Rev Guardian usage guide

What is Rev Guardian?

Rev Guardian is a device used to measure the engine revs in a fully autonomous way. It can be connected to a computer running the recording software to download the session data and analyze it.

What is in the Rev Guardian kit?

The system we provide is composed of :

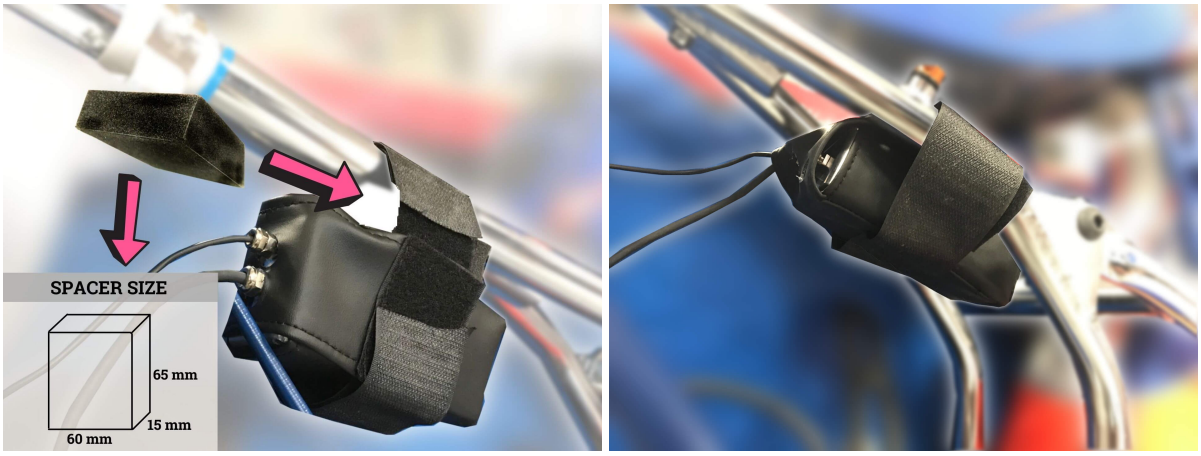
- the Rev Guardian box/system
- the Power charger to charge the internal battery
- the Usb dialogue connection wiring
- the Scratch clamp for an easy mounting
- the Data recording Software

1) Connect the Rev Guardian to the power charger

Make sure the Rev Guardian is fully charged : 7,4 V (Green light indicates that the battery has reached the full charge). The system has an autonomy of 7-8 hours of continuous usage.

2) Where to place the Rev Guardian

Mount the REV Guardian on the bike making sure it is either **suspended** or **protected by a foam spacer** to prevent damage from vibrations to the electronics.



⚠ *If damage is done to the device by an incorrect installation we don't take any responsibility.*

3) How to connect the Rev Guardian

Rev Guardian has two cables:

- The black one is connected to the spark plug cap and it's used to record the rev engine data.

-The JST 8poly used to connect the device to a computer running the program to download the data.

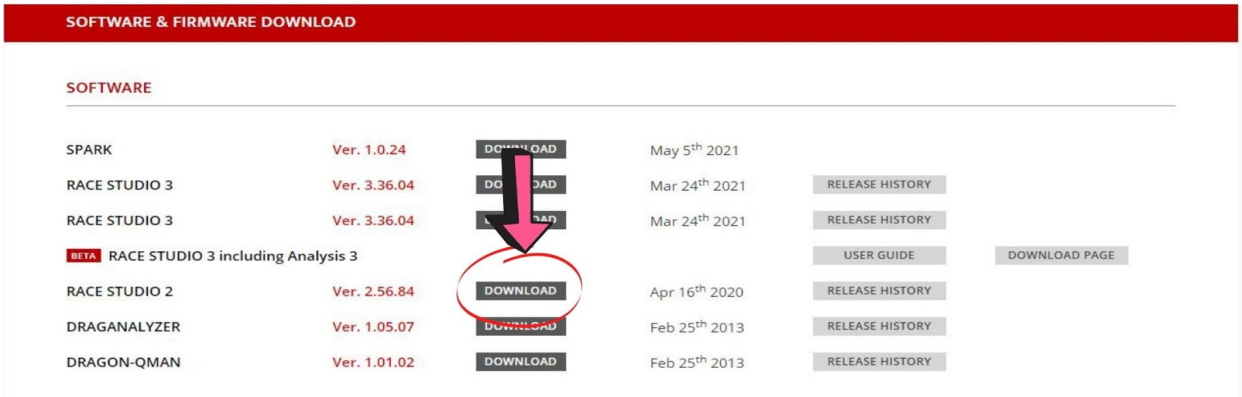
4) How to activate the system

Inside the Rev Guardian kit you will find a key that will allow you to activate the device switch as you can see in the pictures below. (A yellow light indicates the device is turned on)

