you to proceed with the update



Wait the end of the update. After the update you should switch off and on the eBike and you should reconnect to the Levociraptor



Example of versions before update

Levociraptor version v1.4  
 Cfg v1.2 - Cert v1.0 - Key 0x3050 v0.0  
 7C:9E:BD:8F:CE:66

Example of versions after update

Levociraptor version v1.4  
 Cfg v1.2 - Cert v1.0 - Key 0x3050 v1.0  
 7C:9E:BD:8F:CE:66