NAV-TV
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RGB-LEXv2

NTV-KIT904

Overview

The RGB-LEXv2 adds an aftermarket backup camera to the factory navigation screen in select Lexus 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
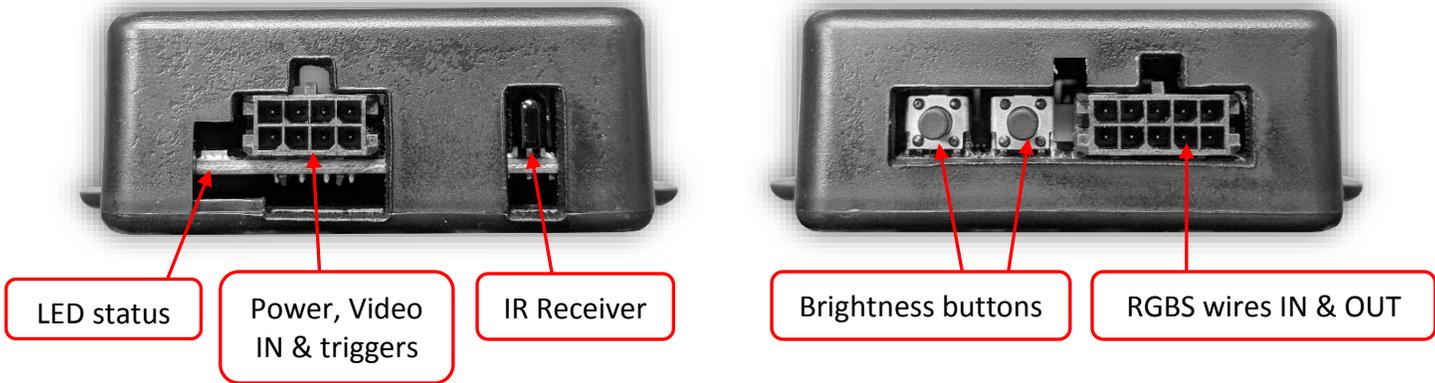*NTV-REM004*

RGB Converter
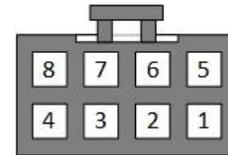*NTV-ASY254*

RGB-LEXv2 Video Harness
NTV-HAR323

RGB-LEXv2 Interface Connectors

LED status

Power, Video IN & triggers

IR Receiver

Brightness buttons

RGBS wires IN & OUT

RGB-LEXv2 Pin Out

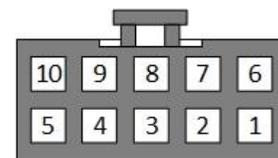| PIN #	Description	Color
1	Ground (-)	Black
2	INPUT 2 (AUX VIDEO)	White/Blue
3	Shield (VIDEO 2)	Black
4	Signal (VIDEO 2)	Yellow
5	12v (+) ACC IN	Red
6	INTPUT 1 (CAM VIDEO)	White/Red
7	Shield (VIDEO 1)	Black
8	Signal (VIDEO 1)	Yellow

Power Harness

Wire Side

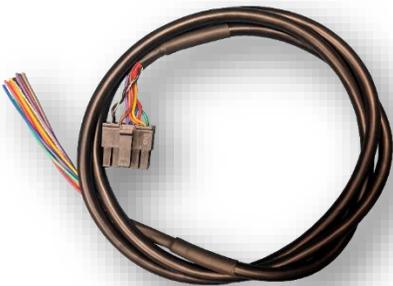| PIN #	Description	Color
1	RGB Ground	Black/Shield
2	SYNC (screen)	Gray
3	Blue Signal (screen)	Blue
4	Red Signal (screen)	Red
5	Green Signal (screen)	Green
6	RGB Ground	Shield
7	SYNC (radio/NAV)	Brown
8	Blue Signal (radio/NAV)	Purple
9	Red Signal (radio/NAV)	Orange
10	Green Signal (radio/NAV)	Yellow

RGB Video Harness

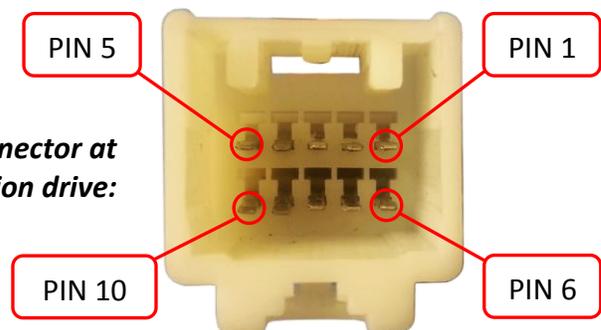*Wire Side*

RGB-LEXv2 Installation

1. Locate the factory navigation drive. These can usually be found in the trunk, glove compartment or under the passenger seat. Disconnect all connected harnesses before cutting any wires.

2. From the provided **RGB Video Harness** and refer to the chart below for your specific vehicle RGBS pin outs. (If your vehicle is not listed, contact NAV-TV tech support at 561-955-9770 for vehicle specific diagrams)

3. Cut the **Red, Green, Blue and Sync wires** in **half (one at a time).** Refer to the diagram on page 3 and make connections. **Note: RGB Ground should not be cut. Splice the ground leads to the RGB ground (or other ground).** Note 2: While these pin locations should be accurate, we recommend testing each wire! Refer to video if unsure: https://www.youtube.com/watch?v=mAKbOZSv1Uo

Year(s)	Make	Model	Red Signal	Green Signal	Blue Signal	Sync Wire	RGB Ground
ALL*	ALL*	ALL*	PIN 2	PIN 7	PIN 3	PIN 8	PIN 6
1998-2000	Lexus	GS300	PIN 1	PIN 4	PIN 5	PIN 2	PIN 7
1998-2000	Lexus	GS400	PIN 8	PIN 7	PIN 6	PIN2	PIN 5

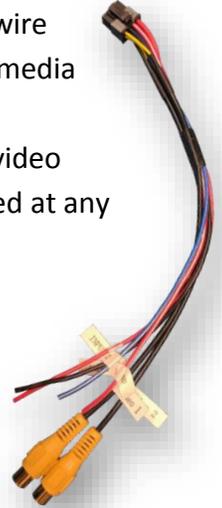*All RGB-LEXv2 *compatible Toyota/Lexus* models

PIN 5   PIN 1

Factory connector at Navigation drive:
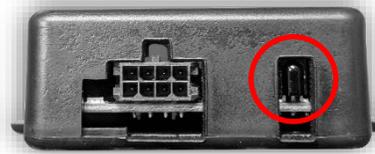
PIN 10   PIN 6

RGB-LEXv2 Power Connections

1. From the provided **RGB Power Harness**, connect the **black wire** to chassis ground (-) and the **red wire** to an ACC 12v (+) source (cigarette lighter, etc).
2. Connect the **white/red wire** (*INPUT 1*) to a 12v (+) reverse wire. Any time this wire receives 12v (+), the video signal provided to **VIDEO 1** will be displayed on the media screen (while in NAV mode from the radio).
3. **Optional:** If adding a secondary AUX Video source to this vehicle, connect the video signal RCA to the **VIDEO 2** port on the *Power Harness*. This source can be viewed at any time when the **white/blue** (*INPUT 2*) wire receives 12v (+).
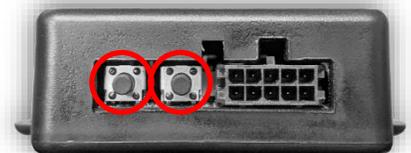
RGB-LEXv2 Remote Control / Brightness Setting

- 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-LEXv2 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*.