

3950 NW 120th Ave, Coral Springs, FL 33065 TEL 561-955-9770 FAX 561-955-9760

www.nav-tv.com

info@nav-tv.com

BMW-EVO KIT

NTV-KIT804

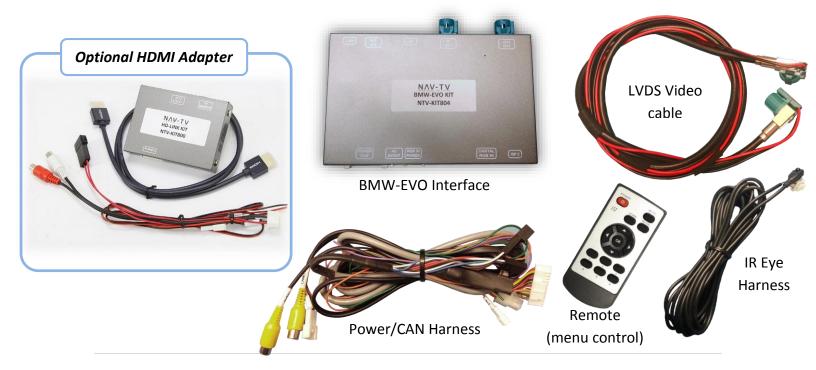




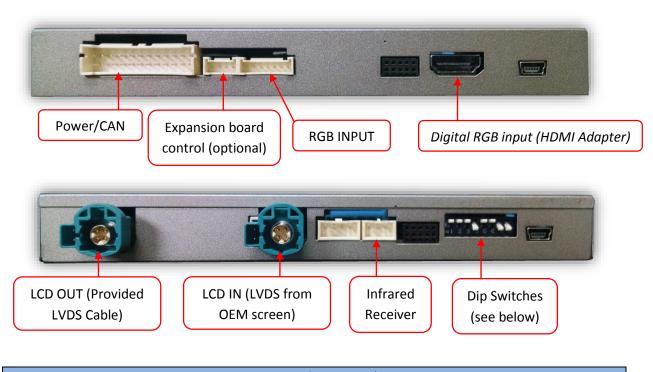
Overview

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.

Kit Contents



Interface Connectors



Di	p:	Swi	itc	h se	etti	ngs*
----	----	-----	-----	------	------	------

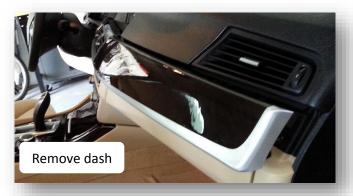
Dip SW:	1	2	3	4	5	6	7	8
UP	NO NAV	N/A	N/A	RVC	N/A	N/A	KEEP	KEEP
				OFF			DOWN	DOWN
DOWN	ADDING	N/A	N/A	RVC	N/A	N/A	KEEP	KEEP
	NAV			ON			DOWN	DOWN



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

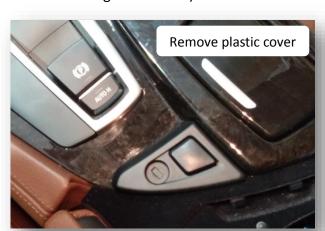
BMW-EVO Interface Installation (5 Series example)

- 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.



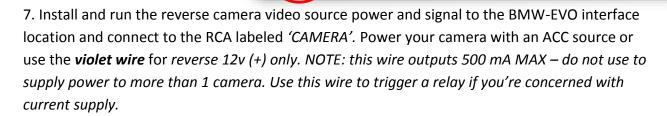
4. Replace the lower dash panel (with iDrive knob) back to sub-dash.

5. Disconnect the OEM screen LVDS video cable and connect it to the port on the BMW12-N

labeled 'LCD-IN'.



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.



- 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**.



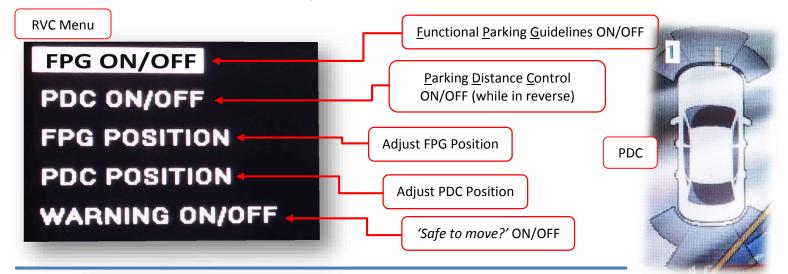


Menu Adjustments

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).





NAVI AV SET INFO BI-CALL 9 Sec V-MOVION FRON CAM O = M FCAM VIDEO-ADJ NAVI AV SET INFO AV1-SEL AV2-SEL AV3-SEL AV3-DSP AV3-DSP

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

SET – FRON CAM must be turned on if adding a *front camera* **and the user wishes for 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.

If the user wants only an AUX video input without front camera, set AV1-SEL to ON

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:



- 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 4 times, then press POWER.
- 4. Navigate to the 'NAVI' section.
 - a. Select 'HDMI-SEL'
 - b. Choose 'HD95E'
 - 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.
- 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 7 for a connection diagram.





BMW-EVO Installation Diagram From OEM To Screen screen cable From **HDMI** Source HDMI **HD-LINK Adapter** Power/CAN Harness Required for HDMI Input Optional Video (NTV-KIT800) trigger (selectable via OSD menu) Audio OUTPUT Cut off white Molex Connector. Connect ACC (red: 12v acc) & Ground (black: [-]) (HD-LINK) CAMERA Intercept OEM Reverse trigger T-Harness iDRIVE knob output 12v(+) power harness (4-PIN) for From OEM AVIN harness power & CAN data Reverse Camera AUX/Front Camera

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.

