

NAV-TV

INTERFACING THE FUTURE

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CHRY UNI-CAM

Chrysler/Dodge/Jeep uConnect (RA4/RA3/RA2)

Camera/CIM Interface

NTV-KIT576/578



Compatible with select 8.4" & 5" uConnect radios

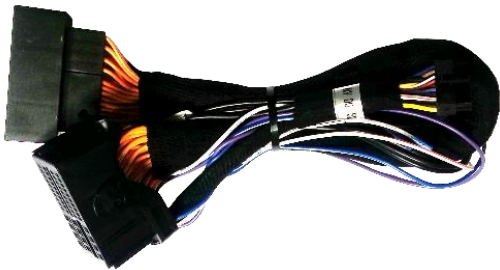


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NTV-DOC202
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Overview

The CHRY UNI-CAM system interfaces an aftermarket camera to the factory 8.4" or 5" touch screen in compatible 2013+ Chrysler, Dodge and Jeep vehicles. Additionally, the user can force the camera to display on screen at any time, in any gear.

Kit Contents



Plug & Play T-harness
NTV-HAR246



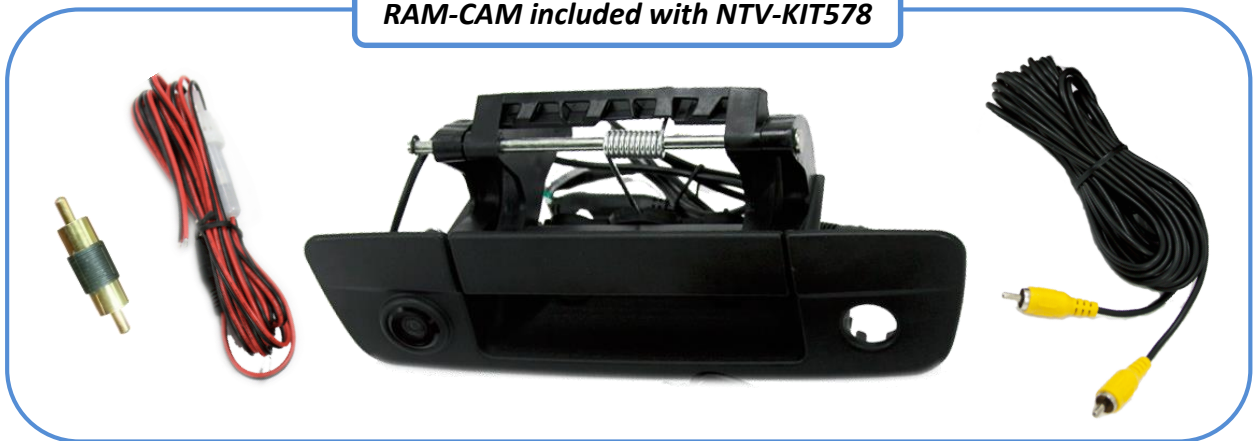
CHRY UNI-CAM Module
NTV-ASY166



USB Cable (updates)
NTV-CAB009

Compatibility (RA4/RA3/RA2: 8.4" or 5" Radios)			
	2013+	2014+	2015
CHRYSLER			300 (8.4" only)
DODGE	RAM, VIPER	DURANGO	CHALLENGER, CHARGER
JEEP		GRAND CHEROKEE	

RAM-CAM included with NTV-KIT578



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CHRY UNI-CAM pin out

PIN #	Description	Color
1	12v (+) Constant	Yellow
2	INPUT 1 (Control in Motion activation)	Red
3	INPUT 2 (Force Rear Camera)	Blue
4	INPUT 3 (Not Used)	Pink
6	RCA MALE	--
7	RCA Shield	--
8	CAN HI (Radio Side)	Brown/White
9	CAN HI (Car Side)	Blue/White
10	Ground (-)	Black
11	OUTPUT 1 (Provides 12v (+) ACC)	White/Red
12	AVSW1 (Not Used)	Blue/White
13	AVSW2 (Not Used)	Purple
15	RCA Female (Normally Open)	--
16	RCA Female (Normally Closed)	--
17	CAN LO (Radio Side)	Brown
18	CAN LO (Car Side)	Blue

