NAV-TV
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Standard & Full Featured

FLIR-XG Controller
NTV-KIT474/491

Overview

The FLIR-XG Controller provides a wide range of color options and controllability for your FLIR camera.

Kit Contents

FLIR-XG Controller Harness
NTV-HAR253

FLIR-XG Controller
NTV-ASY197

Included with KIT491 only

Push Button
NTV-CAB074

USB Cable (updates)
NTV-CAB009

Toggle Switch
NTV-CAB075

Module Pin Outs

Pin #	Description	Color
1	12v (+) ACC INPUT	Yellow
2	(Input 1) Zoom	Red
3	(Input 2) Palette Preset	Blue
4	(Input 3) Palette Scroll	Pink
10	Ground (-) INPUT	Black
14	FLIR Control	Brown/Red

Wire side

FLIR-XG Programming*

Requires proprietary USB Updater to access user options.

1. The FLIR-XG Controller must be programmed to suit your application and personal preferences. Download the FLIR Updater from http://www.navtv.com/page/19/downloads.html.

2. If you've never updated a NAV-TV XG module, you'll need to install the proper drivers. Watch the first video on the top of the *downloads* page and follow the procedure.

3. Open the FLIR Updater (FLIR-USBUpdater.exe) and connect the FLIR Controller with the provided USB cable. Within a few seconds, the 'USB Device' field should populate with *'FLIR Controller'* followed by a date.

4. Press the 3 dots at the top right to select the file again and point to the directory where you downloaded the software from the NAV-TV website.

5. Open the file labeled *'FlIR Controller-04-10-14.enc'*. When you do this, the parameters field should fill with options:
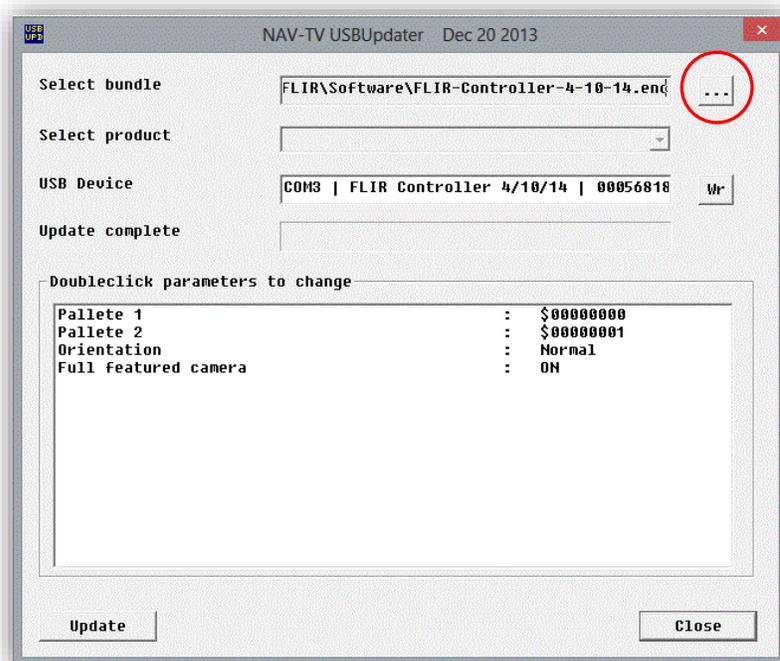
6. If you have a Standard FLIR camera, your color palette options are limited to **White HOT**. With a full featured FLIR camera: Upon double clicking **Palette 1**, you will have the option to adjust the color interpretation for HOT vs. COLD from the FLIR camera.

- o Click the drop down arrow and adjust to suit your preference.
- o Press **'OK'** after you've made a choice.
- o Repeat step 6 for **Palette 2**. Normally, **Palette 1** is active. When you supply 12v to *PIN 3*, **Palette 2** settings will display.
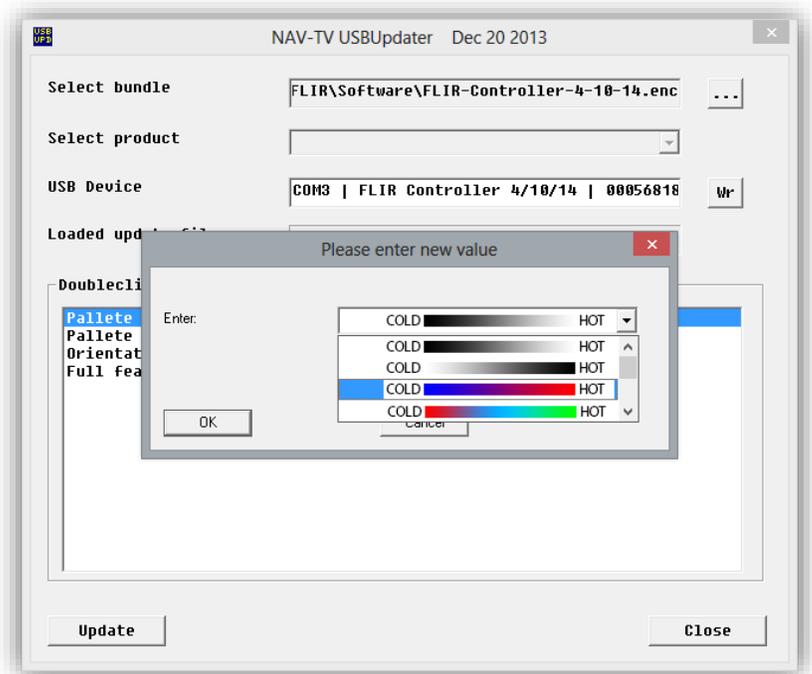
7. The **Orientation** parameter is used for FLIR camera installation convenience. When double clicking **Orientation**, a window will appear with a dropdown allowing you to select your specific FLIR display orientation.

