

## Track Day apps and GPS Receivers

Track day plan. I've decided to change the track day format from a time trial to a track day as we have run recently. Three groups, car classes placed in groups based on skill and car type, green group for novices and must attend classroom training before being allowed on track. I was hoping you would also volunteer to conduct the classroom training.

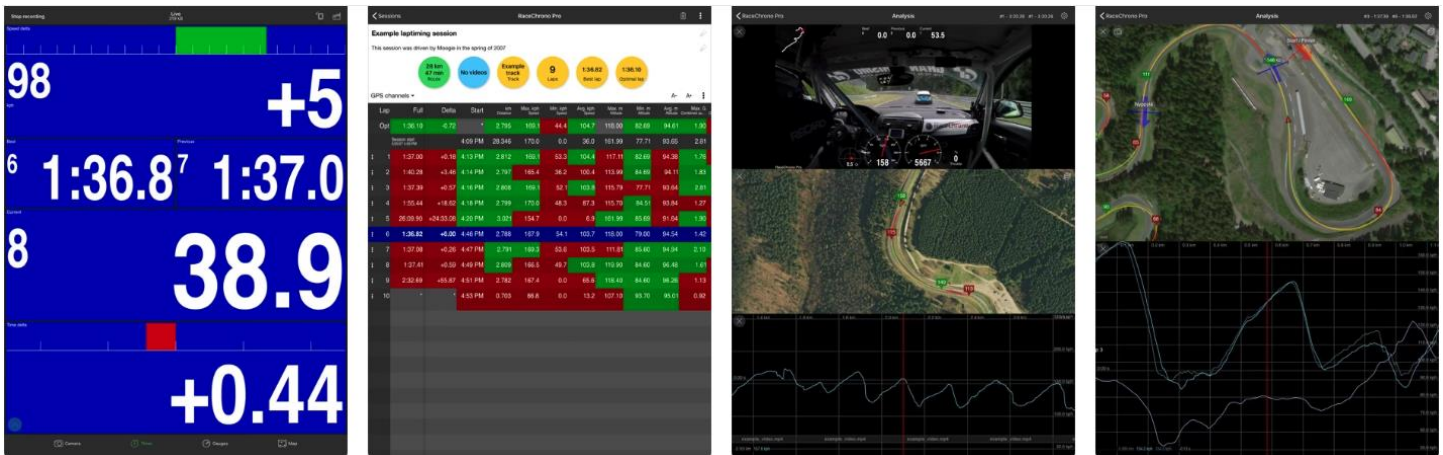
If participants want to be timed they will use the in-car app to record their best time and then relay their best lap time to a recorder in the paddock to determine who has the best class time. All participants will abide by our standard track day safety rules, limited passing in designated passing zones and allowing faster cars to pass when flagged for overpassing car. If they find they are being held up, they will be instructed to come into the grid for a stop and go so they have clear track ahead.

I will be heading to the track to test each application over the next 30 days and report back with test results

**RaceChrono Pro** is a versatile lap timer, data logging and data analysis app designed especially for use in motorsports, replacing your traditional lap timers and data loggers. The RaceChrono Pro app also enables you to record videos and overlay them with the logged data. - **\$19.99**

<https://racechrono.com>

RaceChrono apps have a strong following, currently over 100000 active users. If you look around at pits during your race or track day, chances are that you'll see someone using RaceChrono. Even many professionals, such as factory test drivers and race driving instructors, are known to use this app! No matter whether you ride motorbikes, drive go-karts or cars, on closed circuit or special stage tracks - this is the motorsports app for you.



