



Screen Connector

HS RC-BW24

BMW SERIE 1(F20) - 2(F22) - 3(F30) - 4(F32) 5(F10) - 6(F12) 7(F01) - X1(E84) - X3(F25) X4(F26) - X5(F15) - X6(F16) **MINI COOPER SERIE F56**

INTERFACCIA RETROCAMERA INGRESSI AUDIO VIDEO PREDISPOSIZIONE GPS E ANDROID (CONNETTORE TONDO LVDS 6 PIN)





Overview

The kit interfaces 2 video inputs (including a backup camera) to the factory media screen in select 2012+ BMWs with the 6-pin video connector (at the screen). This interface generates steering-based guidelines while in reverse for added convenience.



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Interface Connectors



Dip SW:	1	2	3	4	5	6	7	8	9	10
UP	KEEP	SKIPS	SKIPS	RVC	N/A	N/A	CAN	HIGH	VEH	KEEP
	UP	V1	V2	OFF			SETTING	RES	SETTING	DOWN
DOWN	KEEP	ENABLES	ENABLES	RVC	N/A	N/A	CAN	LOW	VEH	KEEP
	UP	V1	V2	ON			SETTING	RES	SETTING	DOWN



2013: 1 & 3 series 8.8" screen



2014: 1 series 6.5" screen



2014+: 3, 5, 7 series 10.2″ screen



2014: MINI 8.8″ screen



6.5" screen



2015: X-series 8.8", 10.2" screen



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



Interface Installation (5 Series example)

- 1. -N intercepts *two OEM harnesses 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.



7. Install and run the reverse camera video source power and signal to the BMW12-N 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 BMW12-N interface labeled 'AVIN'.

7. After DIP switch settings have been set (see page 2), connect the 24-PIN power connector to the BMW12-N interface labeled *'POWER CAN'*. Proceed to *Menu Options* section if necessary (front camera settings, etc) or to *BMW12-N 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 <u>4 times</u> (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).







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.







-N 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 activation using factory buttons.



