



# VBOX

## MOTORSPORT

### Vehicle CAN Database

Haltech  
Elite 2500

## Overview

Racelogic have acquired CAN signals for customers to use with VCI (Vehicle CAN Interface) products. This information is available by listening on the relevant CAN bus on the vehicle and interpreting the messages to form easy to use information which is then available for data logging.

## VBox Video HD2 Users

Users of VBox Video HD2 will find this vehicle available to be selected via the VBox Video setup software which can be downloaded from our website. The software is supplied with instant access to the CAN information for a large array of vehicles and is kept automatically up to date as new vehicles and signals are added (Subject to internet connection).

To start using HD2 with your vehicle simply follow the steps below:

1. Open VBox Video Setup
2. Click the "Settings" menu option
3. Select "CAN"
4. Select "Vehicle database" under "Source"
5. Select "Haltech" and "Elite 2500"
6. Tick the signals you wish to use

## Use with other Racelogic Products

Users of other Racelogic products will need to download a file from our website here:

<https://vboxmotorsport.co.uk/index.php/en/customer-area/vehicle-can-database>

Select "Haltech" and "Elite 2500" from the dropdown selection to download the relevant file.

Refer to the user manual of your product for details on how to use this file.

## Wiring Connection

In order to utilise this ECU with Racelogic products, the ECU must be configured to output the relevant channels, this can be done in the Haltech ECU manager software. The default settings are to output on an auxiliary CAN bus, so ensure connection is made to the correct bus. This database is designed for the standard Haltech CAN Configuration, if the datastream has been modified in any way, compatibility issues may arise.

PLEASE NOTE: This information is provided as a general guide to CAN Bus wire colours only and colours may be subject to change without notice. Racelogic accepts no responsibility for damage or malfunction caused by incorrect wiring of its products to a vehicle. Any connection to a vehicle CAN Bus should be done by a trained automotive technician.

### CAN bus Connection

The CAN bus must be configured at a baud rate of 1M and with CAN Acknowledgement enabled and with CAN Termination enabled.

### Cable - VBox Video HD2

To connect the HD2 system to a vehicle CAN bus system using a bare wire, an [RLCAB015L](#) cable must be used.

[Click here](#) for a cable drawing including PIN outs for the RLCAB015L.

Note: If the connection needs to be made using a bare wire interface with the CAN High and Low outputs of the vehicle, we strongly recommend contacting a qualified auto-electrician to perform the fitting.

### Cable - Other Racelogic Products

To connect between your racelogic product and the vehicle a bare wire Cable is available, if this was not supplied with the product please contact us for details.

## Available CAN Channels

The following signals are available for selection:

| Signal                              | Default Units    |
|-------------------------------------|------------------|
| Air Temperature                     | °C               |
| Anti-Lag                            | on/off           |
| Barometric Pressure                 | kPa              |
| Battery Light                       | on/off           |
| Battery Voltage                     | V                |
| Boost Pressure                      | kPa              |
| Boost Pressure - Target             | kPa              |
| Brake Position                      | on/off           |
| Brake Pressure                      | kPa              |
| Clutch Position                     | on/off           |
| Coolant Pressure                    | kPa              |
| Coolant Temperature                 | °C               |
| Differential Oil Temperature        | °C               |
| Engine Load                         | %                |
| Engine Speed                        | rpm              |
| Error Flags                         | on/off           |
| Fuel Composition                    | %                |
| Fuel Flow                           | L                |
| Fuel Level                          | L                |
| Fuel Pressure                       | kPa              |
| Fuel Temperature                    | °C               |
| Gear                                |                  |
| Gear Switch                         | on/off           |
| Gearbox Oil Temperature             | °C               |
| Ignition On                         | on/off           |
| Indicated Lateral Acceleration      | m/s <sup>2</sup> |
| Indicated Longitudinal Acceleration | m/s <sup>2</sup> |
| Indicated Vehicle Speed             | km/h             |
| Manifold Pressure                   | kPa              |
| Oil Pressure                        | kPa              |
| Oil Temperature                     | °C               |
| RPM Limiter                         | on/off           |
| Steering Angle                      | °                |

|                        |      |
|------------------------|------|
| Throttle Position      | %    |
| Turbo Speed            | rpm  |
| Wheel Slip             | km/h |
| Wheel Speed Difference | km/h |
| Wheel Speed FL         | km/h |
| Wheel Speed FR         | km/h |
| Wheel Speed RL         | km/h |
| Wheel Speed RR         | km/h |

Note: not all signals listed above will be applicable to all variants of this vehicle and so may not be available for your specific vehicle.

## Support

If any data contained in this document is incorrect or for further support please visit our website here: <http://www.vboxmotorsport.co.uk/support>