

# Installation and Use of the CL2 for Circuit





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# What's In the Box –

## Racepak Vantage CL2 - PN 20100-2004

The CL2 combines the power of mobile technology with Racepak's CL2 OBD2 EFI module, providing professional level instrumentation and data analysis, for 2008 and later OBD2 equipped vehicles.

Vantage CL2  
OBD2 Extension Cable  
GPS Antenna

### Options

OBD2 EFI Adapter

28120-2003



# Installation and Use of the CL2 Kit Requires the Following Items:



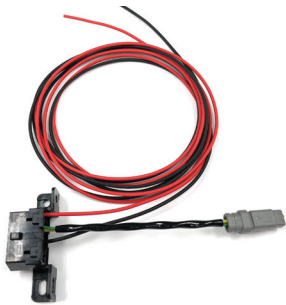
CL2 Kit



Mobile device - Can be phone or  
tablet (not included with kit)



Optional mobile device mount -  
(not included with kit)

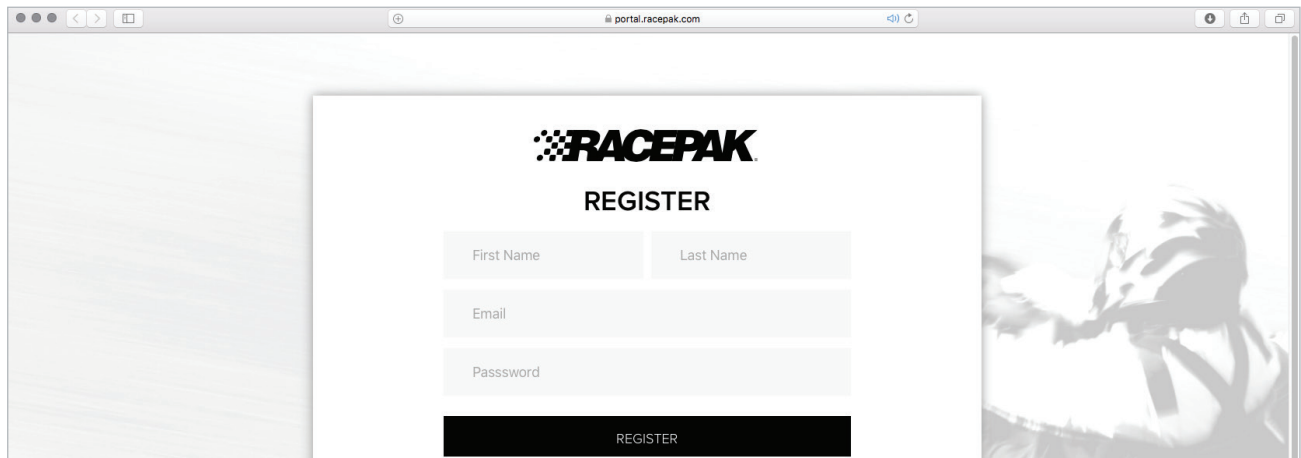


Optional OBD2 to EFI adapter  
(not included with kit)

# Before you Begin, Register your CL2

Log onto [portal.racepak.com](http://portal.racepak.com) and register your CL2 by following the step by step prompts shown online.

Registration of the CL2 provides a number of benefits, to the customer, and is necessary for use of the CL2 product. There are a number of aspects of device registration that should be reviewed, before the registration process.



## Register Device

1. **Team:** The creation of a team provides a secure location for all cloud based data, related to that particular team and CL2. This action also provides the ability to define the desired Team from the vehicle mounted mobile device running the D3 app, for cloud data uploading purpose. Teams are also presented to remote viewers, in order to select the correct team for data review.

2. **Device Serial Number:** 12 digit/letter combination found on the bottom of the CL2.

3. **Subscription:** Available on a monthly or yearly basis, providing the ability for users to remotely view data from any location, utilizing an internet connected mobile device, running the D3 app.

## My Teams

1. Provides ability to add individuals, for remote data viewing. A valid email address is required for each team member.

2. The team “owner” has exclusive access to the team, and as such is responsible for the addition or removal of team members, in order to provide access to, or remove access from, reviewing remote data.

# Step 1. Download and Install the Racepak D3 App

Racepak's exclusive D3 app turns a cellular & Bluetooth enabled smartphone into an on-board instrumentation and data analysis device, while simultaneously uploading data via cellular connection to your secure, personal cloud account. Data is stored locally on the mobile phone for instant data analysis, while live or cloud recorded data can be remotely viewed via the same D3 app installed on any web connected tablet or mobile phone.



1. Search the term Racepak D3 in the Google Play or Apple store, then download onto the mobile device which will be mounted on the vehicle.

2. Install the app per your individual mobile device instructions.



Note: Access to cloud data requires a monthly or yearly subscription fee.



Note: Cellular service is not required to utilize the D3 app on a mobile phone for on-board vehicle instrumentation and data analysis, but is necessary in order to upload data to the cloud.



Note: For suggested mobile phone, tablets and protective cases, please see [www.racepak.com](http://www.racepak.com).

## Step 2. CL2 Installation

Installation of the CL2 is a quick and simple process, as shown below.



1. Locate the vehicles OBD2 connector.



2. With vehicle power OFF, plug the CL2 into the OBD2 connector.



3. If the vehicles OBD2 connector places the CL2 in an undesirable location, the OBD2 extension cable can be utilized to relocate the CL2.



4. If the OBD2 extension cable is used, ensure the ON/OFF switch is in the ON position.



5. Connect the GPS antenna to the GPS connector on the end of the CL2.



6. Route and mount the GPS antenna on the ROOF or TOP of vehicle, with a clear view of the sky.



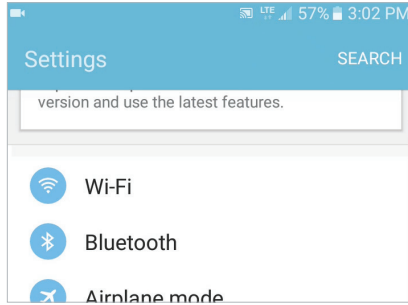
NOTE: The CL2 draws a small amount of current, when not in use. Disconnect or power off if vehicle will be inactive for a number of days.

# Step 3. Pairing Mobile Device with the CL2 - Android

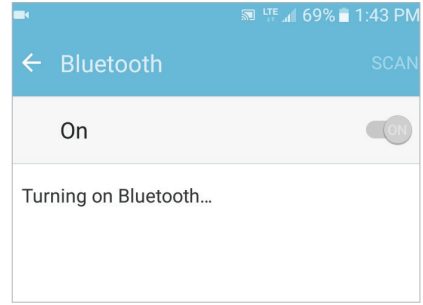
it is necessary to pair the vehicle mounted mobile device running the D3 app, with the CL2 before use.  
**Pairing occurs when the D3 app is opened on the mobile device, not from within the bluetooth settings!**



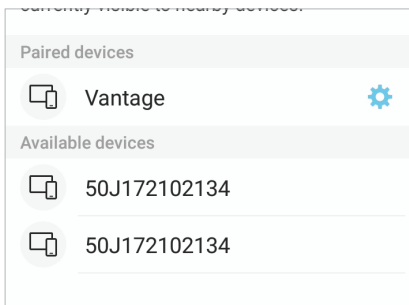
1. With vehicle power ON, the LED adjacent to the GPS antenna connector should glow BLUE.



2. Locate Settings in your mobile device, then Bluetooth. For Android, Settings are typically found in Apps on the home page.



