

NAV-TV

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BHM
08/24/17
NTV-DOC260

RGB-PCM3.1N (NTV-KIT749)



Overview

The RGB-PCM3.1N interfaces 2 video inputs including a backup camera with dynamic guidelines to the factory touch screen radio in select Porsches equipped with the PCM3.1 radio. This kit connects behind the radio **following a radio modification**. AUX Video Switching is performed using the 'NAV' button on the radio face (optional).

Kit Content

HD-LINK Optional KIT800



RGB-PCM3.1N Interface



IR Receiver



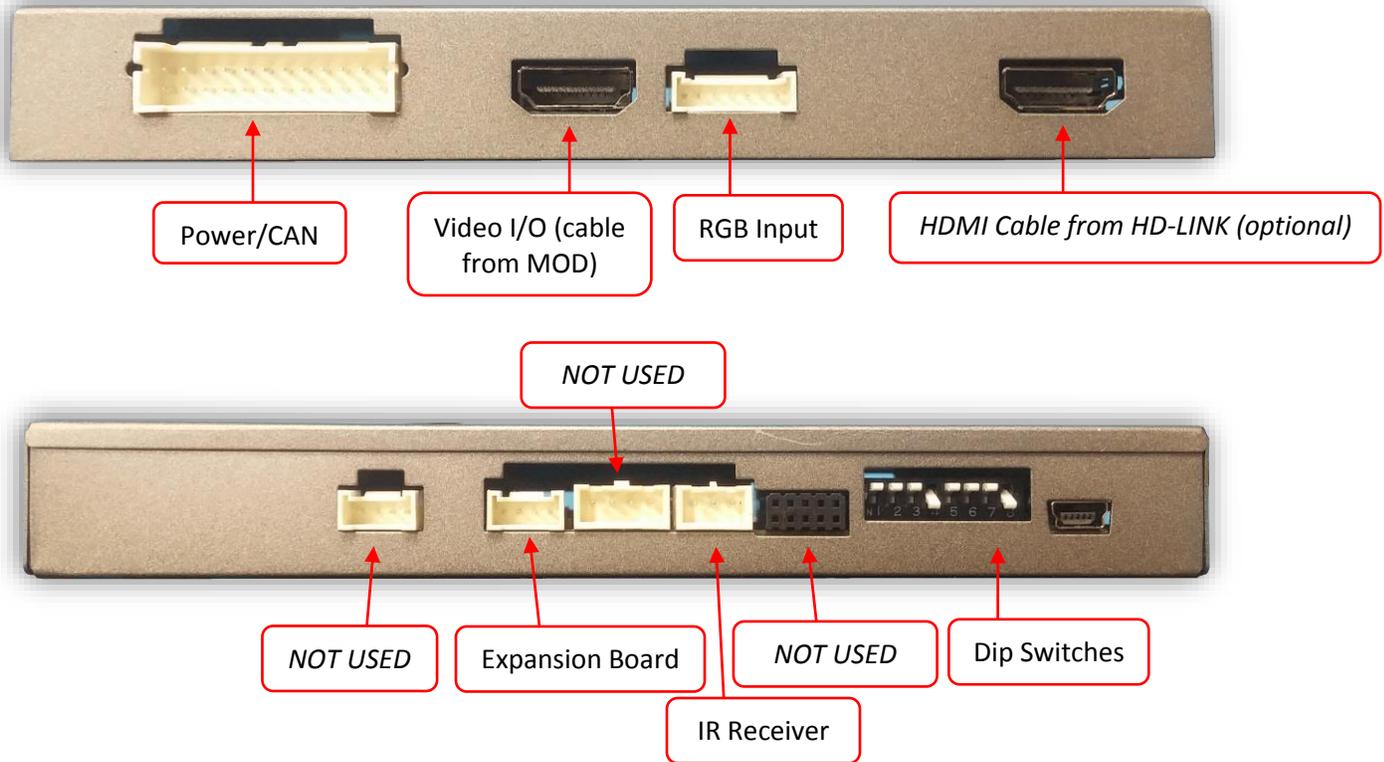
Power Harness



Remote
(menu control)

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Interface Connectors



Dip Switch Settings

Dip SW:	1	2	3	4	5	6*	7	8
UP	KEEP UP	Skips V1	Skips V2	RVC OFF	N/A	N/A	N/A	KEEP DOWN
DOWN	KEEP UP	Enables V1	Enables V2	RVC ON	N/A	N/A	N/A	KEEP DOWN

