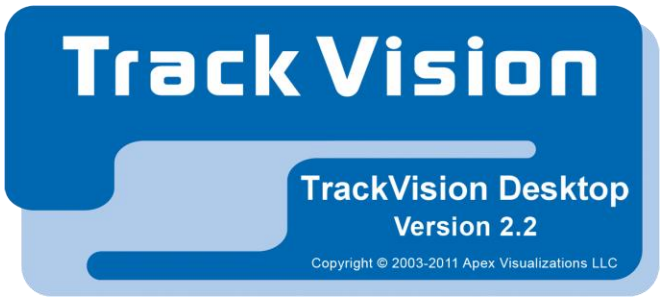


Version 2.2
Release Note
April 2011

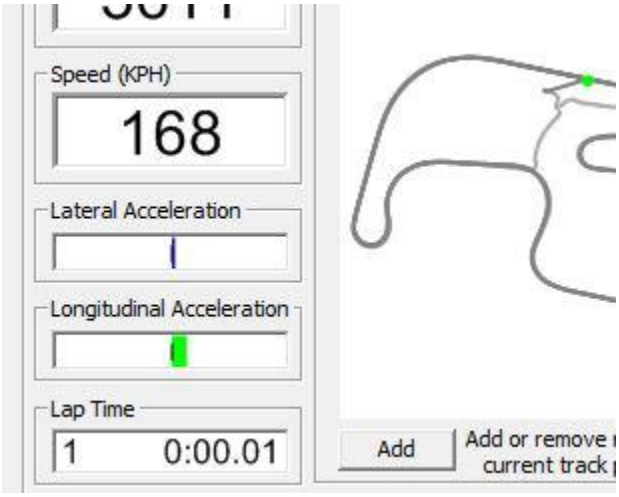
Thanks for updating to Version 2.2. We have optimized the code in several key areas and made some significant performance gains. There are a number of new features to explore, and some functional changes that make TrackVision even easier to use.

Enhanced syncing guidance

The project screen now displays lap number and lap time if your logger data includes lap timing information. This makes syncing extremely easy, and here's how:

- For loggers that record start/finish based on GPS coordinates, be sure to set the start/finish position at the track's real start/finish line
- For loggers that rely on an external beacon, place the beacon as close as possible to the track's start/finish line.
- Open your logger data in TrackVision then move the logger data to the start of the first lap.
- Open your video in TrackVision then move the video to the point where you are right on the start/finish stripe on the track.
- Click Latch to synchronize the video and data, and then Show Movie to check that the sync is accurate.

We have found that this simple method will sync within 100msec almost every time.



AiM Race Studio support now includes GPS track map

We've been on a three year crusade working with AiM to provide GPS data export from Race Studio. Race Studio V2.42.x fully supports TrackVision's track maps. AiM users finally get a track map display and GPS-derived lap timing in V2.2. We've also included a new strategy for lap and sample timing that works for all AiM sample rates. The only remaining aspect of AiM support that requires custom logger support is channel mapping. Unfortunately, the channel names in AiM data are unpredictable from one installation to the next.

If you have a custom AiM logger properties file, it will need to be updated to support the new GPS data. Email your current properties file to support@trackvision.net and we will update it for you.

If you are comfortable doing it yourself, the go to the TrackVision AiM forum for a detailed guide.

New dashboard elements
There are lots of new dashboard features in this version. Try the new DemoDisplay project to see most of the new features in action. Click File/Open or the Open icon on the menu bar.
Shaded sliders - sliders can now be shaded
Gradient sliders - sliders can now change color based on the value being displayed
Ring Gauge - the new ring gauge element adds another dimension to dashboard design.
Revised Sweeper - the sweeper is now linear, and draws value lines normal to the swept path.
Ruler - the new Ruler element is a true power tool for displays which provides calibration for display elements that is extremely simple and flexible to use. Most gauges no longer require image files to provide value markings, and sliders can be calibrated with markings provided by the ruler element. It works with sliders, all gauges, and the sweeper. Most of the updated V2.1 dashboards now use the Ruler.
Images - the new image element places a png image anywhere on the dashboard.
Revised Indicator - The indicator can now be shaded, and can display an image for on condition and an image for off condition.
Drawn shapes - geometric shapes can now be drawn and placed anywhere on the dashboard. Supported shapes are lines [line], rectangles [rect], circles [circle] and ellipses [ellipse]. These can be filled with color, or stroked to create an outline shape. You'll see these at work on most of the updated V2.2 dashboards.