3. Turn Bluetooth ON.



4. Vantage should now appear as a device connection option.



5. Open the D3 app.



6. TOUCH and HOLD the mobile device on the CL2.



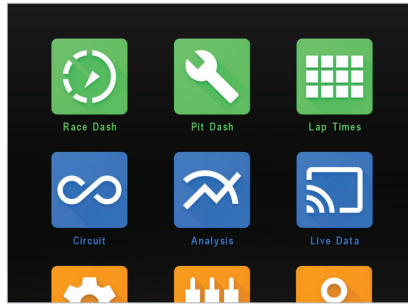
Note: Do not pair from this window!



## Step 3. Pairing Mobile Device with the CL2 - Android



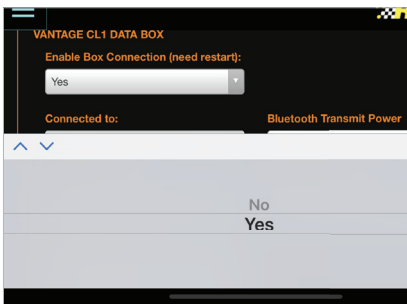
7. The LED will change from solid BLUE to blinking GREEN/BLUE, indicated phone and CL2 are paired.



8. The top three icons (Race Dash, Pit Dash and Lap Times) will now change from GRAY to GREEN. This indicates the mobile device and CL2 are now paired.



9. If unit fails to pair, press and hold the Clear Pairing button until the LED glows purple. Disconnect, then re-connect the CL2 and repeat the prior pairing steps.



10. If a tablet is to be utilized in the vehicle, a setup change in the D3 app is necessary. Tap Settings then Tap Enable Box Connection. Change from NO to YES. Restart the D3 app. At this time, the tablet can now be paired with the CL2.



Note: Disable mobile device screen lock, after installation of D3 app.



Note: If CL2 was previous paired to another mobile device, it will be necessary to CLEAR PAIRING from the CL2, before attempting to pair with new mobile device.

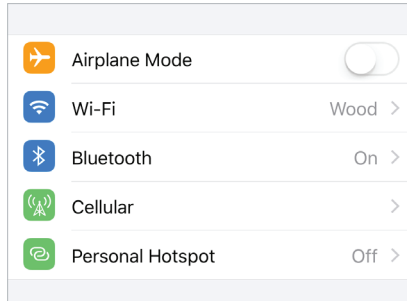
# Step 3. Pairing of the Mobile Device with the CL2 - iOS

It is necessary to pair the vehicle mounted mobile device running the D3 app, with the CL2 before use.

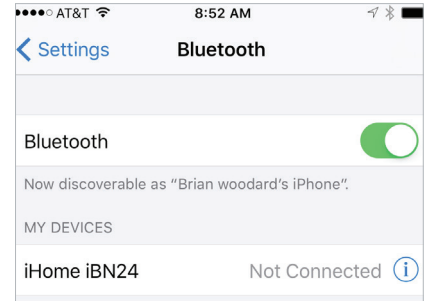
Pairing occurs when the D3 app is opened on the mobile device, not from within the bluetooth settings!



1. With vehicle power ON, the LED adjacent to the GPS antenna connector should glow BLUE.



2. Locate Settings in your mobile device, then Bluetooth. For iOS devices, Settings are typically found on the home screen.



3. Turn Bluetooth ON.



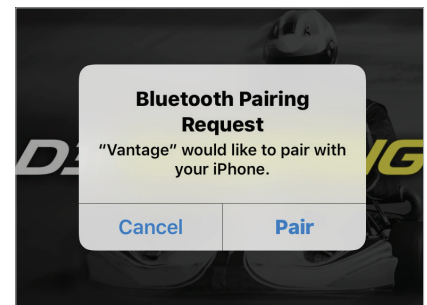
Note: Do not pair from this window!



4. Open the D3 app.



5. TOUCH and HOLD the mobile device on the CL2.

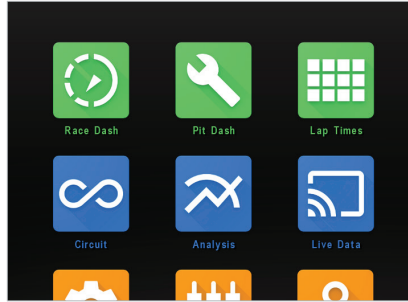


6. Wait for the Bluetooth Pairing Request message. Select Pair.

# Step 3. Pairing of the Mobile Device with the CL2 - iOS



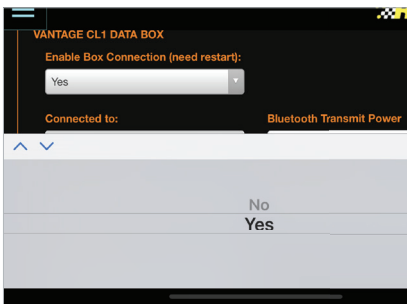
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Note: Disable mobile device screen lock, after installation of D3 app.



Note: If CL2 was previous paired to another mobile device, it will be necessary to CLEAR PAIRING from the CL2, before attempting to pair with new mobile device.

## Step 4. CL2 LED Status Patterns

A single LED, adjacent to the external GPS connector, provides the current status of the CL2, through a variety of colors and flashing sequences.



**Blue, Solid**  
Ready to Pair.



**Green/Red Flashing**  
Initiating pairing with  
mobile device.



**Green/Blue Flashing**  
1 flash per second indicates  
paired and ready for use.



**Green Flash**  
Every three second green flash  
indicates CL2 is in sleep mode,  
ready for data.



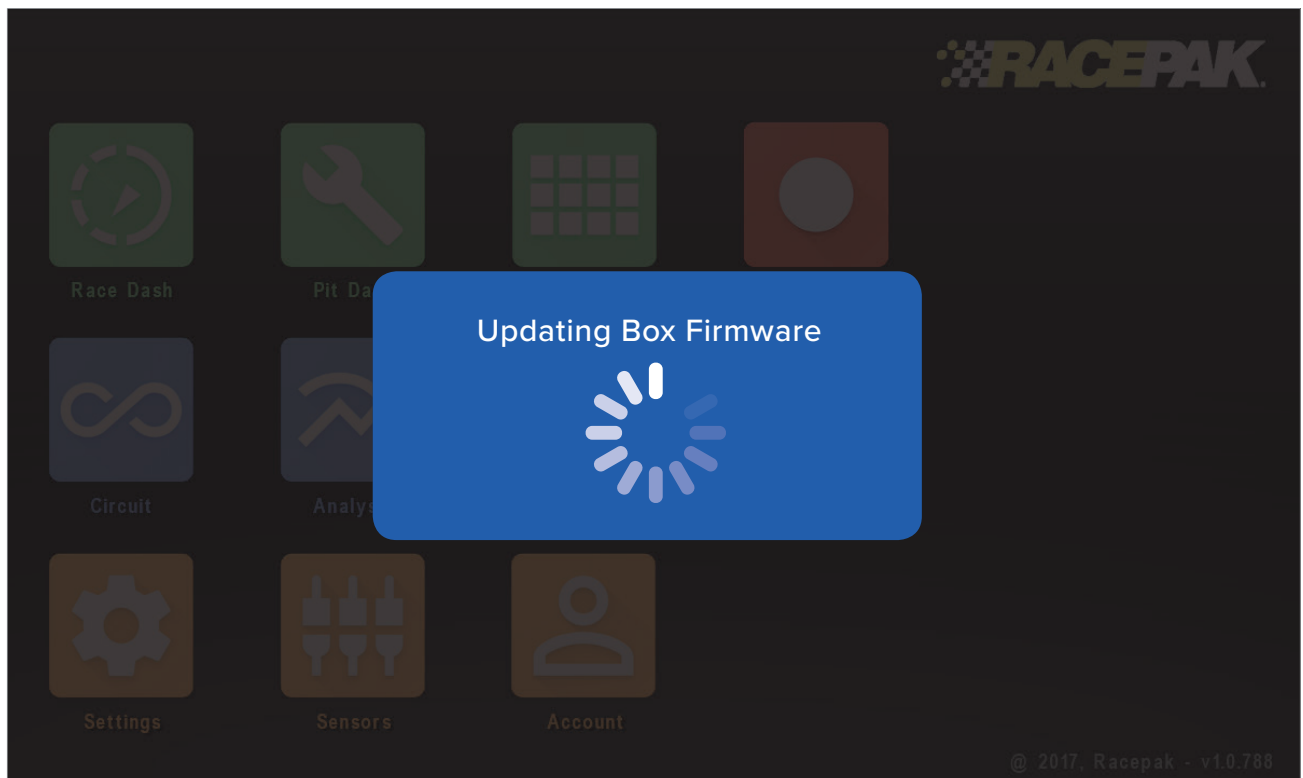
**Purple, Solid**  
Reset pairing.

