

## VCS Video Capture System

Part No #18201 #18204 #18205 #18206

### Basic Specifications

#### Inputs

- 2 x Camera inputs
- 2 x Microphone inputs

#### Output

- MPEG-2 video, 720x576, 24 kHz PCM audio

#### Communications

- 1 x CAN

#### Physical

- Connectors
  - 1 x micro USB
  - 2 x Autosport 5 pin yellow
  - 1 x Autosport 5 pin red
- Operating voltage 6 - 36 V
- 4 or 16 GB compact flash card

### Other Information

#### Compatibility

- MoTeC Data Loggers: SDL, ADL3 and ACL
- MoTeC 'hundred series' ECUs: M400, M600, M800 and M880
- Check with your dealer for compatibility with earlier models and other products.

#### PC Requirements

- Windows XP or Vista
- USB port

#### Accessories

- #68107 Replaceable lens cover
- #61158 High performance flash card 4 GB
- #61159 High performance flash card 16 GB

### User Manual and Software

Latest releases available from  
[www.motec.com/downloads](http://www.motec.com/downloads)



MoTeC's **VCS Video Capture System** is an integrated in-car camera system, designed for race cars and other harsh environments. The VCS is supplied as a kit (see next page) with either a 4 GB or 16 GB high performance flash card.

### Features

- Solid state digital recorder
- MPEG-2 video compression format at broadcast quality
- Configurable two camera PIP - Picture In Picture - system (second camera optional)
- Uses 12 V vehicle power - no recharging
- CAN interface for easy connection to MoTeC Data Loggers and ECUs
- When using MoTeC's **i2 Pro** or **i2 Standard** Data analysis software\* to analyse logged data, this data can be automatically aligned or synchronised to the video from the VCS.
- Programmable Auto Start/Stop Recording using any transmitted channel
- Gauges can be recorded live on the video
- Fast USB 2.0 download - no bent card pins
- Customisable screen layout

### Software

- Windows-based software designed for video setup and management
- Adjustable brightness, contrast, saturation, hue settings and microphone gain
- Simple to use DVD burning software

## On Screen Display

When using PIP (Picture-In-Picture), the second picture can be placed in any corner of the screen. There are three gauge sets selectable: Small, Medium or Large.

The on screen gauges can be positioned on the top or the bottom of the screen.



## Overlaid Data

The video may have the following data overlaid, depending on sensors installed:

- Throttle Position: a vertical green bar graph scaled between 0% and 100%
- Ground Speed: a gauge from 0 to 300 kph with overlaid numeric value
- RPM: a gauge from 0 to 9000 rpm with overlaid text value
- G force: a G circle from 0 to 2G with an indicator point and an overlaid text value for lateral and longitudinal G
- Brake Switch: a vertical red bar graph
- Gear: a numeric in the centre
- Lap number, Lap time, Last lap time: displayed numeric
- Steering: displayed as a steering wheel



## Kit Contents

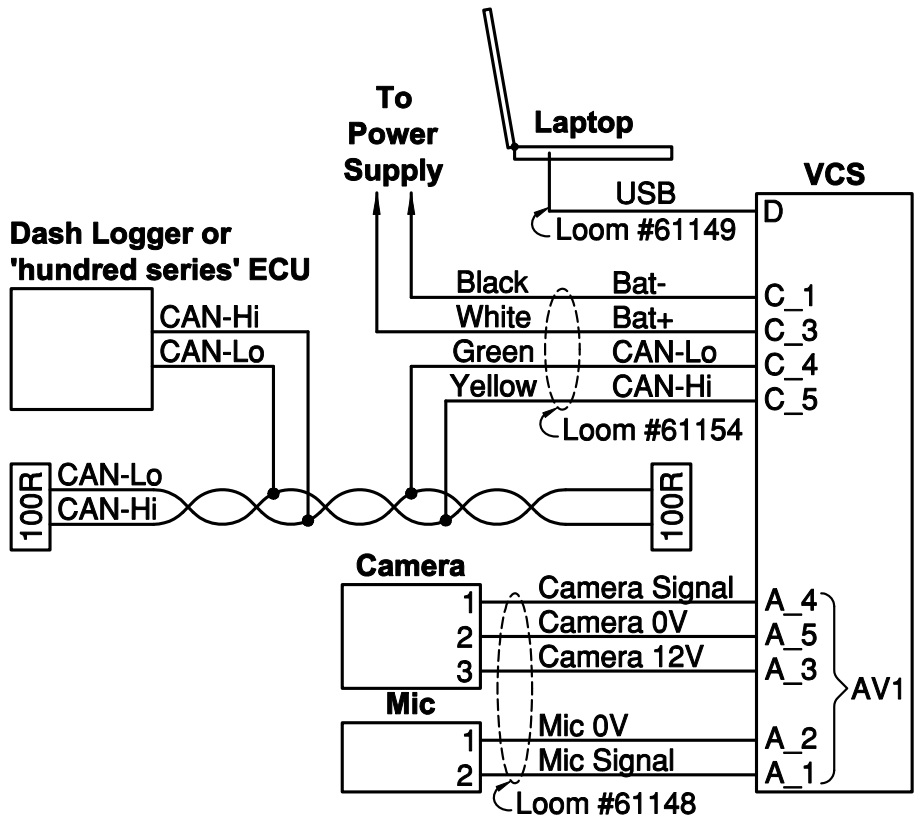
Kit Number	#18201	#18204	#18205	#18206
VCS Pro Recorder including memory card	#18201C 4 GB	#18204C 16 GB	#18201C 4 GB	#18204C 16 GB
#18202 Camera	1	1	2	2
#18203 Microphone	1	1	1	1
#61149 Mini-USB B to USB A Male cable	1	1	1	1
#61148 VCS Adapter Loom	1	1	2	2
#61154 VCS Power / CAN Loom	1	1	1	1
#65076 Roll Cage Mounting Bracket	1	1	1	1
#65077 VCS Mounting Plate	1	1	1	1

## Wiring

The diagram shows how to use the included looms to wire the VCS to the camera, microphone, power supply, CAN bus and laptop.

