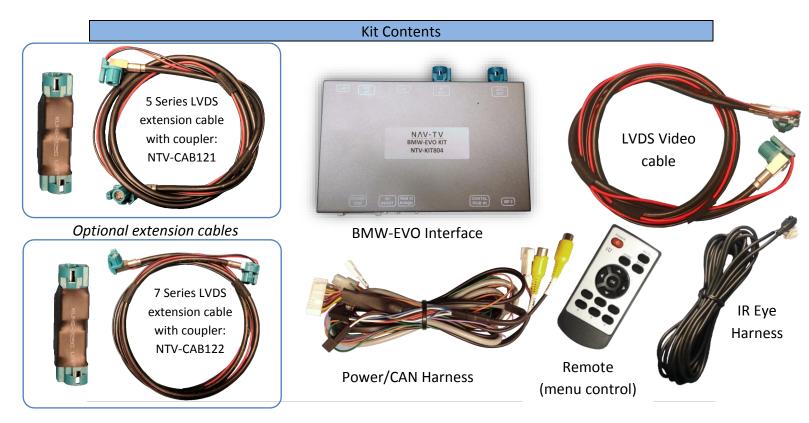


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The BMW-EVO kit interfaces 2 video inputs (including a backup camera) to the factory media screen in select 2017 BMWs with the **NEW GUI (NON-TOUCH SCREEN).** This interface generates steering-based guidelines while in reverse for added convenience. *NOTE: the touch-screen models with this OEM system are not compatible.*



Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

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NTV-DOC290

Interface Connectors

Dip Switch settings*

Dip SW:	1	2	3	4	5	6	7	8
UP	NO NAV	N/A	N/A	RVC	N/A	N/A	KEEP	KEEP
				OFF			DOWN	DOWN
DOWN	ADDING	N/A	N/A	RVC	N/A	N/A	KEEP	KEEP
	NAV			ON			DOWN	DOWN



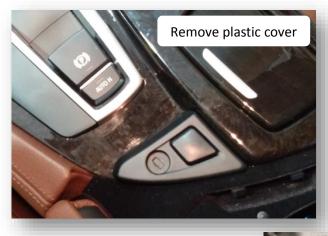
*Note: after adjusting Dip Switches, you must disconnect and reconnect power to the interface or the change will not be implemented.

BMW-EVO Interface Installation (5 Series example)

- 1. The BMW-EVO intercepts *two OEM plugs in two locations:* the iDRIVE knob and the screen. You must gain access to both places for proper installation.
 - a. Access the rear of the screen by removing the dashboard panel (clips only) and then removing (2x) Torx T20 screws securing the screen to the sub-dash.



2. To access the iDrive harness, remove the panel surrounding it (may have Torx screw securing to sub dash)







3. Lift up the lower dash panel and disconnect 4-PIN plug powering the iDrive knob.

4. Connect provided 4-PIN T-Harness in between iDrive knob and OEM harness as shown.



7 Series

Extension

NTV-CAB122

4. Replace the lower dash panel (with iDrive knob) back to sub-dash.

5. Disconnect the OEM screen LVDS video cable and connect it to the port on the BMW12-N labeled '*LCD-IN*'.



NOTE: If purchased (separately), use the LVDS extension cable (with coupler) from the OEM screen cable removed from the screen to the module for convenience.

6. Connect the provided *LVDS Video Cable* to the port on the BMW12-N labeled '*LCD-OUT*' and the other end back to the screen.

5 Series

Extension

ITV-CAB121



OR

7. Install and run the reverse camera video source power and signal to the BMW-EVO interface location and connect to the RCA labeled *'CAMERA'*. Power your camera with an ACC source or use the **violet wire** for reverse 12v (+) only. NOTE: this wire outputs 500 mA MAX – do not use to supply power to more than 1 camera. Use this wire to trigger a relay if you're concerned with current supply.

8. *Optional:* If installing a secondary camera or AUX video source, connect signal RCA to the RCA on the BMW-EVO interface labeled 'AVIN'.

7. After DIP switch settings have been set (see page 2), connect the 24-PIN power connector to the BMW-EVO interface labeled '*POWER CAN*'. Proceed to *Menu Options* section if necessary (front camera settings, etc) or to *BMW-EVO Operation*.

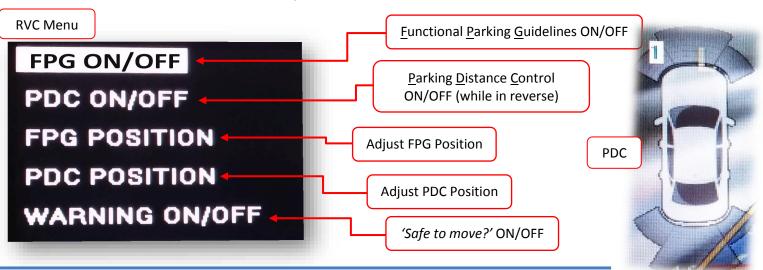


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Menu Adjustments

Before you start:

- The IR-Eye must be connected
- Make sure the car's ignition is on and radio is on
- You must be in *Reverse Camera* mode *OR AUX Video* mode (see below):
 - Reverse Camera Mode adjusts Reverse Camera Settings
 - AUX Video Mode adjusts AUX Video 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).



