



DASH2 PRO - Powerful and ultra configurable display with powerful processing. Specify a complete system in one compact component with optional onboard GPS data logging and control outputs

IP64 sealed (rain-proof), die-cast aluminium enclosure with rubber sealing details.

Up to 8 analogue (4 as standard) and 1 frequency input, with dedicated RPM inputs. Connect sensors such as: Wheel speed, temperatures and pressures etc.



Completely new display, exclusive to DASH2 PRO - meaning lap/sector timing features can be displayed in the bottom display segments.



Add CAN receive option or ECU interface to take sensor data directly from vehicle ECU

M4 threaded mounting holes on rear of case.

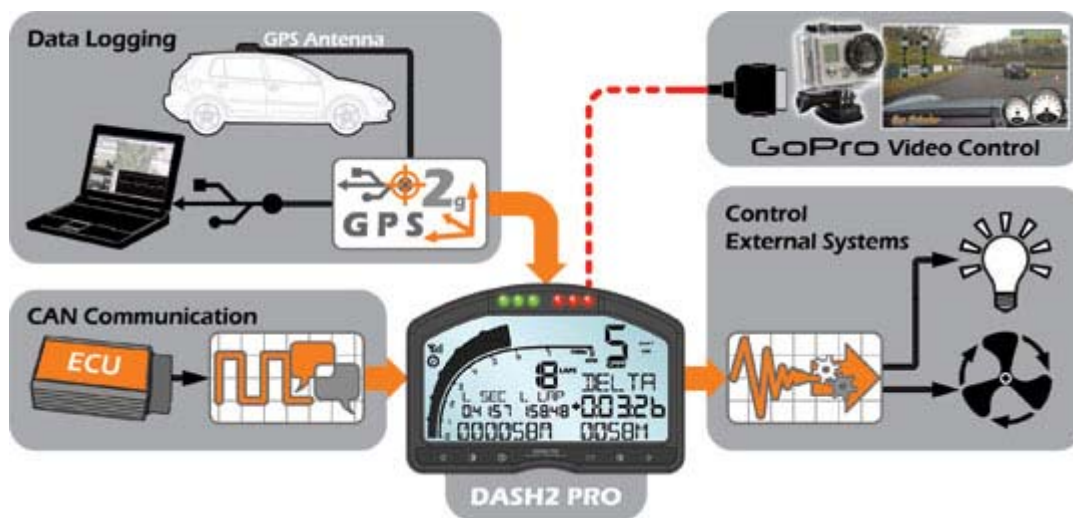
- Advanced Options Bundle - Advanced computer functions, Alarms, Shiftlights and more...



- Vehicle Fitting Kits Available



The **DASH2 PRO** is a complete and ultra configurable display system using powerful data processing and a range of enhancement options. The enhancement options available customise the DASH2 PRO to your application (including built in GPS data logging, CAN communication options to decode ECU or CAN bus data, additional analogue inputs and output controller options) so you can have a complete road/race ready system within one ultra compact die-cast aluminium case. The DASH2 PRO shares the same compact case as the standard DASH2 but that is where the similarity ends, the DASH2 PRO features an all new display and internals.



What does the **DASH2 PRO** do?

The DASH2 PRO is a vehicle display system that has everything required to pass an IVA test (road legal) so you can replace your entire vehicle dashboard with the DASH2 PRO unit. The unit displays sensor data in the user's preferred units, and warnings can also be set for critical channels. The unit has 5 screens of data which can be scrolled through using buttons (not supplied). The unit is configured using PC software via USB cable connection. Displayed data, units, alarms, shiftlights, RPM scale etc is all configurable to the user's exact requirements. Lap and sector times can be displayed as GPS lap/sector markers are passed (requires GPS data logging option or connection to one of our GPS data loggers).

What are the standard features of the DASH2 PRO?

The standard features of the DASH2 PRO are the same as the standard DASH2. Any enhancement options will be in addition to these standard features.

- Road legal dashboard, everything you need for an MOT and IVA test including warning lights.
- Transflective LCD display with back light, clearly visible under any lighting conditions.
- Integrated high brightness shiftlights.
- Fully configurable and suitable for any engine installation.
- Water resistant - suitable for open top and motorcycle applications.
- Gear position indicator calculated or via gear box sensor.
- Set different shiftlight brightness for day and night.
- Monitor your engine with high/low alarms.
- 5 user defined screens to display the information you want.
- Can be set up for MPH/miles or KPH/km.
- Configurable peak RPM feature and RPM scale.

Does the DASH2 PRO have any additional features over the standard DASH2?