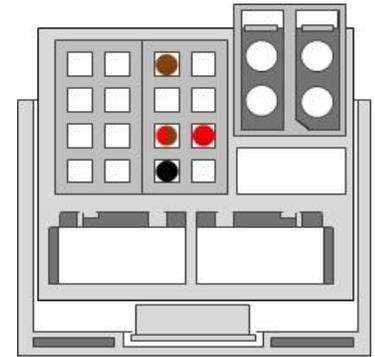


****Note: Disconnect power to the interface before adjusting dip switches or the change will not be implemented.***

RGB-PCM3.1N Installation

1. From the main power harness, solder the following connections to the **main radio quad-lock connector**:

PCM3.1N Wire	Description/Label	Connect to Radio Plug
Black	Ground (-)	PIN 12 (-)
Red	Constant 12v (+)	PIN 15 (+)
Blue	CAN1 HI	PIN 11 (Brown/Red)
White	CAN1 LO	PIN 9 (Brown)
Orange	CAN2 HI	--NOT USED--
Green	CAN2 LO	--NOT USED--
Green	Reverse	12v (+) reverse*



Wire side view of quad-lock

***NOTE:** **Green** 'REVERSE' wire is only used when CAN will not transition reverse (often with manual transmissions)

2. Connect the HDMI connector (LVDS standard) from the previously modified radio to the port on the interface labeled '**VIDEO OUT**'.



3. Connect your reverse camera to the yellow RCA input among the power harness labeled '**CAMERA**'. The purple wire from the main power harness provides 12v (+) when in reverse only (500mA MAX).
4. **Optional:** if adding an AUX video/front camera, connect the source signal to the secondary (female) RCA among the power harness (be certain this source is connected to ACC power).
5. **Optional:** If using the remote to adjust ANY settings from the OSD menu, connect the IR receiver to the port on the interface labeled '**IR**'. Refer to page 10 for menu adjustment details.
6. Connect the main power harness to the RGB-PCM3.1N interface and proceed to 'Operation' for testing and validation.

Note: All other included harnesses not mentioned in this manual are not needed for most installations. If you would like to know more about the full capability of this interface, contact NAV-TV tech support at 561-955-9770. Additional features not mentioned in this manual are not supported by NAV-TV at this time.

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RGB-PCM3.1N Operation

- Once all connections are made, start the vehicle and place into reverse. The connected camera will display on the main screen with dynamic guidelines for convenience.
- If desired, front camera can be setup (via OSD menu) to show for the user-set amount of time after leaving reverse gear. Forcing the AUX video/front camera is available by pressing the **NAVI** button on the radio.



Press to cycle video inputs

*(AV1 must be turned ON
in OSD menu)*

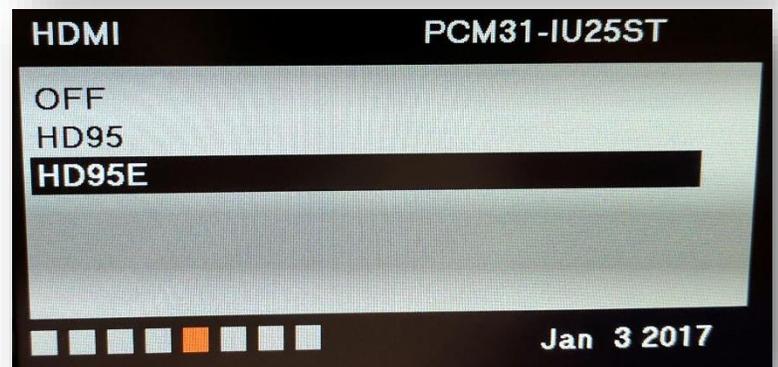
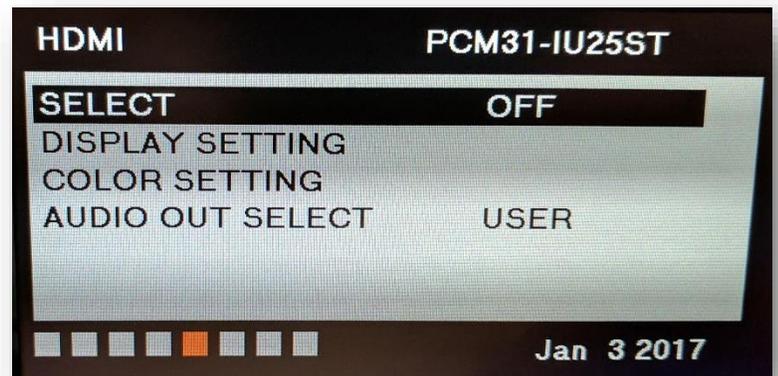
Adding HD-LINK Adapter (HDMI Input)

Follow the instructions below when adding the HDMI adapter (HD-LINK) to enable HDMI input to the OEM screen:

1. Put dip switch #1 in the **DOWN** position.
2. Activate the 'NAV INPUT' by pressing the 'NAVI' button on the radio face.
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, then press **POWER**.
4. Navigate to the 'NAVI' section.
 - a. Select 'HDMI' (5 blocks over)
 - b. Choose 'HD95E'
 - c. Press **MODE** on the remote to return and exit the OSD menu (or let it time out).