RaceChrono Pro has following major features:

- Lap timing with sectors and optimal lap
- Track library of over 2600 pre-made race tracks
- Custom user defined circuit and point-to-point tracks
- Smoothly scrolling data analysis with synchronized graph, X/Y graph, map, video and comparison video
- Predictive lap timing and time delta graph

- Hardware accelerated video export with configurable data overlay
- Multiple camera recording and picture-in-picture video export
- Video recording using internal camera
- Linking and synchronizing video files from almost all action cameras
- Support for external GPS receivers; RaceBox Mini/Mini S, Qstarz BL-818GT/BL-1000GT/LT-8000GT, Columbus P-9 Race, Dual XGPS 150/160, VBOX Sport, Garmin GLO
- Unlimited session length, good for 24 hour races
- Session data export in .ODS (session summary for Excel), NMEA, .VBO and .CSV formats

**TrackAddict**, by HP Tuners, transforms your iPhone®, iPad®, or Android™ device into a motorsports telemetry and video system. See your lap times instantly, capture video and telemetry data, compare laps side-by-side, impress your friends with video+data overlays, and more! Quick and easy setup. - **\$8.99**

<https://racerender.com/TrackAddict/Features.html>

Road Course, Autocross, Rally, Drift, 4x4, and Drag Racing

Race Timing + Data Logging + Analysis + Video

Works Almost Anywhere! 1000+ Predefined Circuits, or Add Your Own

GPS Lap Timer & Display with Predictive Timing (Circuit mode)

Sector Split Timing & Theoretical Lap Time (Circuit mode)

High-Definition Video Recording + Data Overlay

Lap, GPS, G-Force, and OBD-II Data Logging

Driving Line Analysis, Statistics, Data Graphs, and Run / Lap Comparison

Optional Live Telemetry Streaming via Live.RaceRender.com (requires upgrade)

Also Supports External GPS and OBD-II Devices

OBD-II Live Monitor, Code Scanning / Reset, and Data Logging

Easily Exports Data and Video to RaceRender

iOS Version (iPhone & iPad)

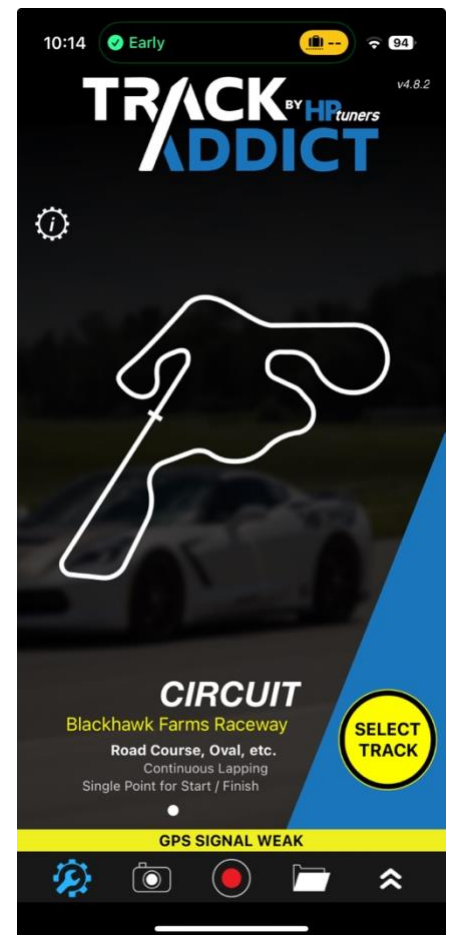
*Free Edition provides most of the features at no cost, but is limited to storing three recordings, and does not include live telemetry.*

Pro Edition removes those limitations and gives you every feature currently available from this app. It is available either as a low-cost in-app purchase, or as a separate app.

Android Version

HP Tuners has made most of this app's features available for free!

For users desiring even more advanced capabilities, the Upgrades tab offers additional features that can be purchased.



## Optimize Your GPS Reception

This is critical. Most timing and GPS data problems are from poor GPS reception.

Securely mount your device where it has a clear line-of-sight upwards to a large area of the sky.

Under the front windshield can work well. Consider a sturdy Windshield Mount.

Avoid putting it below or near any metal.

Don't put in your pocket, cup holder, or a place where it's not securely attached to the vehicle.

A compatible GPS Add-On Device is recommended for the best experience. These often improve GPS reception, and can offer better accuracy and higher sampling rates.