## Step 5. Firmware Auto-Update Feature

The CL2 contains an automated firmware update feature, utilizing the vehicle mounted mobile device. No action is required from the user. Instead, if new CL2 firmware is available, automatic updating occurs when the CL2 is powered up and paired with the mobile device. The user is alerted to this action by a message on the mobile device display. Once updated, the display on the mobile device will return to the D3 home page indicating the CL2 is ready for use.



Note: Do not power down the CL2 or the mobile device during the update process.



## Step 6. Mounting of Mobile Device

Given the nearly unlimited combination of vehicles utilizing the CL2, Racepak recommends the selection of a rugged mount capable of securing the mobile device for any type of motorsports situation.

**Note: Phone or tablet may be utilized with the CL2.**



1. For automotive applications, Racepak offers the Ram X Grip universal holder and Ram Twist Lock Suction mount.



2. Mount the phone within view and reach of the driver, as the D3 app will be used for pit and on track instrumentation.



3. Orient the phone horizontally, with the home button on the right, as viewed from the driver position.



4. A vehicle mounted tablet may also be utilized.



NOTE: Mount the phone as close as possible to the CL2. Remember, all sensor data is transmitted via bluetooth, from the CL2 to the phone.



NOTE: The D3 app can not be viewed in Portrait orientation. The phone must be mounted with the home button on the right, as viewed from the drivers position.

## Step 7. First Time Track Use of the CL2

At this time, the CL2 is mounted on the vehicle, with the D3 app installed and paired with the CL2 and the CL2 is registered (cloud account not required) to your online account. It is now time to turn our attention to the use of the D3 app. Open the D3 app on the vehicle mounted mobile device. The icons are group by color, based on their function.



NOTE: The below icons are in view when Circuit is selected in Settings/Motorsport Type. Icons will vary depending on the Type selected.

### Green:

On-track driver information and CL2 connection status.



Pit Dash



Lap Time

### Blue:

Data analysis functions and cellular connection status.



Circuit  
(track mapping)



Analysis  
(track map and graphing)



Live Data  
and cellular  
connection status



Weather

### Orange:

Setup functions.



Log In



Settings



Sensors



Team

### Red:

Manual record function.



Manual Record

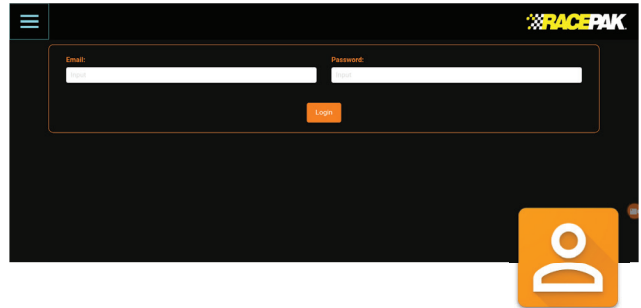
# Step 8. Set Up Prior to First Outing

There are actions that must be taken, in order to ensure the vehicle mounted mobile device is logged in and transmitting data to the correct device and team cloud account.

## Log In:

**Log In:** From the homepage of the D3 app, tap the Log In icon.

**Email and Password:** Enter the email and password created when registering your CL2.



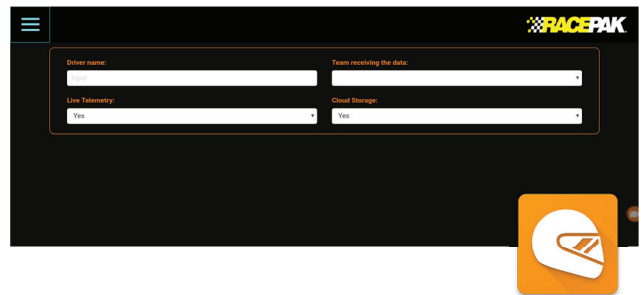
## Team:

**Driver Name:** Enter the driver name for the upcoming session. This name is part of the data file naming process, so ensure the current driver name is correct for each outing, to simplify the post run data analysis process.

**Team receiving the data:** During the CL2 registration process, a team or teams is set up, which provides a specific location to save both local data on the vehicle mounted phone and to the cloud account. Tap the down arrow to select the correct team for the upcoming outing.

**Live Telemetry:** If a cloud account is in use, tap Yes. If not, tap No.

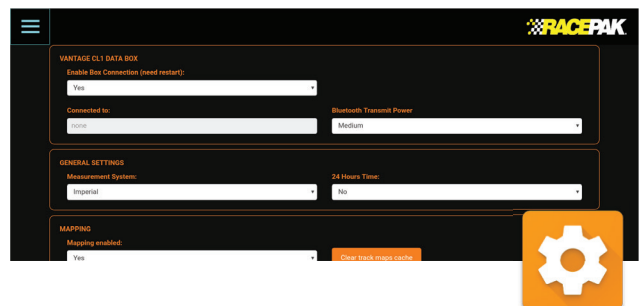
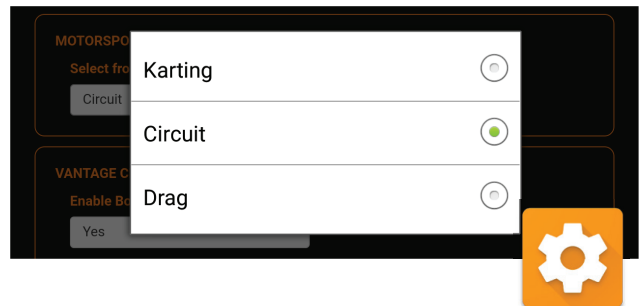
**Cloud Storage:** If a cloud account is in use, tap Yes. If not, tap No.



## Settings:

**Motorsports Type: IMPORTANT!** Tap the down arrow, then tap the correct motorsport. If the incorrect type is selected, data will not display correctly.

**Vantage CL2:** Enables communication between the vehicle mounted mobile device and the CL2. Tap Yes for the vehicle mounted and CL2 paired device. Tap No when using a mobile device for remote data analysis, as the device should not be paired with a CL2.





## Step 8. Set Up Prior to First Outing

**Connected to:** When paired with a CL2, the CL2 serial number will appear.

**Bluetooth transmit power:** Tap and set to Medium. If there are connectivity issues, a higher setting can be selected. Be aware that higher settings will decrease data bandwidth and possible data issues.

