

# NAV-TV

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BHM  
01/04/19  
NTV-DOC339

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## RGB-VWv2

NTV-KIT906



### Overview

The RGB-VWv2 adds an aftermarket backup camera to the factory navigation screen in select Volkswagen vehicles. A secondary video input is included on the RGB module and can be viewed at any time by supplying power to an input wire (optional).

### Kit Content

RGB Power Harness  
NTV-HAR324



Remote Control  
NTV-REM004



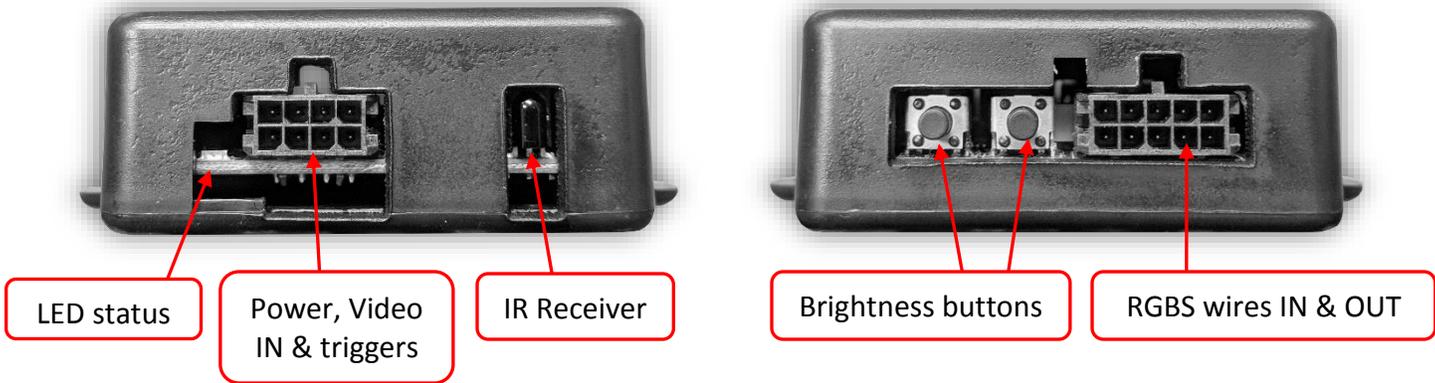
RGB Converter  
NTV-ASY254



RGB-VWv2  
Video Harness  
NTV-HAR335



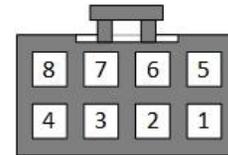
RGB-VWv2 Interface Connectors



RGB-VWv2 Pin Out

PIN #	Description	Color
1	Ground (-)	Black
2	INPUT 2 (AUX VIDEO)	White/Blue
3	Shield (VIDEO 2)	Black
4	Signal (VIDEO 2)	Yellow
5	12v (+) ACC IN	Red
6	INTPUT 1 (CAM VIDEO)	White/Red
7	Shield (VIDEO 1)	Black
8	Signal (VIDEO 1)	Yellow

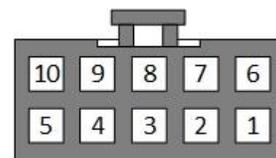
**Power Harness**



Wire Side

PIN #	Description	Color
1	RGB Ground	Black/Shield
2	SYNC (screen)	Gray
3	Blue Signal (screen)	Blue
4	Red Signal (screen)	Red
5	Green Signal (screen)	Green
6	RGB Ground	Shield
7	SYNC (radio/NAV)	Brown
8	Blue Signal (radio/NAV)	Purple
9	Red Signal (radio/NAV)	Orange
10	Green Signal (radio/NAV)	Yellow

**RGB Video Harness**

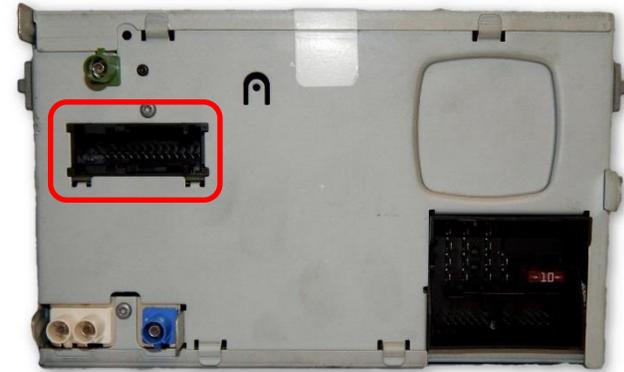


Wire Side

## RGB-VWv2 Installation

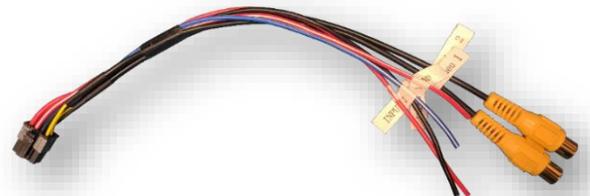
*NOTE: VW's must be programmed for reverse camera with a VAG-COMM (Ross Tech) in order to use this harness.*

1. Remove the factory RNS navigation radio from the dash.
2. Connect the provided RGB-VWv2 harness to the RGB connector on the RNS radio.
3. Connect the other end of the harness to the RGBv2 module at the 10-PIN connector.



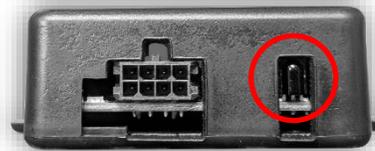
## RGB-VWv2 Power Connections

1. From the provided **RGB Power Harness**, connect the **black wire** to chassis ground (-) and the **red wire with the white/blue wire** to an ACC 12v (+) source (cigarette lighter, etc).
2. For VW, the reverse sensing is automatic through the radio. The **VIDEO 2 RCA** input must be used for camera signal. *NOTE: VW's have no option for adding a secondary (AUX) video source.*

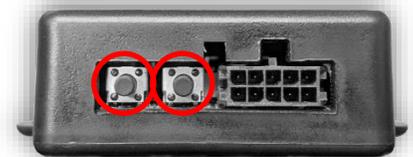


## RGB-VWv2 Remote Control / Brightness Setting

- The RGBv2 uses a (provided) remote for the following optional adjustments:
  - Arrow keys adjust (shifts) VIDEO 1 or 2 image *LEFT, RIGHT, UP & DOWN (OEM pass through image is not adjustable)*
  - Zoom/Page arrows adjust brightness
  - Pressing *MENU>MAP>BACK* (in order) will *default all settings*.



- To adjust brightness of VIDEO 1 or 2 image, use the buttons on the RGB side of the module and adjust to suit. *NOTE: when completing install, mount the RGBv2 module so that the buttons are not being pressed.*



## RGB-VWv2 Operation

After all connections are properly made:

- When the vehicle is placed into reverse (white/red wire on the interface receives 12v +), the navigation screen will switch to **Video 1** source (reverse camera).
- In any other gear (but reverse) toggling the white/blue wire (12v (+) to the white/blue wire) will switch the factory navigation screen to **Video 2** source\*.