FLIR camera mounted normally
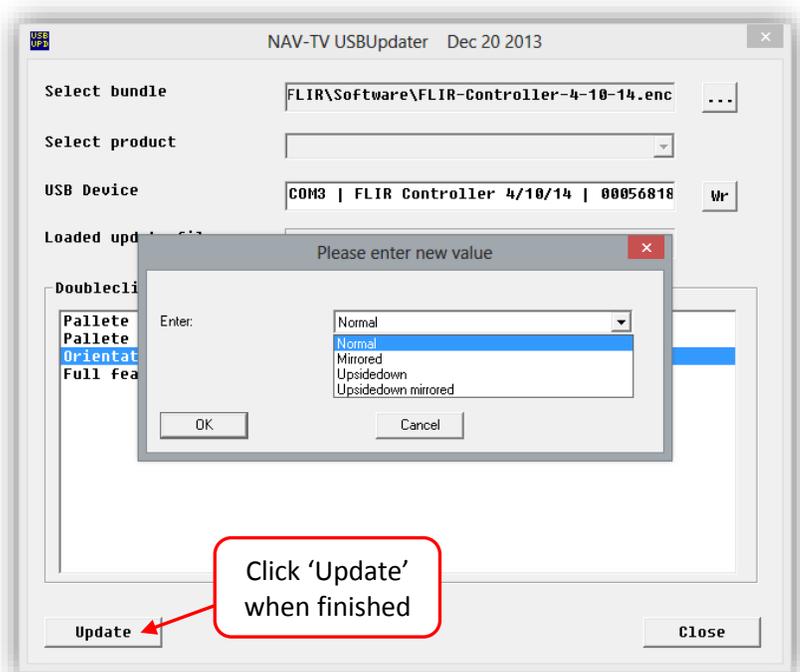
Click 'Update' when finished

8. The **Full featured camera** parameter is only used for provisioning the FLIR XG controller, but must be set to **ON** for a FLIR Full Featured camera installation.

Installation & Operation

1. From the provided **FLIR-XG Controller Harness**, connect the following wires to the vehicle:

FLIR Harness PIN:	Color	Connect to:
10	Black	Ground (-)
1	Yellow	12v (+) ACC
14	Brown/Red	FLIR **control wire**

2. The **Red wire** (input 1, pin 2) is used for 2x zoom. When you provide this wire with 12v (+), the camera will zoom in. This wire is commonly connected to a high-beam (+) trigger so it will activate whenever high beam headlights are active.

3. The **Blue wire** (input 2, pin 3) is used for switching between **preset palettes** (see programming, page 3). Connect this wire to a 12v source **through the provided toggle switch**. Normally, without 12v sent to this wire, the FLIR camera will show preset **Palette 1** colors. When you send 12v (+) to this wire, your custom-selected **Palette 2** colors will display (see programming, page 3).

4. The **Pink wire** (input 3, pin 4) is used for **Palette Preset 2 Scrolling**. When this wire receives 12v (+) signal **through the provided momentary switch**, the FLIR camera will scroll through all available colors.*
*Note: the **Blue wire** must see 12v (+) in order for **Palette Scrolling** to operate. When returning to **Palette 2** from **Palette 1,** the color it was left on will be displayed.

5. Connect the 18-pin plug to the FLIR-XG and test the unit for proper operation.

FAQs

Q1. When I turn on the FLIR, the screen is PINK.

A1. If you are using a standard FLIR, be sure 'Full Feature' is off. Standard FLIR doesn't support color palette including black HOT.

Q2. When using the palette scroll and I shut down the system, the color palette choice is not retained.

A2. Once the unit is powered down, the color palette returns to the selected preset in the updater.

Q3. When I try to update the FLIR XG controller, the configurable options are not available.

A3. You must use the provided FLIR-specific USB Updater that is in the download package to view the configurable options.