	SETTING	SP26FT
	FRONT CAMERA	OFF
AUX	OEM FRONT CAMERA RTC REAR SEL V MOTION QUICK MENU	5 Sec ON CVBS ON ON
VIDEO		Mar 28 2016
N /	~	
Menu	AV 1	SP26FT
Menu	AV1 SELECT DISPLAY SETTING COLOR SETTING CUSTOM IR SETTING	SP26FT

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 and hold the iDRIVE knob 'MENU' to activate the AUX screen
- 4. Press OK button on remote 4 times, then press POWER

If adding front camera and the user wants it timed (after leaving reverse), use FRONT CAMERA to set desired time.

If adding front camera or AUX video (no timer), set AV1 to ON using the arrow keys on the remote (use 'UP' to change OFF to ON)

If adding HDMI Adapter, see next page.

Once finished with settings, place DIP SWITCH 1 back into the UP position and reset power to interface.



Adding Optional 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.
- Activate the 'NAV INPUT' by pressing the 'MENU' button (iDRIVE knob)
- Once 'NAV INPUT' shows on the screen, on the remote press the OK BUTTON <u>4 times</u>, then press POWER.
- 4. Navigate to the 'HDMI' section.
 - a. Select 'OFF'
 - 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. See page 8 for a connection diagram.

HDMI	SP26FT
SELECT	OFF
DTV IR SELECT	OFF
DVD IR SELECT	CUSTOM
DISPLAY SETTING	
COLOR SETTING AUDIO OUT SELECT	USER
	Mar 28 2016
HDMI	SP26FT
OFF	
HD95	
HD95E	



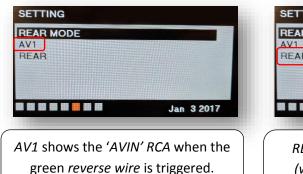
Mar 28 2016

Green Trigger wire setup

This module includes a green *input* wire for analog triggering of either the Reverse camera input or the 'AVIN' input (yellow RCAs), selectable through the AV menu. This allows for adding multiple cameras through the use of an SVS-6 switcher, etc. Follow the steps below adjust this feature. *NOTE: by default, the green wire will trigger the Reverse camera input RCA.*

- 1. Put dip switch #1 in the **DOWN** position. When this section is complete, return switch #1 **UP**.
- 2. Activate the 'NAV INPUT' by *holding* the 'MENU' button on the iDRIVE knob.
- 3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON** <u>4 times</u>, then press **POWER**.
- 4. Navigate to the 'SETTING' section (6 blocks over).
 - Select 'REVERSE WIRE'
 - Choose 'AV1', 'REAR' or 'REAR MODE' (explanations below)
 - Press *POWER* on the remote to return and exit the OSD menu (or let it time out).
 - Test by sending temporary power (12v +) to the *green wire* labeled *reverse*.





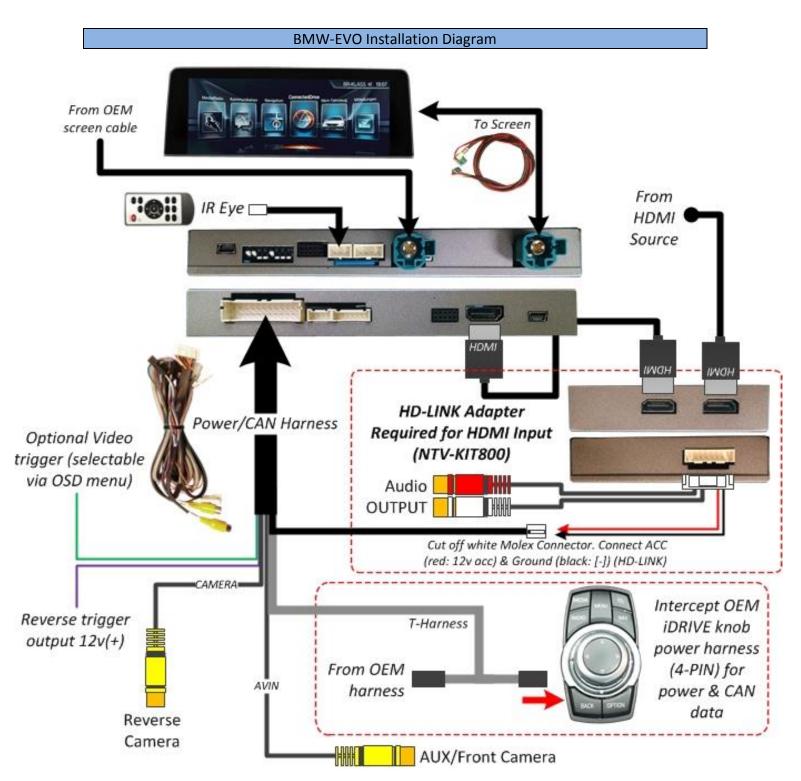


REAR shows the 'CAMERA' RCA (with no lines) when the green reverse wire is triggered.



REAR MODE shows the 'CAMERA' RCA (with dynamic lines) when the green reverse wire is triggered.

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BMW-EVO Operation

- Once all connections are made and dip switches are set properly, placing the vehicle in reverse will display the connected camera with dynamic guidelines for convenience.
- Additionally, see below for AUX/Front camera/HDMI activation using factory buttons.

