VIDEO VBOX
Version 3

- What's new?
- What are the benefits?
- How to upgrade to version 3?

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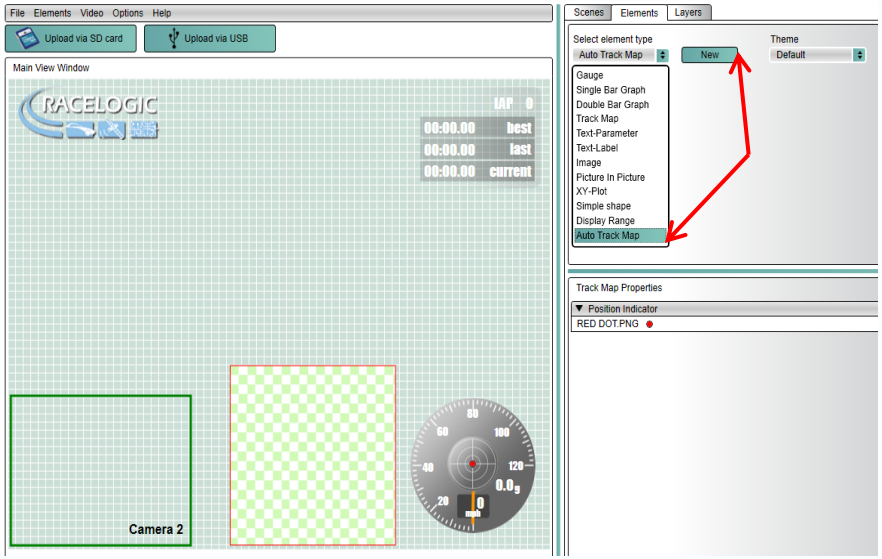
What's new?

Auto-Track Map (1)

- An Auto Track Map element uses the current GPS co-ordinates to search the track map database and automatically loads a circuit map and start/finish line.
- An element must be added to the Video VBOX scene and uploaded to the Video VBOX. The size of the auto track map is fixed and will appear in the centre of this box.



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What's new?

Auto-Track Map (2)

- If multiple circuit layouts are found at the current GPS location, you can select any of the matching tracks using an OLED display.
- When a track is chosen, the start/finish line will be automatically synchronised.

1. Choose 'track selection' in the menu

2. Select track

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What's new?

Auto-Track Map (3)

- If multiple tracks are found for the current location and no OLED display is at hand the track map widget will default to:

1. The last matching track that user selected previously at that location.
2. The first matching 'combo' map (if option 1 is not possible)
3. The first track alphabetically on the list
   (if option 1 and 2 are not possible)

Combo map example →

-Note, the OLED can only store 1 previously user selected track in its memory.

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What's new?

Multi-scene support & OLED scene selection

- The VVB can store multiple scenes which can be switched with an OLED display.

1. Select "MENU"

2. Choose 'SCENE SELECTION'

3. Select desired scene

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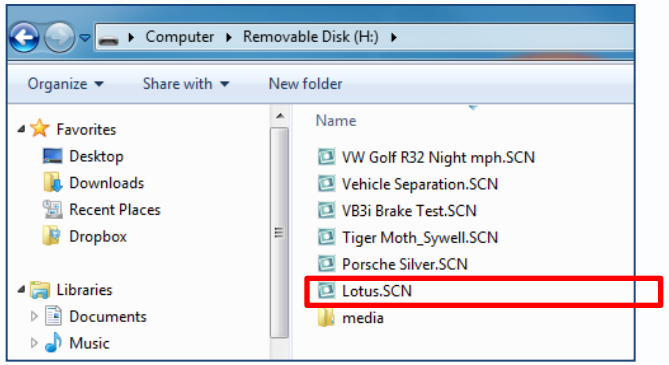
What's new?

Multi-scene support

- The scenes can be uploaded to the Video VBOX by USB or by using an SD card
- Scene selection is only possible with the OLED display. If an OLED is not available, the first scene on the list (alphabetically) is selected by default.

Note: If the software is used to download a scene it will read the active scene.

If the software is used to upload a scene, it will overwrite the active scene. Any other scenes are not affected.



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What's new?