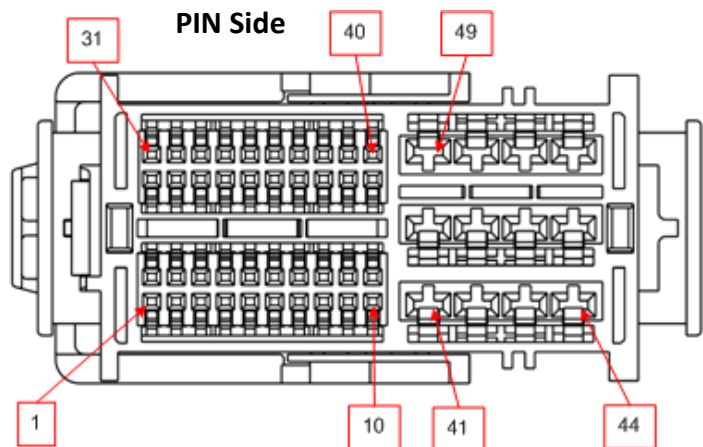


*Note: Vehicles equipped with a **monochrome screen** are not full color LCD screens and are not compatible with the CHRY UNI-CAM.*



2013+ Dodge/Jeep Radio LCD connector pin out

Pin #	Description	Color
2	CAN HIGH	Dark Blue
12	CAN LOW	White
31	DIFF Video (+)	Green/Brown
32	DIFF Video (-)	Green/Orange
33	Shield	
43	Ground	Black
44	Constant 12v	Red



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Dash Disassembly (RAM)

1. Remove the Torx t20 screw at the right rear of the pocket on the right side of the dash.



2. Remove (2x) Torx t20 at the top of the dash. They are hidden beneath a rubber mat.



3. The face should be free now, pull straight outwards (towards you) with medium force. Use plastic panel tools if necessary.