**Hardware Version:** Displays latest hardware version loaded in CL2.

**Bootloader version:** Displays latest bootloader version loaded in CL2.

**No data timeout:** Indicates the time period after the Engine RPM (or wakeup channel) stops, until the CL2 returns to sleep status.

**Max sleep time:** Indicates the maximum time the CL2 data will remain in sleep mode, without a wakeup signal, before completely shutting off.

**Measurement System:** Defines measurement values (imperial or metric) for sensor data.

**24 Hour Time:** 24 or 12 hour. Time is used in the data file naming process.

### Menu autoselect unique options:

**Send notifications:** Enables / disables new data upload notification messages sent to remote mobile devices running D3 app.

**Use chart shading:** Turns on and off shading graphed data channel traces.

**Display min/max labels:** Turn off or on minimum and maximum values on data graph.

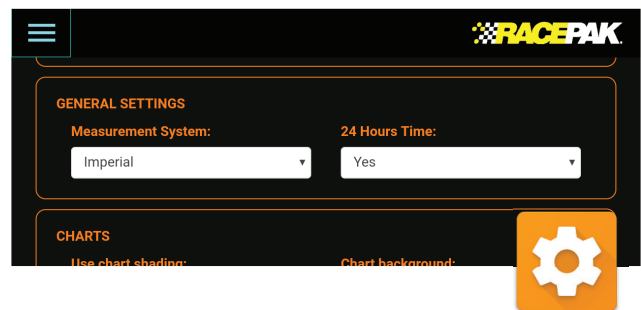
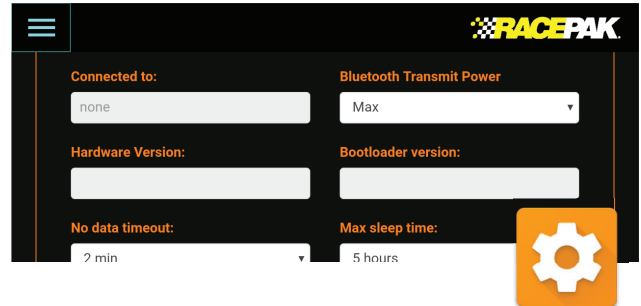
**Colors on data overlays:** Turns on or off automated data graph trace coloring.

**Chart Background:** Toggles data graph area from black to white.

**Mapping – Mapping Enabled:** Tap Yes to enable track mapping.

**Finish-line extends (unknown tracks):** Changes projected finish line distance in the event track is wider than current setting, resulting in no lap time data.

**Min/Max settings:** Defines numeric display colors for each defined channel, when viewed on Live Data page

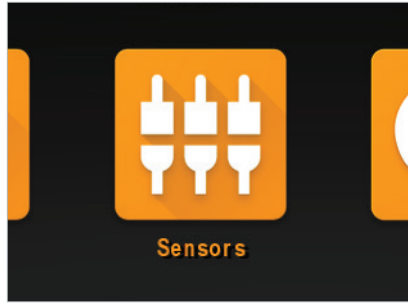


# Step 9. Set Up Prior to First Outing - OBD2

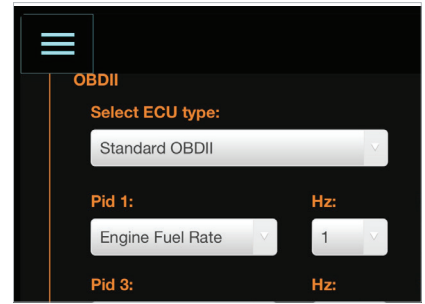
Up to 10 OBD2 inputs are available for viewing / recording. NOTE: OBD2 splitter cable cannot be used with the CL2.



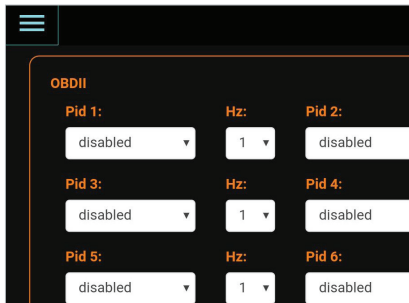
1. Connect the CL2 to the vehicles OBD2 port



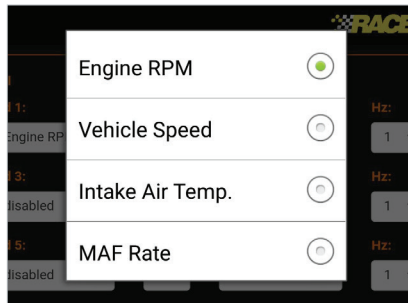
2. With the phone paired to the CL2 via Bluetooth, tap the Sensors icon on the D3 home page.



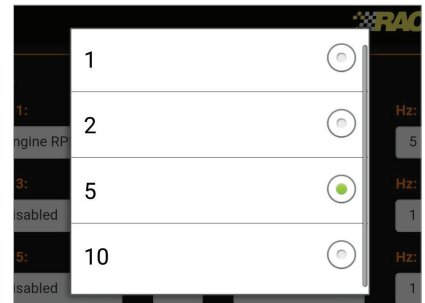
3. Under OBDII/Select ECU type, tap the down arrow and Standard OBD2.



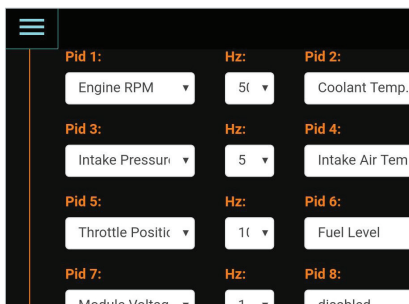
4. Available OBD2 channels are year, make and model dependent. Up to 10 channels may be selected.



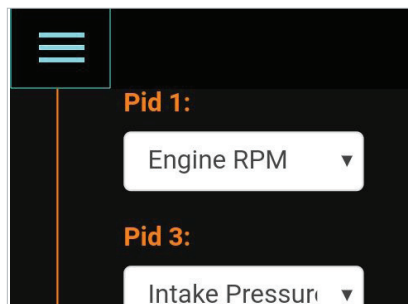
5. Using the down button beside of Pid 1, select the desired OBD2 sensor input channel.



6. Next, tap the Down arrow beside the Hz input area, and select the desired sample rate per second, for the channel. Note: Available sample rates vary, based on selected channel. Do not sample each channel at the maximum rate.



7. Repeat the process for additional OBD2 inputs.



8. Upon completing all programming functions, tap the Home page icon in the upper left corner of the screen.



Note: Do not use OBD2 splitter with CL2.

Note: Engine RPM channel must be selected, in order to wake up CL2 for use.

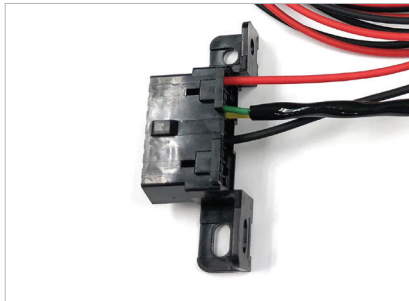
# Step 10. Set Up Prior to First Outing – EFI Data Channels

The CL2 interfaces with the following aftermarket ECU's, providing up to 10 EFI sensor inputs.

