

NAV-TV

INTERFACING THE FUTURE

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RGBA8 Kit (MMi)

NTV-KIT039



Overview

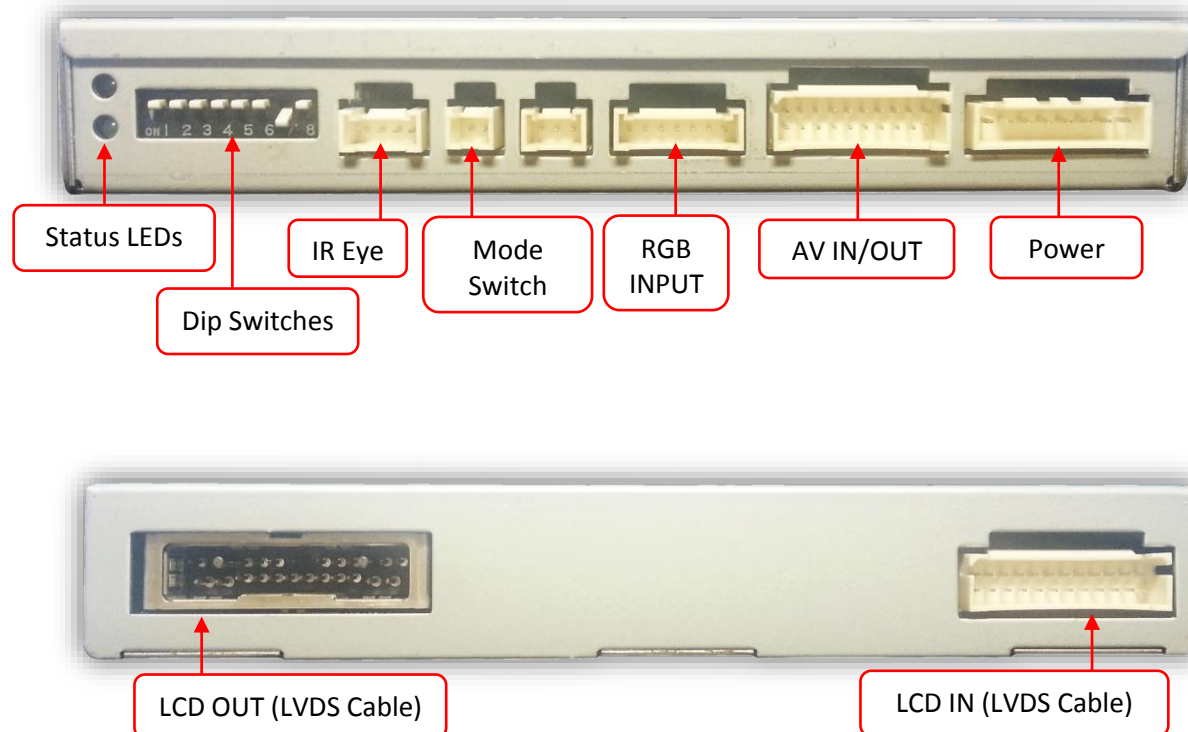
The RGBA8 kit allows the user to add up to 3 video inputs and a backup camera input to the factory media screen in select A6, A8 and Q7 Audi's. This kit connects at the radio (behind the glove box). The kit comes with an external toggle switch and if desired, forced rear camera action is an option.

Kit Contents



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Interface Connectors



Dip Switch Settings

Dip SW:	1	2	3	4	5	6	7	8
UP	Enables RGB	Enables V1	Enables V2	Enables V3	N/A	N/A	Deactivates R/V (cam)	Without factory NAV
DOWN	Skips RGB	Skips V1	Skips V2	Skips V3	N/A	N/A	Activates R/V (cam)	With factory NAV



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

Installation

1. Begin by removing the glove box. This usually requires removing Torx screws underneath, inside and on the passenger side of the unit.
2. From the RGBA8 kit, gather the power harness. Connect the **black** wire to a clean chassis ground.
3. From the same harness, connect the **red** wire to a true 12v (+) Accessory or Ignition source. This can usually be found at the fuse box.
4. The **gray** wire from the power harness must be connected to a (+) reverse signal. *When this wire receives 12v, the interface will display the video being fed to the RCA labeled 'R-CAM' on the AV-Harness.*



5. Find the MMi module, it is a metal box secured near the firewall.
6. Remove any brackets that prevent you from accessing the cables from the MMi module.
7. Remove the following LVDS connector from the MMi module (see picture at right):
8. Connect this **factory** cable to the port on the RGBA8 interface labeled '**LCD-OUT**'.



9. Gather the LVDS Cable provided with the RGBA8 kit. Connect the white end of this cable to the RGBA8 interface labeled '**LCD-IN**'.
10. Connect the other end of the provided LVDS cable to the MMi module in the same port where the factory LVDS cable was removed previously (step 7).



11. Connect the AV Input cable to the port on the RGBA8 interface labeled '**AV IN/OUT**'. If you're only connecting a reverse camera (and no other inputs), the signal input from the camera must connect to the RCA labeled '**R-CAM**'. Refer to the dip-switch settings chart to skip/enable AV sources upon toggle switch presses (optional. Page 2).