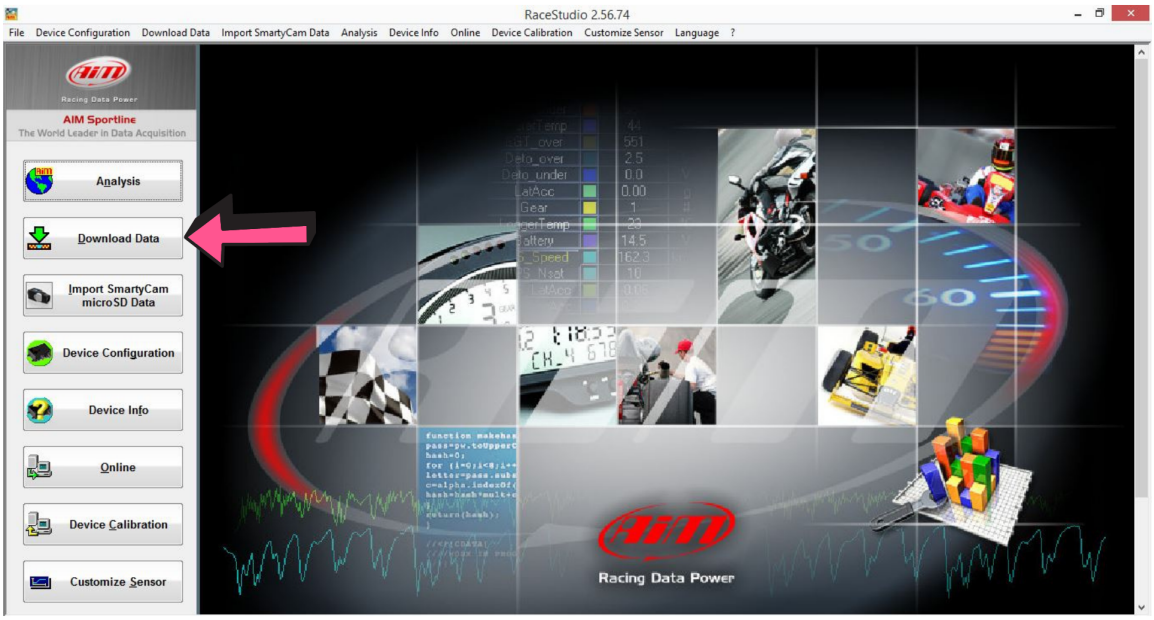
The key is removed after the device is turned on making sure the pilot cannot tamper with it.