### **Garmin GLO 2 GPS and GLONASS Receiver for Precise Position Information on Mobile Devices, Black - \$106.90**

Connects wirelessly to your mobile device: iPad, iPhone and other Bluetooth enabled smartphones, tablets and laptops to provide precise position information

Combines GPS and GLONASS satellite receivers for precise location data with Bluetooth Wireless Technology

It has up to 13 hours of battery life to keep your position on long trips

Suitable for pilots, mariners, hiking, cycling and the automotive industry

Charge Garmin Glo 2 easily with the included USB cable or optional 12/24 V vehicle power cable



### **Dual Electronics XGPS150A Multipurpose Portable Universal Bluetooth GPS Receiver | Wide Area Augmentation System, Black - \$109.99**

Add Gps Wirelessly Via Bluetooth – You Can Greatly Strengthen Your Gps Signal On Any Device By Seamlessly Connecting Via Bluetooth In A Matter Of Seconds.

Control Method: Touch,

Application. Special Feature: Bluetooth.

Water Resistant: Yes

GPS Status Tool – The Free Downloadable App Provides Accurate Gps Coordinates, Position Update Rate Change & Works With Numerous



Devices And Operating Systems Such As Iphone, Ipad, Android, Mac, Windows & Much More

Hundreds Of Applications – Being Able To Add Accurate Gps To Your Device Will Now Allow You To Use Hundreds Of Available Apps In Any Scenario Such As Car, Marine, & Aerial Navigation, Hiking, Fitness, Social Networking And Much More

Battery Life & Included – Your Gps Receiver Has A Battery Lifespan Of 8.5 Hours Of Continuous Use & Comes With A Usb Charging Cord, An Adjustable Strap, 12-28V Car Charger And Non-Slip Pad That Will Securely Stick To Most Surfaces

### **Recommended phone holder**

Car Phone Holder VANMASS [Upgraded Strongest Suction&Clip] Cell Mount for Dashboard Windshield Vent, Truck Accessories Cradle Stand for iPhone 16 Pro Max 15 14 13 12 Android - **\$25.90**

<https://www.amazon.com/dp/B08DKHHTFX?tag=bg1-416078-20&th=1>

Larger Suction Cup, Strongest Suction - The diameter of the suction cup has been increased from 2.5in to 2.8in, and the PU adhesive has been applied to increase the suction power by 44%. Over 60 pounds of suction means even the heaviest phones are secure on bumpy roads. The suction cup is easy to remove and can be washed clean and reused (Note: NEW upgraded suction cup can be directly adsorbed to dash without pad!)

Multi-Function Phone Stand for Dashboard / Windshield / Vent】 Are you not sure which installation would best suit your vehicle? No problem the unit is extremely flexible!!! Dashboard, Windshield even air vent, all places work perfectly!



Longer & Firmer Hook Clip - Fit 99% vent - Its innovative hooked construction perfectly solves the shortcomings of the previous generation air vent clips which were prone to loosening! Maximum hook length increased by 57%, compatible with 99% Vertical / Horizontal vent. Longer build reduces obstruction of air flowing out of vent

Smoother "One-Click Release" & Perfect Protection】 - You can easily place or remove the phone with one hand. After 7 structural reliability tests, we have upgraded the internal parts of the phone holder to improve the experience of using the "One-Click Release" function, which is smoother and more reliable. We also have used a more flexible silicone arm to hold your phone more securely and prevent it from being scratched by plastic

Sturdy Hold All Phone from 4 to 7 inch - To adapt to different phones and cases, VANMASS was the first to invent adjustable side clamps and feet. We have also designed a non-slip fingerprint area on the side clamps so that you can hold your phone more easily with one hand. This mount is compatible with all mobile phones between 4 and 7 inch, compatible with iPhone 16 Pro Max 15 14 13 12 11 XR X 8 7 SE mini Samsung Galaxy S25 Ultra S24 S23 S22 S21 A53 A22 Google Pixel Xiaomi Motorola OPPO, etc