AEM	Fuel Tech 300 v1	Fuel Tech 400 v1	Holley Dominator
Fuel Tech 250 v1	Fuel Tech 600 v2	Haltech v2 Protocol	Megasquirt
Fuel Tech 500 v2	Fuel Tech 350 v1	Fast XFI	
Motec Set 3	Haltech v1 Protocol	Fuel Tech 500 v1	



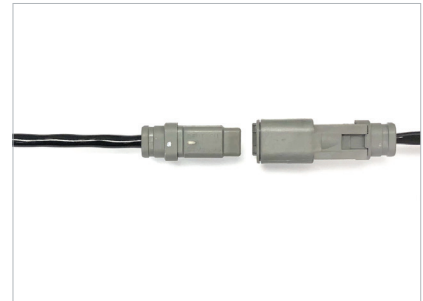
Note: Optional Racepak OBD2 to EFI adapter PN: 28120-2002 is required.  
*In addition to OBD2 to EFI adapter, a second EFI interface cable is required, part number:*  
 FuelTech: PN 280-CA-EFIXFI  
 Holley: PN 280-CA-EFIHOL  
 FAST XFI: PN 280-CA-EFIXFI  
 All Others: 280-CA-EFIXFI  
 Note: OBD2 and EFI inputs can not both be utilized at the same time.



1. Determine mounting location of OBD2 to EFI adapter. Will be dictated by overall length of Interface Cable.



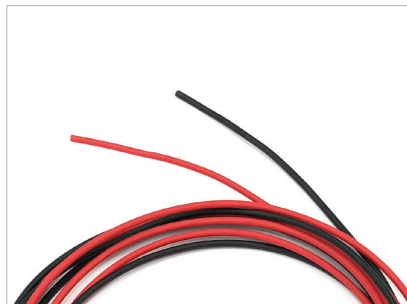
2. Connect the OBD2 to EFI adapter to the CL2.



3. Connect the interface cable to the OBD2 EFI adapter.

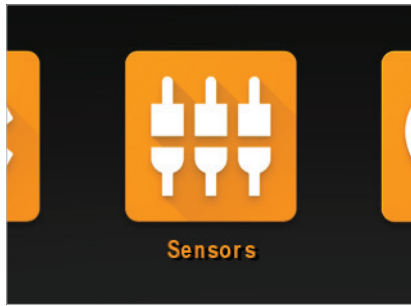


4. Connect the opposite end of the interface cable to the ECU. Connector varies based on ECU.

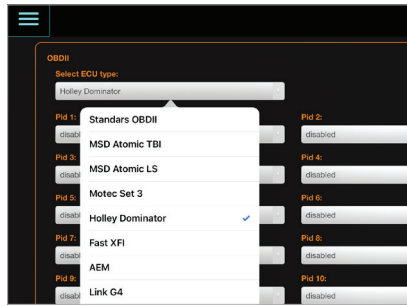


5. Connect black wire to chassis ground. Connect red wire to switched 12V vehicle power - Recommended to use same power source as EFI unit.

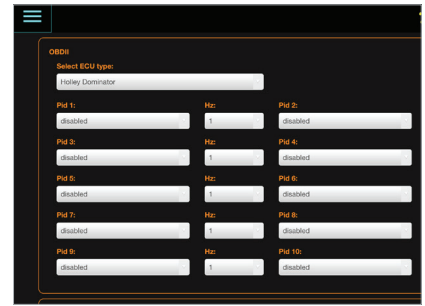
# Step 10. Set Up Prior to First Outing – EFI Data Channels



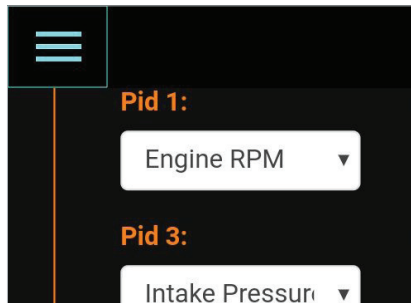
4. With the mobile device paired to the CL2 via Bluetooth, tap the sensors icon on the D3 app homepage.



5. Tap the down button under Select ECU Type, tap and select the desired ECU.



6. Up to 10 ECU channels and desired sample rate (Hz) can now be programmed, one at a time, using the down arrow under each PID input area.



7. Upon completing all programming functions, tap the Home page icon in the upper left corner of the screen.

# Step 11. Pit & On Track Driver Information

Through the use of Engine RPM and GPS speed, the CL2 and D3 app detects and automates the display of driver information based on the drivers needs, at that time.

## Pit Dash:

Upon starting of the engine, the Pit Dash will automatically display or can be manually accessed from the home page of the D3 app. This allows the driver or team to quickly verify the real time values and status of the CL2 and mobile device.

**BOX:** Indicates connection status between CL2 and mobile device.

**RED** – No connection.

**GREEN** – CL2 and mobile device are paired.

**GPS:** Indicates GPS status of CL2.

**RED** – No CL2 GPS connection (check antenna connection).

**GREEN** – GPS satellites are acquired, with number and strength noticed in the GPS Satellites box.

**Cloud:** Indicates connection between the vehicle mounted mobile device and user's cloud account.

**RED** – No connection

**GREEN** – Mobile device connected to cloud account via cellular service.

**Engine Coolant Temp:** Indicates real time values of water temp via OBD2 or EFI.

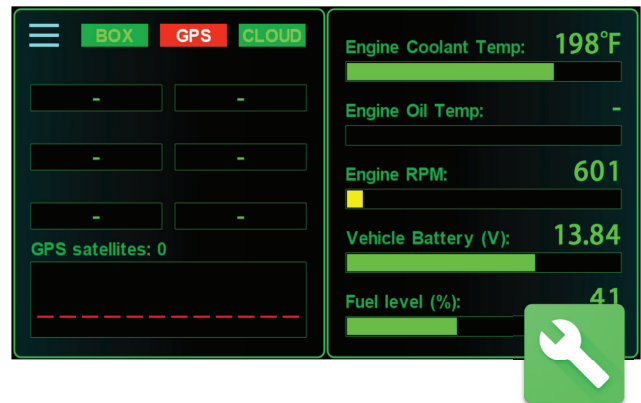
**Note:** Below inputs must first be programmed as outlined in previous section, in order to display data.

**Engine Oil Temp:** Indicates real time value of oil temperature via OBD2 or EFI. (Based on Imperial or Metric settings).

**Engine RPM:** Displays real time value of Engine RPM.

**Vehicle Battery:** Indicates battery status of the vehicle to which the CL2 is connected.

**Fuel Level :** Current fuel level of vehicle



## Step 11. Pit & On Track Driver Information



Note: On Track dash page will vary, depending upon Motorsport Type selected in Settings on the D3 app.

### Race Dash page:

Now that all functions are verified, the vehicle can now proceed to the track. When the CL2 detects both Engine RPM and GPS speed above 11 MPH, the Race Dash will automatically display or can be manually accessed from the home page of the D3 app.

**Lap Number:** Lap number for the current session.

**Current Lap (Predictive Lap Time):** The values displayed represent both the current lap of the outing and the difference between the fastest lap of the outing and the current lap, updated constantly, for the driver.

**GREEN:** Indicates the driver is FASTER than the current fastest lap of the outing, displayed in 00:00 Minutes / Seconds/ Tenths.

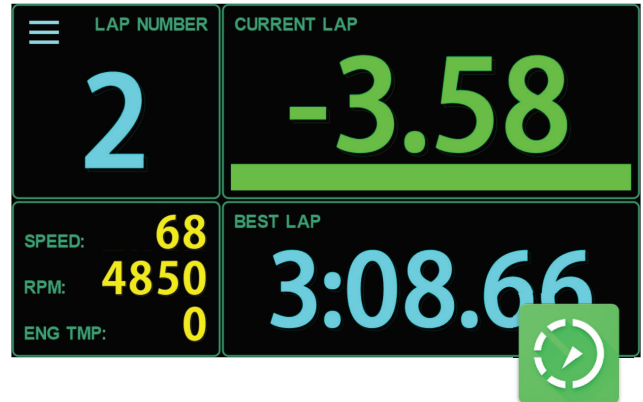
**RED:** Indicates the driver is SLOWER than the current fastest lap of the outing, displayed in 00:00 Minutes / Seconds/ Tenths.