5) Download data

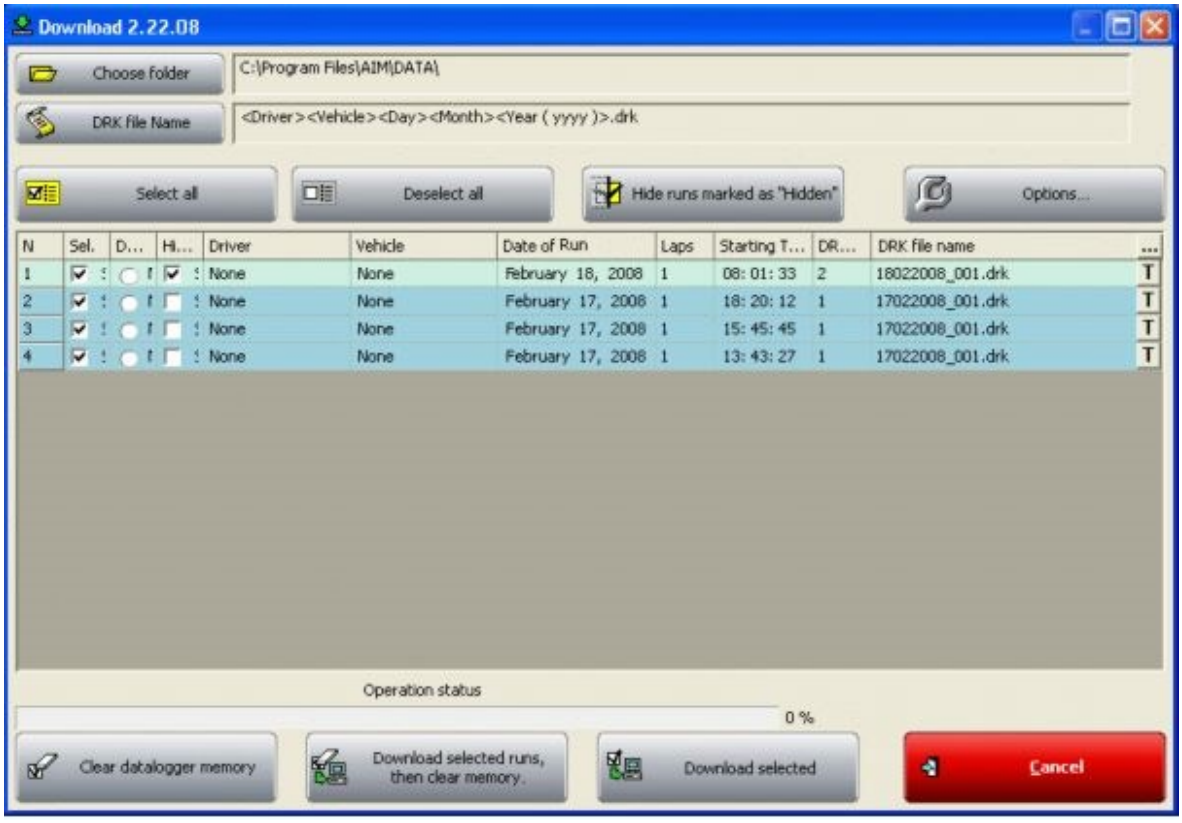
Once a test session is over it is possible to download data sampled by the logger. Connect the Rev Guardian to a pc running AiM's Race Studio 2. Click here to download the program.



Press “Download data” on the menu bar.



Pressing the “**Download data**” button shows the window below.



Choose folder button

This button allows the user to select the file destination folder.

DRK File name button

This button allows you to save data with a custom name.

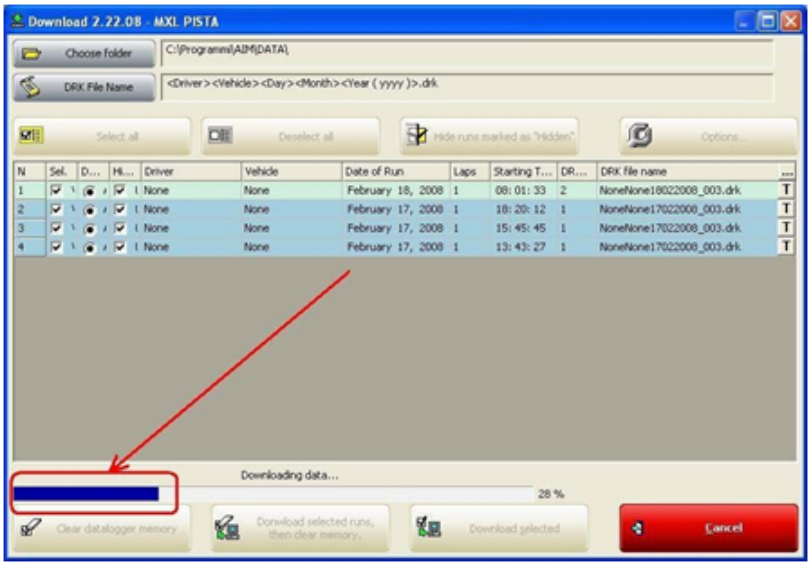
Central keyboard

These buttons allow you to decide which data to download.

- Pressing the "**Select all**" button all runs stored in the logger memory are downloaded.
- Pressing the "**Deselect all**" no run is downloaded.
- To download only some runs: select them manually in the central table. As shown here below, placing the mouse pointer near to each run the system automatically shows the actual setting of that run. Just change it as needed.

Bottom keyboard

Bottom buttons manage data download and memory deletion of the logger.

- "**Clear data logger memory**": deletes the logger memory without downloading data.
- "**Download selected runs, then clear memory**": downloads selected runs and then deletes the logger memory.
- "**Download selected**": downloads selected runs and does not clear logger memory.

When data download is set and data characteristics defined, press the desired download button. Download waiting bar starts showing the download progression and at the end the software comes back to **Race Studio 2** main window.