Unlike the standard DASH2, the DASH2 PRO has the following features: -

- The LCD contrast and backlight brightness can be adjusted to your preference, in both day and night modes.
- When the alarms are triggered the backlight will also flash for a more noticeable warning.
- Reset any variables or a group of variables using an assigned button.
- Use the powerful processing to perform calculations on live data and display the results live.

But most of all you get all the hardware required to upgrade the DASH2 PRO to any of the advanced features and enhancements quickly and easily.

DASH2 PRO Enhancement Options



[Output Drivers/4 analogue](#)



[GPS Data Logging](#)



[6g Accelerometers](#)



[CAN Communication](#)



[PWM Output](#)



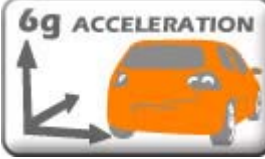
[Advanced Options Bundle](#)

DASH2 PRO - Enhancement options



GPS Data Logging and 2g Accelerometers

A complete data logger and display in a single compact package. Featuring lap timing using GPS, and accelerometers for measuring grip usage. Data is logged to internal memory and downloaded via USB.

	6g Accelerometers An upgrade to the 2g accelerometers in the GPS data logging option. 6g accelerometers are recommended for use on high downforce vehicles, where more grip is available.
	Low Side Drivers and 4 Extra Analogue Channels Low side output drivers and 4 extra analogue inputs is the option you will require if you want to switch on/off external systems automatically using your DASH2 PRO. This control can be simple or based on a complicated custom equation between various channel data. This option also enables the 4 additional analogue channels, making a total of 8.
	PWM Output Controller The PWM (Pulse Width Modulation) output controller generates a pulsed output between 100-1000Hz, at a duty cycle controlled by a user equation. This output allows for a fine control of an output system rather than just a simple on/off control. This is ideal for water injection systems etc.
	Second Serial Port A second serial port is ideal for combining multiple input and output modules for complex systems, or driving a low speed telemetry channel on one port and a high speed output for video overlay on the second. A breakout cable is supplied with this option to enable easy connection of the separate serial ports.
	CAN Communication CAN reception (15 channel license): With this option the unit can decode any CAN data from either the vehicles main CAN stream or CAN based aftermarket ECU. This data can be mapped to any RT channels for saving or sending to serial port. Up to 105 CAN receive channels per unit,

	in multiples of 15. Messages loadable using .dbc files. Data rates of up to 1Mbit and 11 or 29 bit addressing. coming soon - CAN transmission: With this option the unit can transmit any of the internal data channels on the CAN bus at a rate determined by the configuration. A .DBC file is provided with the default channel data and decoding information to make use with third party CAN reception systems much easier. Data for transmission on the CAN bus could be from the internal sensors (GPS, accelerometer, gyro, analogue channels, etc.) or from the serial input from an ECU interface or other unit attached to the serial port. The transmission rate for each channel can be individually configured at rates of up to 100Hz. Transmission can use 29bit or 11bit addressing at a number of different baud rates.
	Advanced Options Bundle Using the data processing power of the DASH2 PRO, this option allows for more advanced features to be configured. Car computer functions Alarms based on time for power on, time for engine on, time over a certain RPM Low fuel warning based on number of laps, distance, or time remaining. Advanced alarms Configure alarms based on up to three conditions Multiple options for clearing alarms Trigger low side driver outputs based on alarms Multiple display options when alarms triggered

Advanced shiftlights

Use shiftlights to display any variable

Enable different shiftlights in each gear

Change colour options for shiftlights

Advanced RPM scale

Use a different variable to drive the bargraph

Configure a different RPM scale at low temperature

Advanced unit control inputs

Use an analogue input to switch between screens at different voltages

Use analogue inputs as extra buttons to give up to 16 extra buttons

Advanced screen display functions

Apply custom update rates and filtering to each displayed value

Hide variables on the screen unless certain conditions are met

Apply custom formula to each displayed value

Advanced lap timing display

Display additional lap timing information across the bottom of the screen

Display maximum cornering force, minimum cornering speed or maximum speed for each sector

Display detailed and summary lap timing statistics at the end of each session

DASH2 PRO - What's in the box?

A DASH2 PRO display system as shipped includes:

- DASH2 PRO unit
- 1 pair of DASH2 PRO connectors with pre soldered fly leads and all relevant connectors
- 2m serial lead (extension)
- Full instruction manual
- Comprehensive software CD
- Mounting template
- Custom carrying case

Please note: It is necessary to connect four external buttons to the DASH2 PRO in order to operate the menu system and select different display screens. Buttons are not supplied with the DASH2 PRO as standard because experience has shown that many customers wish to use their own buttons matching other equipment installed in the vehicle. Race Technology can supply a set of four buttons if required or any momentary "push to make" button can be used.