The New WidgetsDemoDoc dashboard is a showcase of the new display elements. Use Sample Data Logger V2.2 and Data Sample.csv to see everything in action. Also, the new Rect Demo dashboard shows details of the new shape drawing elements in V2.2

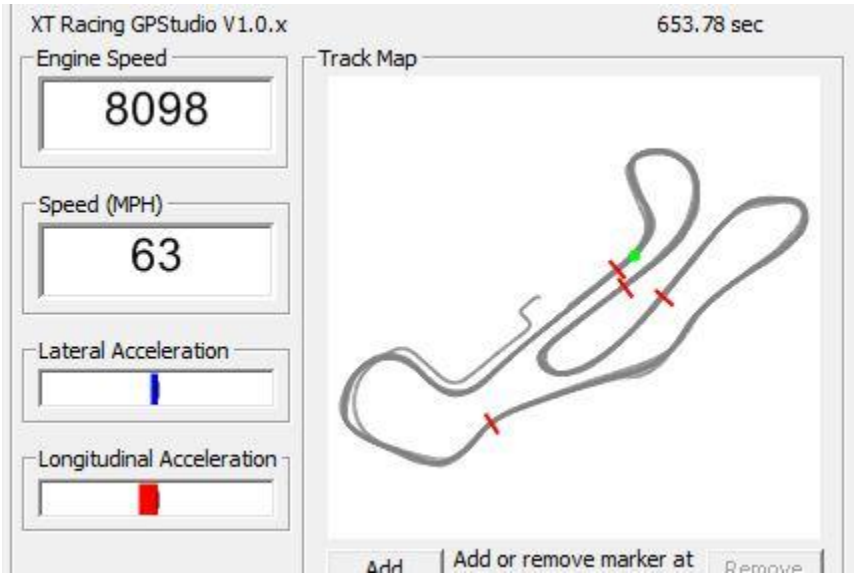
New dashboards
This pre-release includes new dashboards, and the final release will include more. The two to look at right now are MoTeC ADL and AiM MXL, AiM MXL with US or Metric temps & pressures. Starlane DaVinci, HaltechIQ3, and LaptorR1. Select them in Movie Options and take a look.

Updated dashboards
Racepak IQ3, Racepak IQ3 with US or metric temps & pressures, Sector Timing, and more

Sector Timing from logger data
We now have a standard data format for including sector times in csv data files exported by logger vendors..

The first logger to produce this format is the GPXPro from XT Racing. GPStudio V2.1.35 or later supports this features.

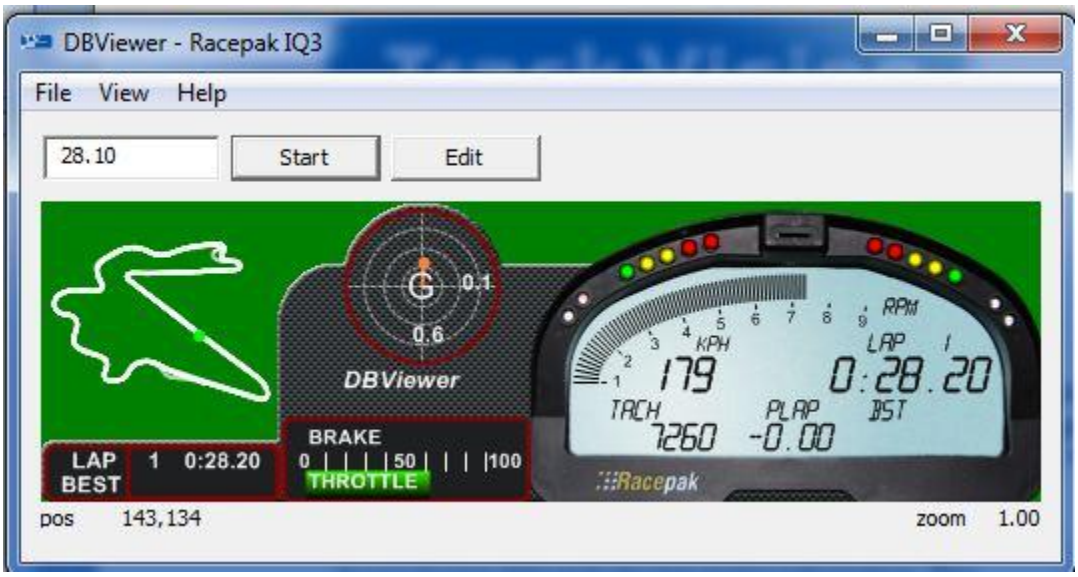
We hope to see other logger vendors adopting this format as well. The markers you see on this trackmap of Barber Motorsports Park were created directly from theGPX Pro logger data csv