12. **Optional:** Connect the remote eye to the port labeled '**Remote**' and leave it in clear view of the driver (often it can be stuck inside a vent). This connection would be necessary if you want to be able to adjust anything from the RGBA8 interface's menu.
- While in any AV mode other than factory** (on the display screen), press the **MENU** button for **Menu 1** , or hold the **left arrow** to enter **MENU 2**.
 - To switch between AV modes, press the '**OK**' button.



13. **Optional:** Connect the provided momentary toggle switch to the port on the RGBA8 interface labeled '**MODE**'. Pressing this switch with the ignition on will cycle the screen modes as follows: **factory screen > NAVI (RGB) > AV1 > AV2 > AV3 > factory screen**.



14. Connect the RGBA8 **Power Harness** to the interface at the port labeled '**POWER**'. Start the car and test for proper functionality before securing the interface properly and replacing dash pieces.

- 15. 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.*

Menu Adjustments

Before you start:

- Make sure the car's ignition is on and radio is booted/settled
- You must be in '**NAVI**' (**RGB**), '**AV1**', '**AV2**' or '**AV3**' mode (on display screen)
- Use the remote '**OK**' button to switch modes, or use the provided input toggle switch
- Hold the **LEFT ARROW** for 3 seconds. The **Menu of FACTORY** will appear on screen.

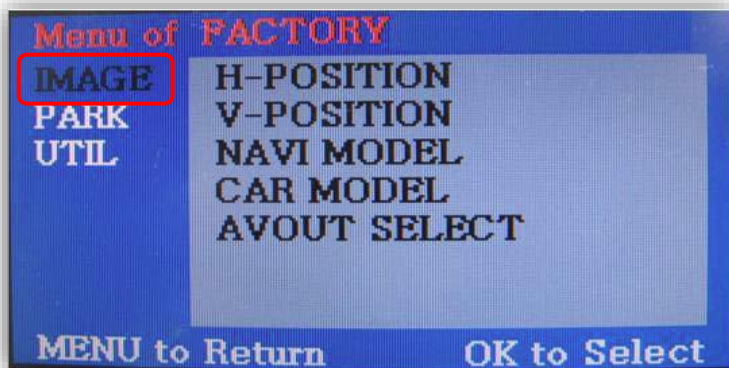


IMAGE MENU

- The only setting that may need necessary adjustment here would be **CAR MODEL** (BMW/AUDI KITS)
Note: on some kits, this option is located under 'UTIL'
- The remaining settings are optional and install dependent.



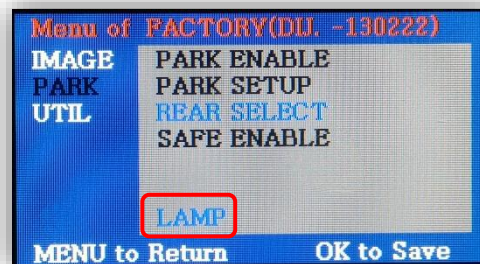
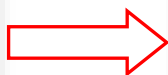
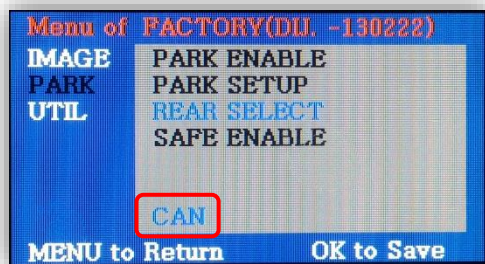
PARK MENU

- PARK ENABLE:** Rear-CAM guidelines ON/OFF
- PARK SETUP:** Rear-CAM guideline positioning
- REAR SELECT:** Change *rear camera activation* from CAN to LAMP (gray wire) *Note: on some kits, this option is located under 'UTIL'*
- SAFE ENABLE:** If '**ON**', prevents AV sources from showing (unless you ground **Blue 'PARKING' wire**)

1

Rear-Select CAN to LAMP adjustment

2



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FAQs

Q. I cannot switch A/V sources.

A. Check IR or toggle switch connection. Check the LEDs on the interface, if nothing is lit up with vehicle ignition, check power/ground connections.

Q. All I see on the display is a black screen (no factory image pass-through).

A. Make sure the video cables (IN/OUT) are connected at the proper location (Screen/Radio/NAV DRIVE).

B. Make sure the video cables are seated all the way.

C. Make sure Dip Switches 5 & 6 are set correctly (resolution or screen size).

Q. Displayed image color is not proper (too dim or color seems wrong).

A. Try to select 'INITIAL' in OSD menu.

Q. Rear camera image does NOT appear.

A. Make certain Dip Switch #7 in set **down** for aftermarket camera, or **up** for a factory camera.

B. Try swapping the CAN connection wires. This will not do damage, if it is hooked up wrong it will only not work.

C. Make certain the camera is properly powered. Check voltage **at the camera itself**.

D. Try an alternative video source, don't assume the power/ground is correct unless you've checked it **with a multi-meter!**

E. If this is a CAN-connected module and you've connected the CAN wires, try using the gray wire (*not all interfaces have this wire!*) instead of the CAN connection for reverse activation. You'll also need to change the **Rear Select** option in the **Menu of Factory (MENU 2)** under **UTIL** or **PARK**. Refer to the **Menu Adjustments** section.

Q. Unwanted A/V mode is displayed upon a toggle press (A/V source switching order: OEM->RGB->AV1->AV2->AV3->OEM).

A. Check DIP Switch Setting. Refer to page 2.