

# Chevrolet & GMC Caravan Camera Integration

1458-1



1458-1\_INS\_V1.4

## Contents

Required Tools for Installation	2
Kit Contents	2
Interface Connectors	2
Dip Switch Settings	2
Dash Removal	3
Mode Change & Operation	3
Installation	4
Final Tests and Checks	5
FAQs and Troubleshooting	5

### **PLEASE READ BEFORE BEGINNING INSTALLATION**

#### **Installation Terms & Conditions**

- All labels on the product including software versions and serial numbers must not be covered, damaged or removed. This may void the warranty on the product.
- Ensure that all left over accessories, including remote controls and cables, are kept for future use. If replacements are required in the future, they will not be provided free of charge.
- Please ensure the installation of this product will not interfere with any factory safety equipment (e.g. Airbags).
- If working with Airbags, be sure to disconnect the vehicle Battery before beginning work. This product and the following instructions are designed for installation by a qualified 12v installer, car audio installer or auto electrician.
- Interfaces and Navigation modules must not be installed in a location where they will be exposed to extreme temperatures including, but not limited to, installation on top of a vehicles radio, transmission tunnel or firewall. Damaged caused by exposure to heat is not covered under warranty.

#### **Overview**

This system is for Chevrolet and GMC vehicles and will integrate cameras into the factory 8 inch screen. It allows viewing of two cameras - one camera while driving forwards and one camera that automatically overrides the factory camera when connected. If a single camera is connected, this camera can be viewed in both applications.

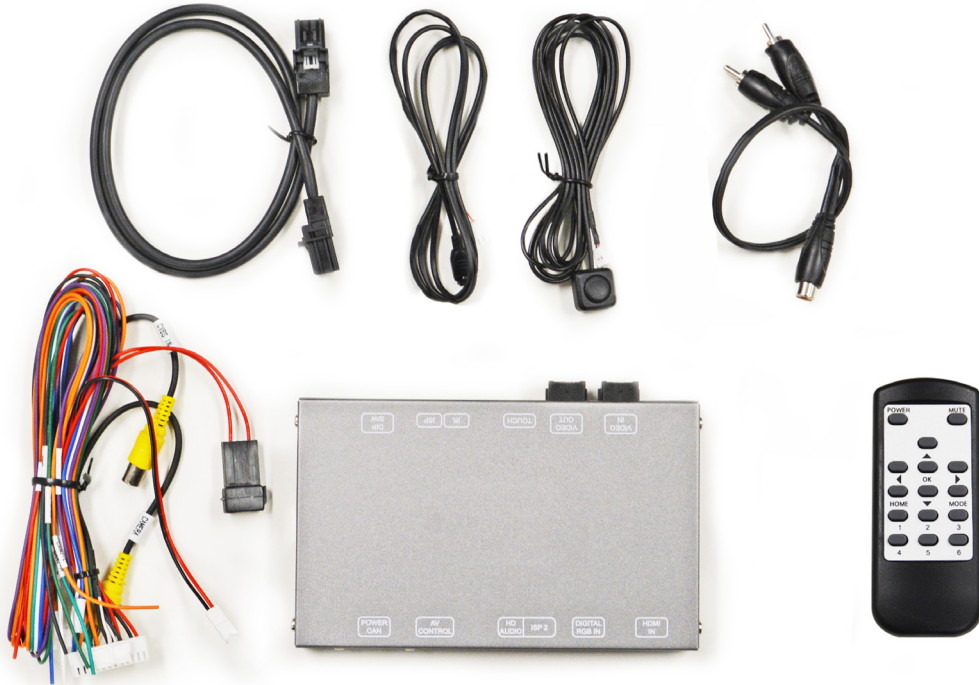
#### **Important Product Information**

- This product comes with a 2 year warranty against manufacturer related defects.
- **Please Note: This system is only compatible with NTSC and PAL cameras. AHD cameras are not supported.**

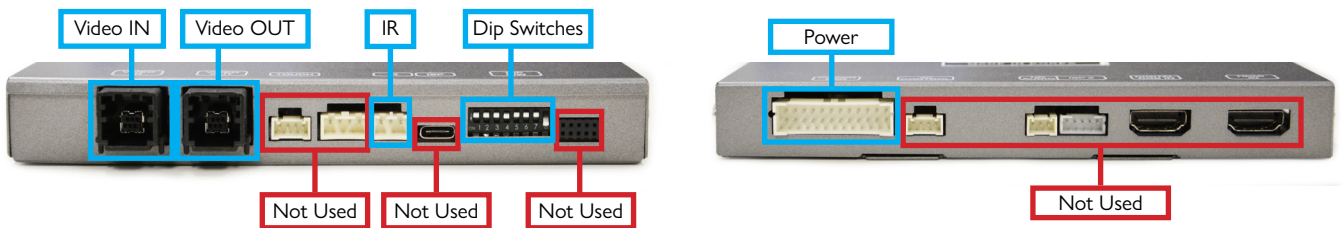
## Required Tools for Installation

- Dash and Trim Removal tools
- 7mm Socket Set
- Dash Protection Tape (Recommended)
- Wire Cutters, Soldering Iron & Insulation Tape