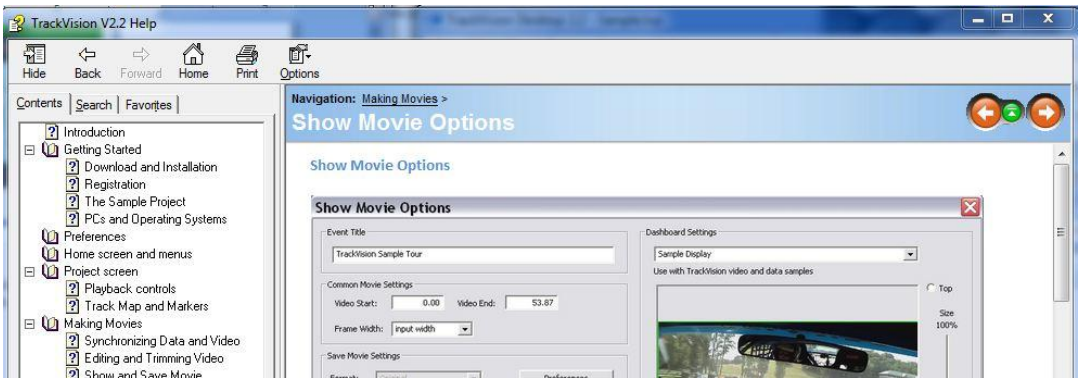
New Loggers
Most V2.1 loggers are updated to the current vendor release of the export formats and channels. Newly supported loggers in V2.2 include:
- BROS LaptorR1
- DatalinkII VideoGen for Haltech Engine Management
- Harry's Lap Timer
- Starlane DigiRace

Chroma Key is now available so you can make a green-screen video of the dashboard. Users who like to do serious video production mixing have wanted the ability to mix the dashboard as just one of many video streams. This is now as simple as clicking an option in Save Movie Preferences.

DBViewer
If you're one of the many users who enjoys customizing and creating new dashboards, the new dashboard viewer is for you. You can now run the dashboard in DBViewer, which includes zoom control, multiple background colors, calibrated cursor position and rectangle dimensioning, and more nice trick to make dashboard hacking faster and easier. The Edit button opens the current dashboard properties file. Each time you save a change to properties that change is displayed in DBViewer. It's a nice new tool.



Real Help, indexed and searchable
The Help is now delivered in the familiar Windows HTML help format. Its indexed, and its searchable. The Help buttons on each TrackVision dialog now links to the appropriate Help topic.



V2.1 bugs fixed
A number of minor V2.1 bugs have been fixed in V2.2, including:

Dashboard elements would display data values beyond the range limit of the display
All display elements now operate strictly within their defined range. Aside from correcting an obvious error, this opens up the opportunity to have range-limited displays for applications where they make sense. Examples include:
- Kart and formula car RPM displays that only display the true operating range of the engine, such as 10,000 - 15,000 RPM
- temperature and pressure displays that are limited to true operating range only

Errors in MoTeC GPS data exported from i2 and i2 Pro caused straight lines on the trackmap.
There are actually very short duration drop-outs of GPS data. Version 2.2 handles these drop-outs and produces a clean trackmap even when drop-outs are present in the data.

Racelogic Tools data causes impossibly short lap times in some circumstances
Racelogic Tools data does not contain lap timing, so Racelogic users use TrackVision's track markers to generate lap timing. In certain cases, this generated impossibly short lap times. This is corrected in Version 2.2

Video Start control was ignored when using some video formats
The video Start and End settings allow a single lap or other segment of a video to be saved as a separate video file. There were cases where the Start position was ignored when using certain video formats. This is corrected in Version 2.2

Delays when opening certain video file formats
Some video files took a long time to open in TrackVision V2.1. This was caused by delays in the process of selecting the appropriate elements to decode and display the video file. The video processing logic has been reworked to ensure that all video formats open quickly.

Dashboard images oversized/not correctly positioned
Windows Vista and Windows 7 added a setting to expand text and images for easier reading [Control Panel/Appearance and Personalization/Make it easier to read what's on your screen]. This also up-scaled TrackVision dashboard images and splash screens. V2.2 ensures correct image sizing is preserved when the magnifier option is in use.

Audio track was not correctly identified in some .mov video formats
TrackVision displayed the video correctly, but the audio was not played. Fixed in V2.2

Many thanks for your support.
The TrackVision Guys