A Dash Logger or ECU must be wired onto the same CAN bus.

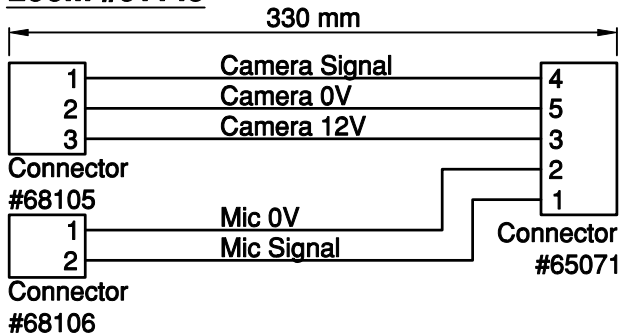
A second camera can be wired similarly to the B-connector



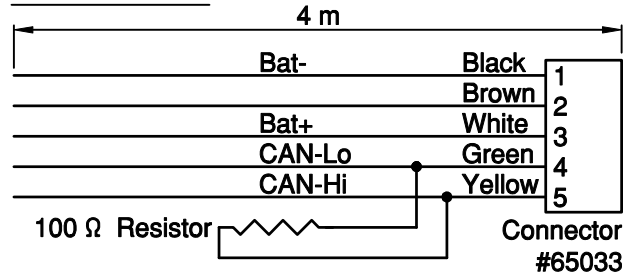
## Looms

The following looms are included in the kit:

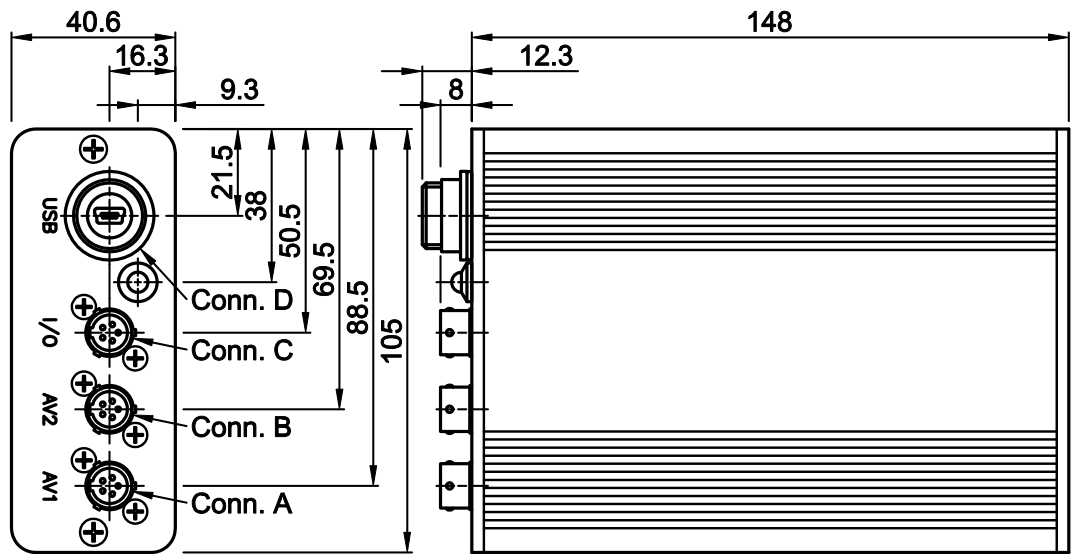
### Loom #61148



### Loom #61154



## Dimensions



## Connectors and Pinout

### VCS Connectors

#### Connector A and B (AV1, AV2)

5 pin Autosport connector  
Mating connector #65071 (yellow)

Pin	Name	Function
1	Mic In	Microphone In
2	Mic 0V	Microphone 0 Volt
3	Cam 12V	Camera 12 Volt
4	Cam In	Camera In
5	Cam 0V	Camera 0 Volt

#### Connector C (Power/Comms)

5 pin Autosport connector  
Mating connector #65033 (red)

Pin	Name	Function
1	Bat-	Battery Negative
2		N/C
3	Bat+	Battery Positive
4	CAN LO	CAN Low
5	CAN HI	CAN High

#### Connector D

Mini-USB connector

### Camera Connector

4 pin Binder Connector  
Mating connector #68105

Pin	Name	Function
1	Cam Out	Camera Out
2	Cam 0V	Camera 0 Volt
3	Cam 12V	Camera 12 Volt
4		N/C

### Microphone Connector

3 pin Binder Connector  
Mating connector #68106

Pin	Name	Function
1	Mic 0V	Microphone 0 Volt
2	Mic Out	Microphone Out
3		N/C

\* **i2 Pro** software is available via two methods:

- the Pro Analysis upgrade on the ECU or Dash Logger - refer to the relevant device documentation for more information.
- the **i2 Pro** Feature Licence - refer to the online help in **i2 Pro** software.