**BEST LAP:** Indicates the quickest lap of the current outing.

**SPEED:** Current GPS speed.

**RPM:** Current Engine RPM.

**ENG TMP:** Engine Water Temp obtain from OBD2.



# Step 11. Pit & On Track Driver Information

## Lap Times:

When GPS speed drops to 0 for 30 seconds, or no Engine RPM detected for 20 seconds, all lap times from the current outing will automatically be displayed to the driver, overriding the current page in view on the dash, or accessed from the home page of the D3 app.

**Time:** Lap time(s) from the current outing.

**RPM Max and RPM Aver:** Maximum and average Engine RPM from the current outing.

**Temp Max and Temp Aver:** Maximum and average temperature of sensor connected to the Temperature / RPM harness, from the current outing.

☰	Time	RPM max	RPM aver.	Temp max	Temp aver.
1	-----	10605	7821	131	119
2	1:15.843	11271	6161	144	139
3	0:58.210	10662	8115	153	147
4	0:56.467	11463	8408	160	155
5	0:57.126	11440	8255	165	162
6	0:56.352	11320	8422	170	166
7	0:56.381	11365	8379	170	



## Step 12. Remote Viewing of Live Data

The Racepak D3 App provides both real time, on-track data analysis capabilities, along with post outing data analysis capabilities, utilizing three icons located on the homepage of the D3 app.

### Live Data:

The Live Data icon provides remote access to live, on track data through the use of an internet connected mobile device running the Racepak D3, and a current CL2 cloud account. The following is required to utilize Live Data:

1. D3 app installed on internet connected mobile device (that will be used for remote viewing) and logged into the team that is currently streaming data.
2. Vehicle mounted, cellular connected mobile device running the D3 app and paired with CL2.
3. Vehicle exceeding 11 mph/5ms and active Engine RPM input, OR use of Red Manual record button on home screen of D3 app.



**Verification of the remote mobile device connection to the CL2 cloud account is verified by the color of the Live Data icon.**

1. Gray indicates no connection to the cloud account.
2. Blue indicates a valid Email and Password was entered using the Log In feature, and the mobile device is ready to receive cloud data.



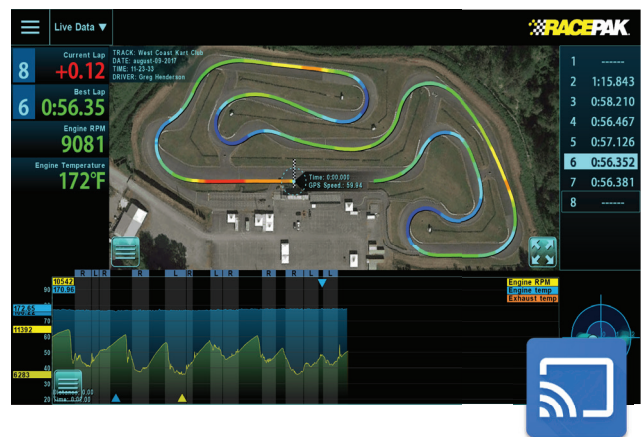
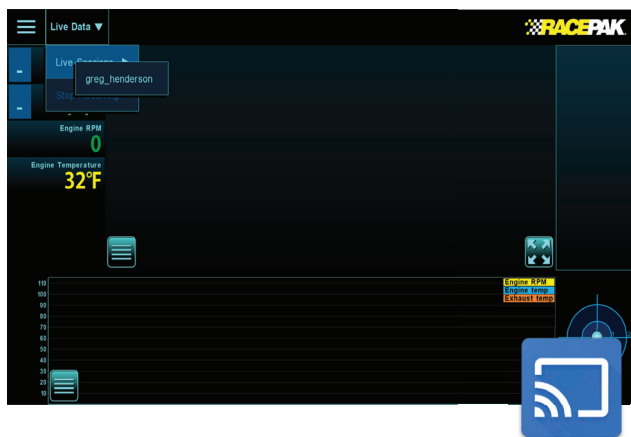
Note: A mobile device connected to the internet will display a GRAY Live Data icon, if not connected to a valid CL2 account, using the Login icon on the home page.



## Step 12. Remote Viewing of Live Data

### Optional Racepak Cloud Service

If an optional Racepak cloud service account was activated during the registration of the CL2, and a cellular enabled mobile device is in use on the vehicle, all on track data is automatically streamed real time to the user's account. Live data can be viewed on an internet connected Android or IOS device, running the D3 app and logged in with a valid Email and Password, as provided by the owner of the CL2 and cloud account.



1. Open, the Racepak D3 app, then tap Log in. Log in using the Account information established during registration of the CL2, or as provided by the owner of a CL2.

2. Return to the home page. The Live Data icon will change from GRAY to BLUE, indicating both correct account information and internet connection.

3. If the Live Data icon remains GRAY, verify all account information is correct and the mobile device is connected to the internet.

4. Next, tap the Live Data, then Live Sessions.

5. If the vehicle is on the track, you will be presented with the driver Name, Track and Session. Session files are identified by time of day. Select the desired file or files.

6. If the vehicle is not currently on the track, no driver name will be presented.

7. At this time, live data will automatically stream with all sensor data, along with current position of the vehicle available for viewing.

8. To stop the live stream, select Live Data, Stop Receiving.

9. Data can be started and stopped as long as the vehicle remains on the track.

10. See Analysis section of this manual for use of all analysis features.

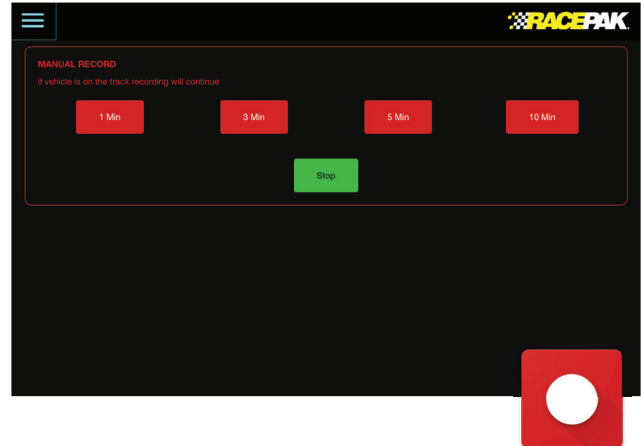
# Step 12. Remote Viewing of Live Data

## Optional Racepak Cloud Service

In addition to viewing live timing data, remote viewers may also view data in a graphical / map format



1. Tap the three bars in the upper left corner of the Live Sessions page to return to the home screen.
2. Tap Analysis. The current live session will now appear in graphical format.
3. To view track map data full screen, simply tap the expanding arrows in the lower right corner of the open page, or return to the Home page and tap the Circuit icon.
4. See Circuit section of this manual, for use of all Circuit features.



### Manual Data Streaming

For pit, dyno or other situations requiring streaming of data to the users optional cloud account, a Manual Record feature is available on the home page of the D3 app icon.