OLED upgrades

- Video VBOX Version 3 can also upgrade OLED firmware.
- If the OLED is connected to the VVB while holding the arrow button shown below, this will upgrade the OLED firmware.
- If a separate OLED upgrade is released, the firmware file can be placed file onto the root directory of an SD card and loaded into a VVB. You can then run the upgrade in the same way.

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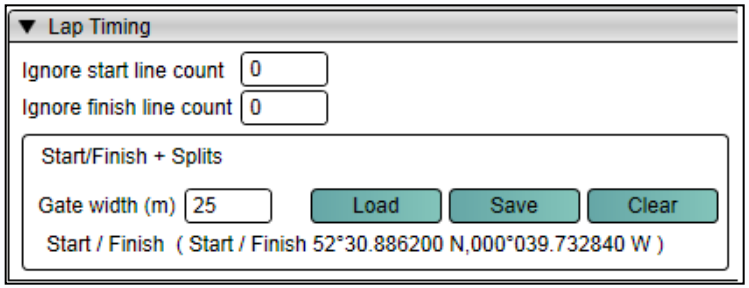
What's new?

Lap Timing

- **Sprint Type Lap Counter** – Laps can now be counted on tracks where the start line is different to the finish line.

- **Ignore Finish Line Support**
  To ignore warming laps and rolling starts in your lap timing, Version 3 allows to ignore the finish line for a set number of times.



- **Reference Laps** - You can use the OLED display to save/load a predictive lap timing preference lap to and from a media device such as an SD card. This allows a reference lap to be copied between OLED displays.

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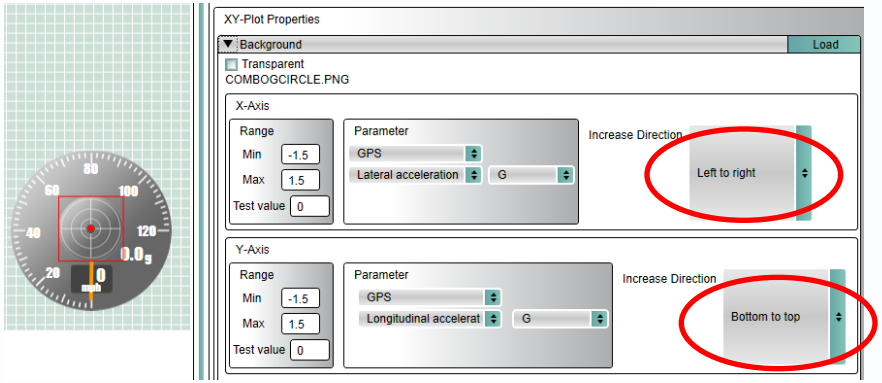
What's new?

Reverse G-Plot values

- The horizontal and vertical axes of a G-Plot can now be independently reversed to suit a users requirements.



Faster USB communication

- Version 3 performance was improved to enable faster booting and USB handling

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What's new?

Smoothing options for calculated channels

- Speed, lateral & longitudinal acceleration and radius of turn channels can now be smoothed for a clearer display. The smoothing options are set by default but can be adjusted if needed.

DGPS Mode for 20Hz engine

- The Video VBOX Pro 20Hz can has now DGPS support and can measure up to 40cm accuracy in combination with a BaseStation.
- You can get further 20cm accuracy by upgrading to a CSI engine. This will require sending in the box for upgrade.

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What are the benefits?

- Less preparation time before going on a track as the auto-track map will load a track automatically.
- Users can create scenes for different circuits or events and switch between them without connecting to a laptop.
- Lap timing can be extended to tracks that don't cross the start/finish line again, opening Video VBOX up to rallying, hill climbing and similar motorsport events.
- Faster USB communication saves you time when uploading/downloading data or adjusting the cameras.
- The increase accuracy of Video VBOX Pro 20Hz opens the market for any application in which the position of the vehicle is of importance, like drive line analysis or survey applications.

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How to upgrade?

To upgrade the Video VBOX **from Version 2 to Version 3** use the '**watershed**' upgrade file.

-Once you have loaded this watershed file, you will never need to use it again.

-The watershed file contains V3.00.30 Video VBOX firmware.

For all future upgrades use the **firmware only** file.

These files will always be available for download on the Video VBOX website.

*-Note, once **Watershed** has been installed, there is no going back to Version 2.*

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