4. Remove (4x) 7mm screws that secure the LCD touchscreen.



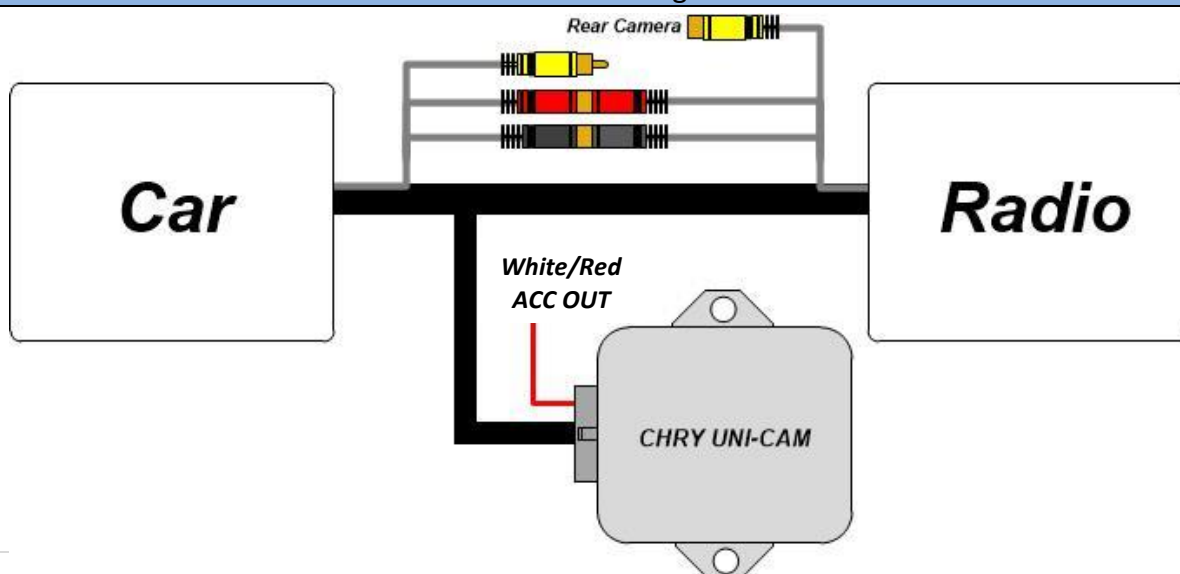
CHRY UNI-CAM Module Installation

It is strongly advised to install this data module while no other installations are being performed simultaneously, as the CAN network must be reset before testing.

1. After removing the factory radio, gather the **Plug & Play T-harness** and connect the female side to the factory 44-pin plug. Make certain the lock connects together securely.
2. If installing NAV-TV's optional **RAM-CAM**:
 - a. The factory tailgate handle must be removed
 - b. The factory key slot (in the tailgate handle) must be swapped over to the RAM-CAM's handle
 - c. Mount the RAM-CAM with the provided hardware
 - d. Connect signal (RCA) and power harness (extend) and run forward to the dash opening.
3. After installing a rear camera, connect the signal RCA to the **yellow RCA** on the **male side** (side going into monitor) of the Plug & Play T-harness. The other side of the **yellow RCA** can be left disconnected.
4. Connect the **red** and **black** RCAs together in the Plug & Play T-harness (otherwise, you'll lose AUX audio)
5. Connect the CHRY UNI-CAM module to the 18-pin connector found in the Plug & Play T-harness.
6. Connect the monitor to the male side of the Plug & Play harness. Reconnect all other plugs to the monitor.
7. **Let the vehicle perform a CAN reset:** before attempting to test, after all Plug & Play connections are made, close all doors and leave ignition key out of the ignition for 3 minutes.
8. Test for proper operation (see 'Operation', pg. 6).



Installation Diagram



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CHRY UNI-CAM Operation

Placing the vehicle in REVERSE will automatically transition the screen to display the connected camera's image.

Force rear camera: Press & hold (2 sec)
Or
Send 12v (through toggle) to INPUT 2 (Blue)

CIM: Hold (3 sec) to activate (NAV-equipped radios only)



Force Rear Camera: To force rear camera, press and hold radio **'BACK'** button for 2 seconds. To exit forced rear camera, press and release radio **'BACK'** button. **Note: this function is NOT supported on vehicles equipped with a factory reverse camera.**

Additionally (or for 5" screens), sending 12v to INPUT 2 (Blue) through a toggle switch (not included) will force the rear camera in any gear, at any time.

Activate CIM (Control in Motion): To activate CIM for navigation-equipped vehicles, press and hold the 'Volume' button for 3 seconds (CIM will disable automatically after 3 minutes). **This function will reset upon every key cycle.**

Additionally, sending 12v to INPUT 1 (Red) through a toggle switch (not included) will activate CIM as well.

FAQs

Q1. I hear no audio when my auxiliary source is playing.

A1. Verify that the audio RCAs are connected together in the Plug & Play T-Harness.

Q2. When I place the vehicle into reverse, I get a black/blue screen.

A2. Make sure the camera is getting sufficient power and the RCA is connected to the YELLOW RCA behind the screen, NOT to the RCA on the CHRY UNI-CAM.

Q3. The camera image is displayed properly when the vehicle is in reverse, but there's only a black/blue screen when the camera is forced.

A3. Make sure the camera power is not connected to the reverse lamps for power. Camera power needs to be connected to an accessory wire (cigarette lighter or OUTPUT 1).

Q4. When I force my OEM reverse camera, the image disappears after some time when traveling down the road.

A4. Forcing the factory camera is not supported with the CHRY UNI-CAM as it is data-controlled. Aftermarket reverse cameras will stay on provided the camera is powered with ACC.

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