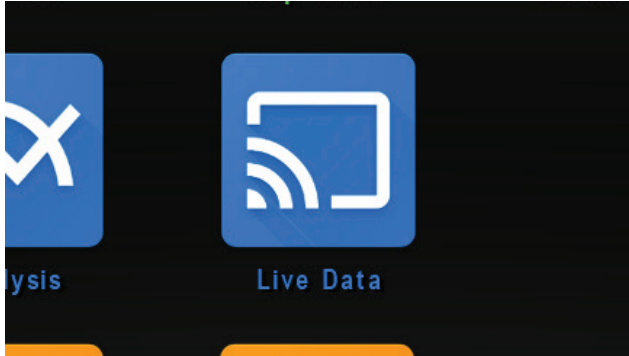
1. Using the mobile device mounted in the vehicle and paired with the CL2: Tap Manual Record from the D3 app home page.
2. Tap the desired time to upload data to the cloud.
3. Live data can now be viewed on a remote, internet connected device running the D3 app.
4. To stop, select the Manual Record icon again, from the home page of the D3 app.

Note: Always stop manual recording, before entering the track, for a live session outing.

### Automatic Data Streaming

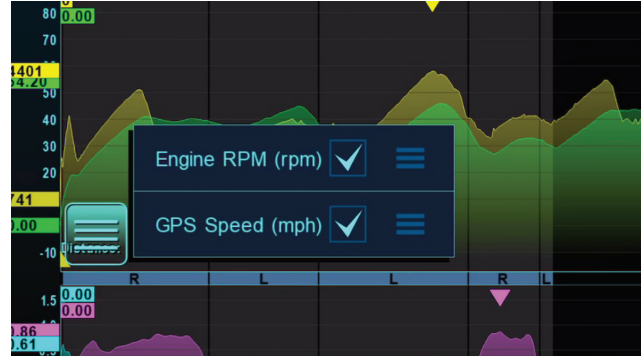
The streaming of data to the users optional cloud account is automatically initiated when the vehicle exceeds 11 mph along with detection of a working tach signal, by the CL2.

# Step 13. Data Analysis Features



**To view data:**

1. Tap the Blue Live Data icon to open the Live Data analysis page.
2. Tap Live Data / Live Session / Driver Name / Track Name. At this point, live data created prior to connection, during the current on track session, will load until the current data is in sync with the current position of the vehicle, on the track.



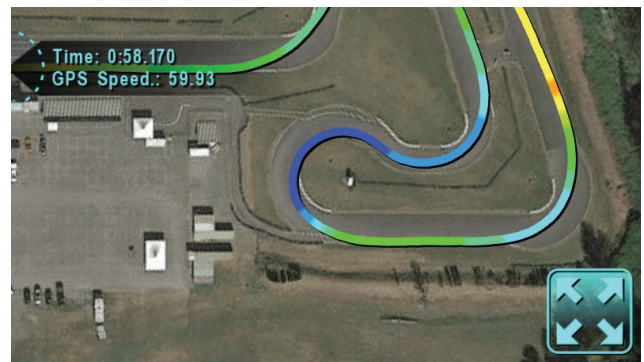
**To change data in graph area:**

1. Tap the four bar icon in the lower left corner of the graph area.
2. To add or remove data channels, tap any Channel Selection box to the right of the data channel.
3. To change data channel graph colors: Tap the three bar icon next to the Channel Selection box, then tap the desired color.



**Track Map Data:**

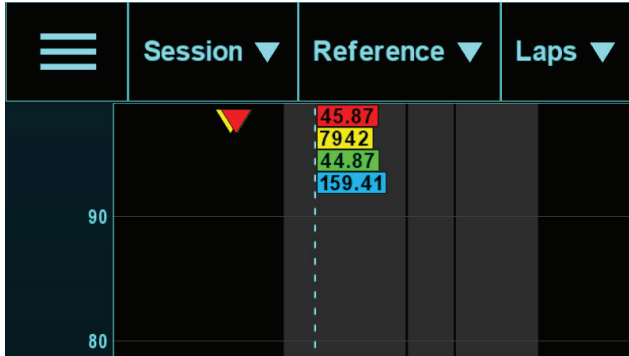
1. Tap the Four Bar icon in the lower left corner of the track map area.
2. To add or remove data channels, tap any Channel Selection box to the right of the data channel.
3. To change data channel graph colors: Tap the three bar icon next to the Channel Selection box, then tap the desired color.
4. To add Min Max values, select Min or Max or both, beside the desired White Outline data channel box.



**Full Page Track Map:**

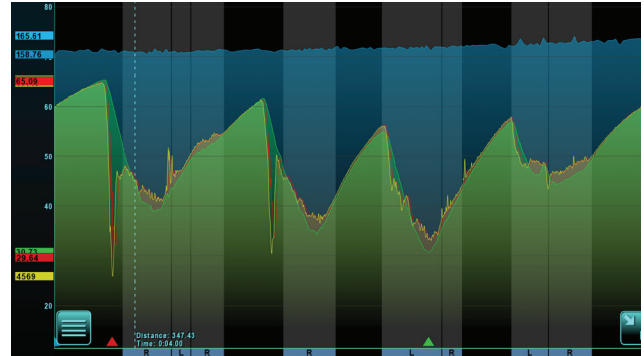
1. Tap the Four Arrow icon in the lower right corner of the track map window.
2. To return, tap the Two Arrow icon in the lower right corner of the track map window.

# Step 13. Data Analysis Features



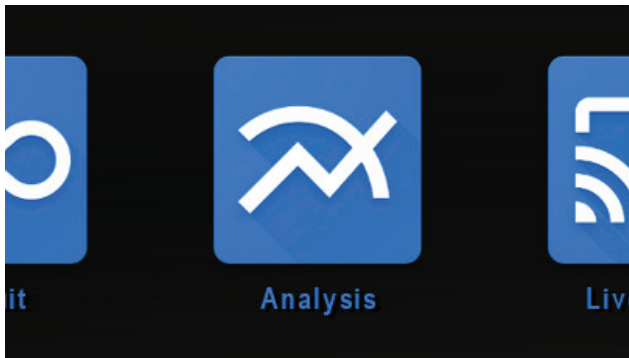
**Return to D3 Home Page:**

1. Tap the three bar icon in the upper left corner of the Live Data page.



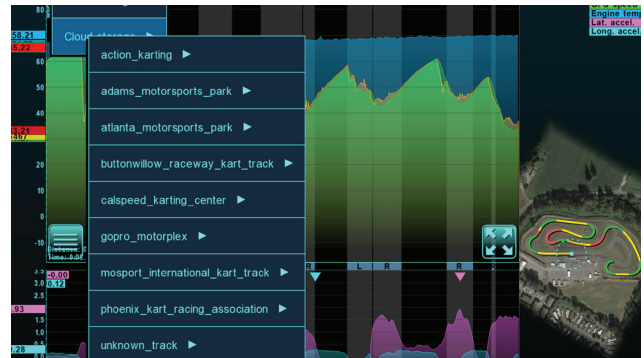
**Zoom**

1. Touch, hold and pinch graph area with two fingers.



**Analysis:**

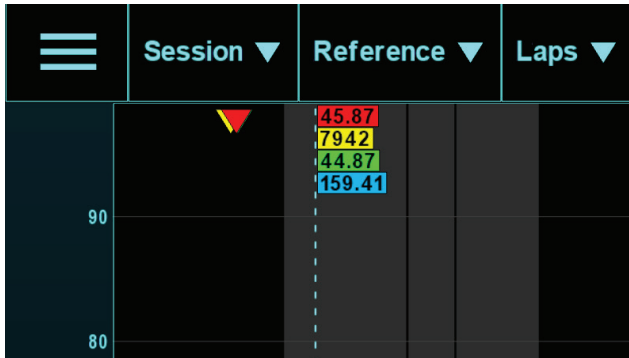
The Analysis page of the D3 app features similar functions of the Live Data page, but with the ability to view live data or recorded data from either a cloud account or data saved to the actual mobile device. To begin, tap the Analysis icon from the homepage of the D3 app.