## Kit Contents



## Interface Connectors



## Dip Switch Settings

Dip Switch	1	2	3	4	5	6	7	8
UP	OFF	OFF	OFF	OFF	OFF	OFF	OFF	-
DOWN	-	-	-	-	-	-	-	ON

## Mode Change & Operation



Mode Switch

Mute Button

### View Caravan Camera while Driving

- SINGLE PRESS: Activation/Deactivation     DOUBLE PRESS: Activation/Deactivation

### View Caravan Camera in Reverse

- LONG PRESS: Activation/Deactivation     LONG PRESS: Activation/Deactivation

#### Note

The Mode Switch maybe installed in a different locatoin depending on each installation

## Dash Removal

- Using a suitable dash Removal tool, remove the silver trim around the screen section of the dash and remove 7mm screws form behind this trim.
- To remove the centre console, using a removal tool, remove the 2 side panels that run from the front to the back of the centre console on both sides. These are removed by unclipping and sliding toward the back of the vehicle. This will allow the centre console to be lifted and removed.
- Remove the plastic panel at the front of the centre console below the radio panel and remove the 2 x 7mm screws in the lower section.
- Gentle pull the radio panel towards you, but only slightly remembering the cables are attached at the back. Unplug all connectors and remove the radio panel from the Vehicle.

## Installation

- Connect the 12V+ and 12V- wires to the Power Socket (cig. socket) harness from the dash panel. The wires are normally Red and Black and correspond to the wire colours from the integration module. The power from this socket is Constant 12V+ and not switched through ignition so remember this when soldering your connections.
- The Blue CAN BUS (CAN1-H) wire needs to be connected to the factory radio plug (**Figure 1**). Connect the Blue wire to the Green wire, solder and insulate (**Figure 2**).
- The Orange (CAN2-L), Green (CAN2-H) and White (CAN1-L) wires are **not used** and need to be insulated.
- The Orange (IR), Green (REVERSE) & Purple (REAR 12V OUT) are also **not used** and need to be insulated.
- Run the factory LVDS cable down to the lower left part of the dash where the module will be mounted.
- Run the supplied LVDS cable from the module back to the factory screen location.
- Connect the additional camera RCAs to the RCA inputs on the module's harness and locate appropriate power source for cameras.
- Run the Mode switch to a suitable location for activation of the RTC function. This mode switch must be installed (**see Figure 3 for an example**).
- Mount the module to the lower dash section on the passenger side (**Figures 4 & 5**). Be sure to mount it with the LVDS cables facing in towards the dash as the factory LVDS cable will only reach to this point. Drill 2 small 8mm holes and run a zip tie around the module and back through the holes and tighten.
- Reinstall the factory radio panel and test for correct operation.