5. Replace dip switch #1 to the **UP** position.
6. Connect the **black wire** to ground (-) and the **red wire** to ACC power (+) from the main power connector on the **HD-LINK** adapter. The RCA's on this plug provide audio from the HDMI source.



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RGB-PCM3.1N Menu Adjustments

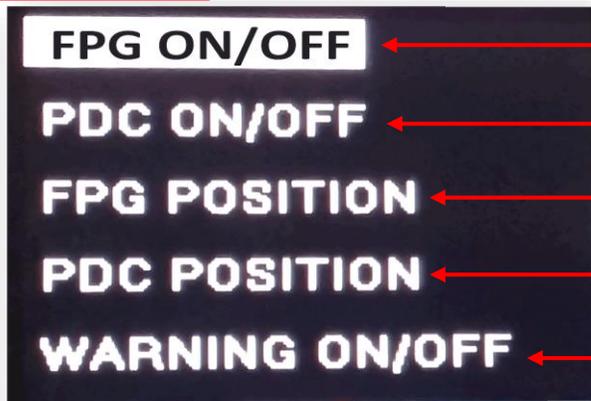
Before you start:

- The IR-Eye must be connected, (connects to main harness)
- Make sure the car’s ignition is on and radio is on
- You must be in **Reverse Camera** mode.
 - **Reverse Camera Mode** adjusts Reverse Camera Settings
- Press the **OK BUTTON 4 times** (numbers will display per press), then press **POWER**.
- The **OSD Menu** will appear on screen (auto-time out in about 5 seconds if no action occurs).



Select choice & Return

Reverse Menu



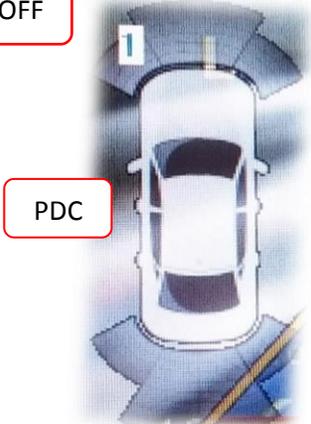
Functional Parking Guidelines ON/OFF

Parking Distance Control ON/OFF (while in reverse)

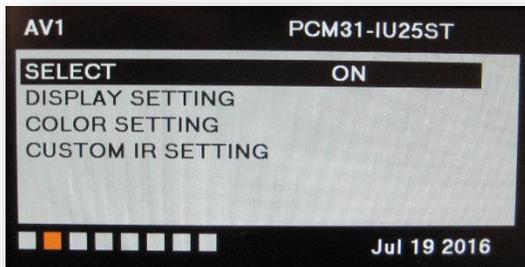
Adjust FPG Position

Adjust PDC Position

‘Safe to move?’ ON/OFF



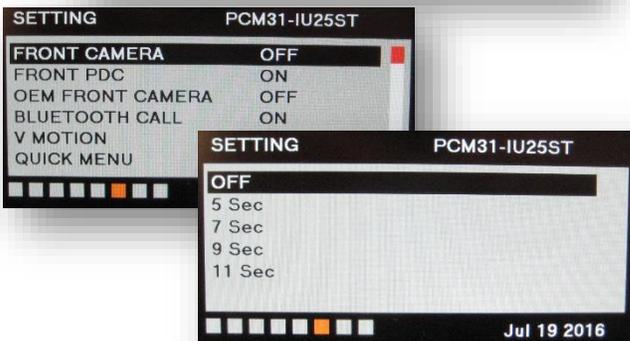
AUX Video Menu



If adding a front camera OR Aux Video source:

1. Disconnect POWER/CAN Harness from interface
2. Place DIP SWITCH 1 in the DOWN position, reconnect power
3. Press the **NAVI** button on the radio to activate ‘NAVI’ screen
4. Press **OK** button on remote 4 times, then press **POWER**

If the user wants only an AUX video input **without front camera**, set **AV1 SELECT** to **ON**, scroll to the end (right side) of the menu and exit menu.



FRONT CAMERA setting is used when **the user wants automatic front camera switching**. Options for 5, 7, 9 or 11 seconds are user-selectable for the length of time the front camera input stays active once the vehicle is placed out of reverse.

Once finished with settings, place DIP SWITCH 1 back into the **UP position** and reset power to interface (if this step is not taken, the unused ‘NAVI’ input will show as an additional video input when cycling video inputs)

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