**To Open a Data File:**

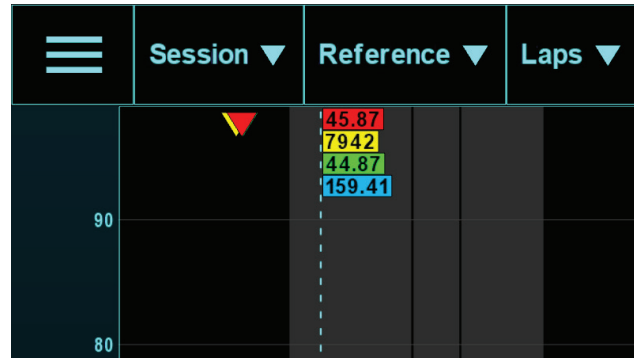
1. Tap Session, then select either either Local or Cloud storage, then Team/AutoX/Driver/Date and Time of the desired data file.

# Step 13. Data Analysis Features



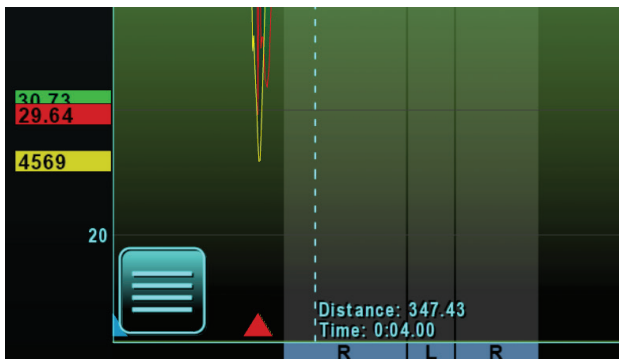
**Data Overlay Multiple Laps:**

1. Select Laps.
2. To add laps, tap the desired Solid White box for the lap(s).
3. To remove laps, tap the desired White Outline box for the lap(s).



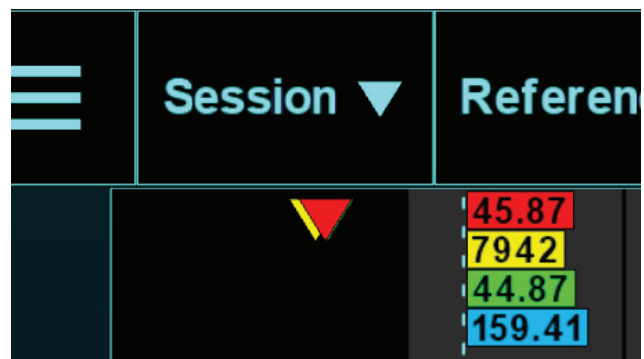
**Current Outing Laps vs Previous Outing Laps:**

1. Select Reference, then the desired Track, Driver, Date and Time data file.
2. Select Laps, then Reference. This actions automatically loads data the fastest lap from the selected previous session, over the currently active data.
3. To remove a Datum lap, simple select Laps and tap the Reference box, again.



**Change graphed data in upper or lower graph area:**

1. Tap the four bar icon in the lower left corner of the graph area.
2. To add or remove data channels, Tap any Channel Selection box to the right of the data channel.
3. To change data channel graph colors: Tap the three bar icon next to the Channel Selection box, then tap the desired color.



**Min Max Values:**

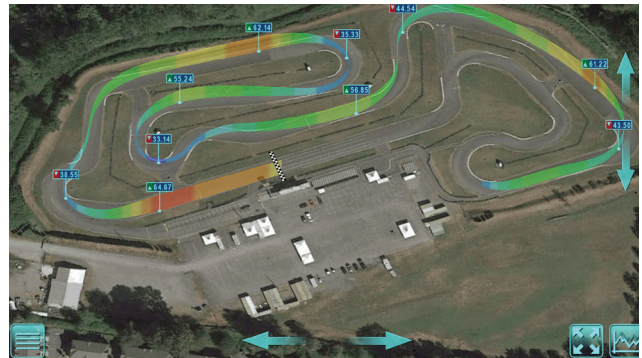
1. Minimum and maximum data values for graphed channels are noted by colored arrows in the top and bottom portion of the graph area.
2. Maximum values are noted at the top of the graph area, with the arrow color corresponding with the color of the graphed data channel.

# Step 13. Data Analysis Features



**Full Page Data – Single Graph:**

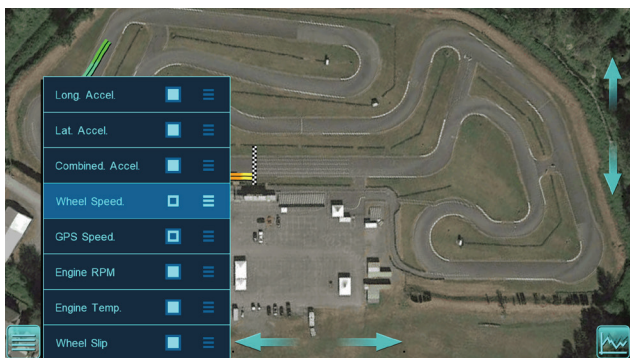
1. Tap the Right arrow icon located beneath the track map.
2. To return to the previous page, tap the Track Map icon located in the lower right corner.



**Circuit:**

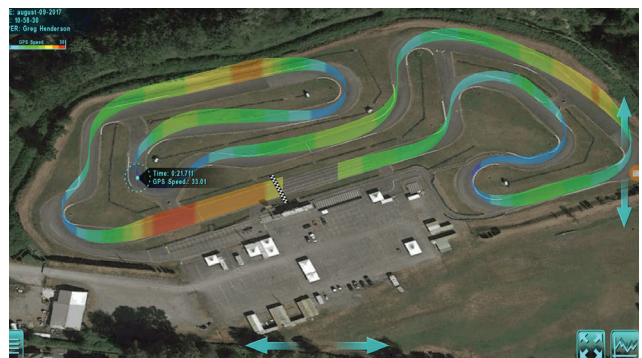
The Circuit analysis page of the D3 app provide the ability to view information in a decidedly different, but very intuitive manner, compared to graphed data channels.

1. Select the Circuit icon.
2. Tap Session, then select either either Local or Cloud storage, then Track / Driver Name / Date / Time of the desired data file.



**Adding and Removing Data to the Circuit Page:**

1. Select the four bar icon in the lower left corner of the track map.
2. Select any Solid White box to enable or disable a channel on the track map.



**3D Circuit Map View Controls:**

1. Elevation view: Using a single finger, touch, hold and slide UP on the up arrow located on the right side of the Circuit map. The same action can be performed on the down arrows.
2. Rotate: To rotate an elevated map, touch, holds and slide the left arrow left, found at the bottom of the Circuit map page.

## Step 13. Data Analysis Features



**Return to Analysis Page:**

1. Tap the four arrow icon in the lower right corner of the Circuit page.

## Step 14. On Track Alerts

For customers utilizing Racepak's optional cloud account services, alerts are automatically sent to all remote devices, which are logged into a valid user account, any time the CL2 linked to that account begins streaming data to the cloud account. To turn off alerts

### Android:

1. Apps / Settings (from the home screen of the device)
2. Notifications
3. Locate the Racepak D3 app and slide the button to the left.

### iOS:

1. Settings (from the home screen of the device)
2. Notifications
3. Locate the Racepak D3 App and tap.
4. Slide the Allow Notifications button to the left.