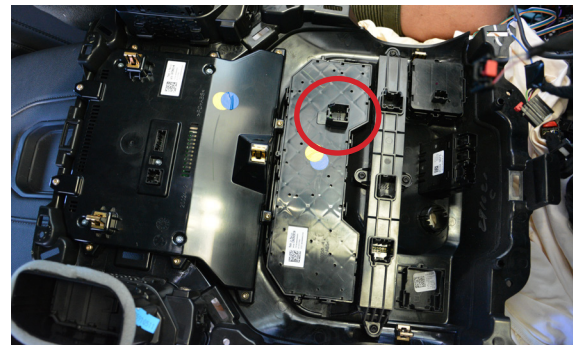


Figure 1

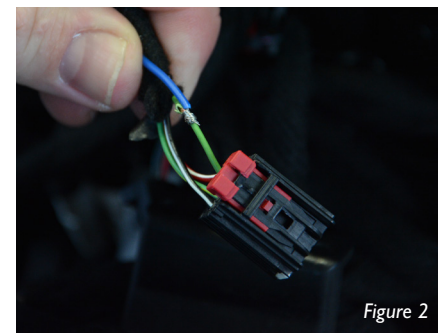


Figure 2



Figure 3

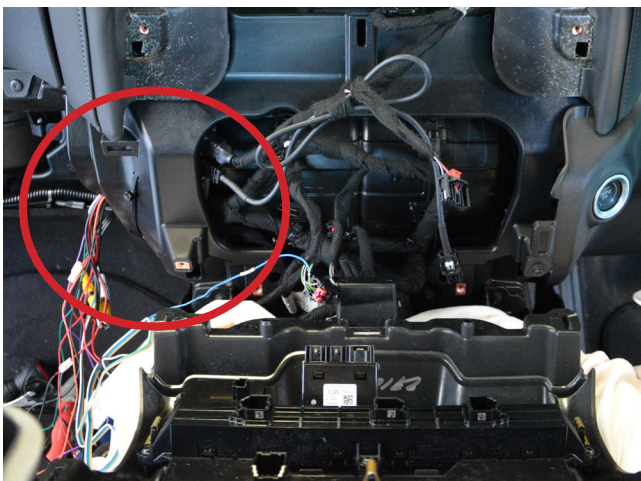


Figure 4

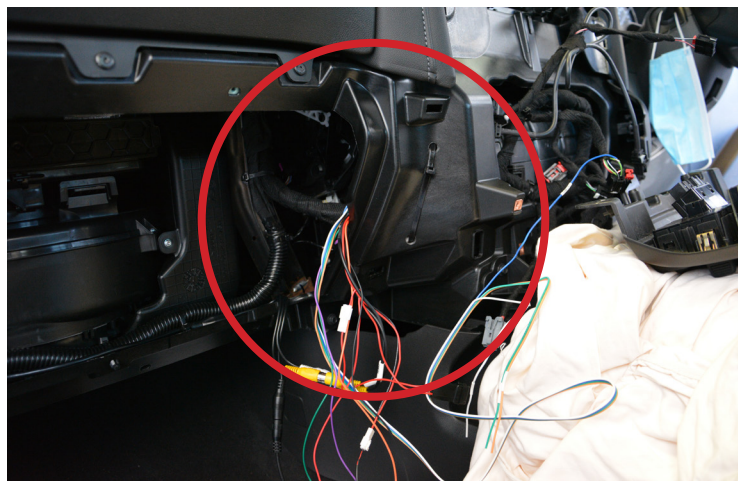


Figure 5

## Interface Menu Settings

**Step 1:** Activate the interface Source by pressing the mode switch which should result in the screen switching to a blank black screen and display NAVI in orange for a short time. If it does not switch to a Blank Screen, check that dipswitch 1 is On/Down. If it isn't change it and disconnect power to the interface for 10 seconds.



**Step 2:** Ensure the Infrared eye is connected to the interface and then use the following process (Step 3) with the remote control to activate the On Screen Menu (OSD)

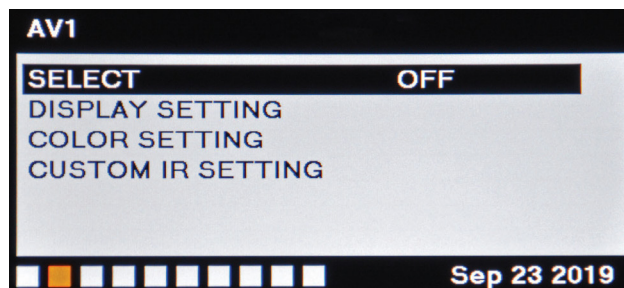
Step 3: Press the OK button 4 times, you will see the numbers on the screen for each press. Then press the power button. You should see a menu display (see image below)

**Step 4:** Use the Right Arrow button to navigation to the AV1 Menu and turn AV1 from Off to On.

**Step 5:** Once AV1 is activated you can press the Mode Button again and the screen should switch to AV1

**Step 6:** If this is successful and you turned dipswitch 1 on in step 1, change Dip Switch 1 back to UP/OFF position. Then Activate the interface source and it should now go straight to AV1.

**Step 7:** Check to see that you have a camera image on AV1 and when in Reverse by Activating our RTC function (see Activation/Operation Instructions).



If all is working correctly complete the installation.

**Note - Activating AV2 and AV3 requires the optional AV Expansion Board (Part# 1411)**

## Final Tests and Checks

- Before reinstalling the factory dash panels, test the factory screen for correct operation
- Connect Camera(s) to the appropriate points and test for correct functionality of cameras as well as RTC function.

Q1. The Screen is black after the system has been installed.

A1. Check the LVDS cables are installed correctly and swap if necessary.

Q2. When the camera screen is activated there is no image.

A2. Please check that the cameras have 12 volt power and check the camera power fuse. Also, please note that this system is only compatible with NTSC and PAL cameras. It is NOT compatible with newer AHD format cameras.

Q3. The cameras are NTSC or PAL format and there is still no image.

A3. Make sure the cameras are powered correctly and connected to the correct input.

Q4. The RTC function will not operate.

A4. Check the Mode Switch is installed correctly and connected.

Q5. Module doesn't operate/switch on after installation.

A5. Check Dip Switch settings are correct as per the table on [page 2](#).