# NAV-TV
### INTERFACING THE FUTURE
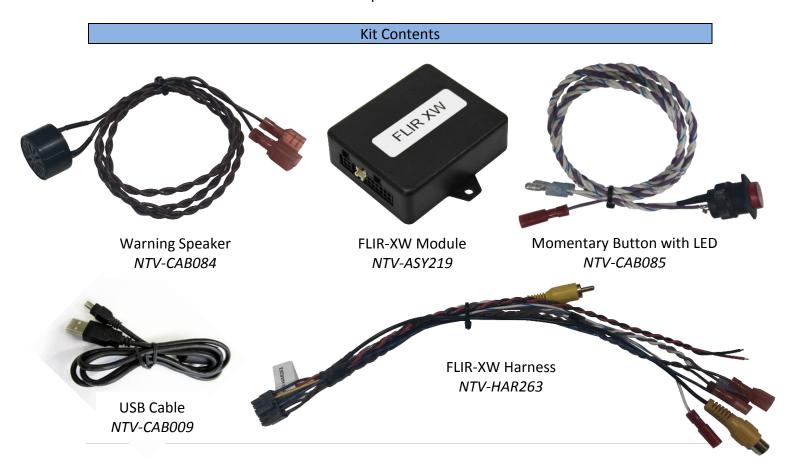
3950 NW 120th Ave, Coral Springs, FL 33065 TEL 561-955-9770 FAX 561-955-9760
www.nav-tv.com      info@nav-tv.com

# *FLIR-XW*
### *NTV-KIT588*



## Overview

The FLIR-XW (External Warning) provides an audible tone and an LED flash during object detection circumstances from your *FLIR PathfindIR II Object Detect* camera. Audible feedback can be user-silenced with the included LED-push button.

## Kit Contents



**Warning Speaker**
*NTV-CAB084*

**FLIR-XW Module**
*NTV-ASY219*

**Momentary Button with LED**
*NTV-CAB085*



**USB Cable**
*NTV-CAB009*
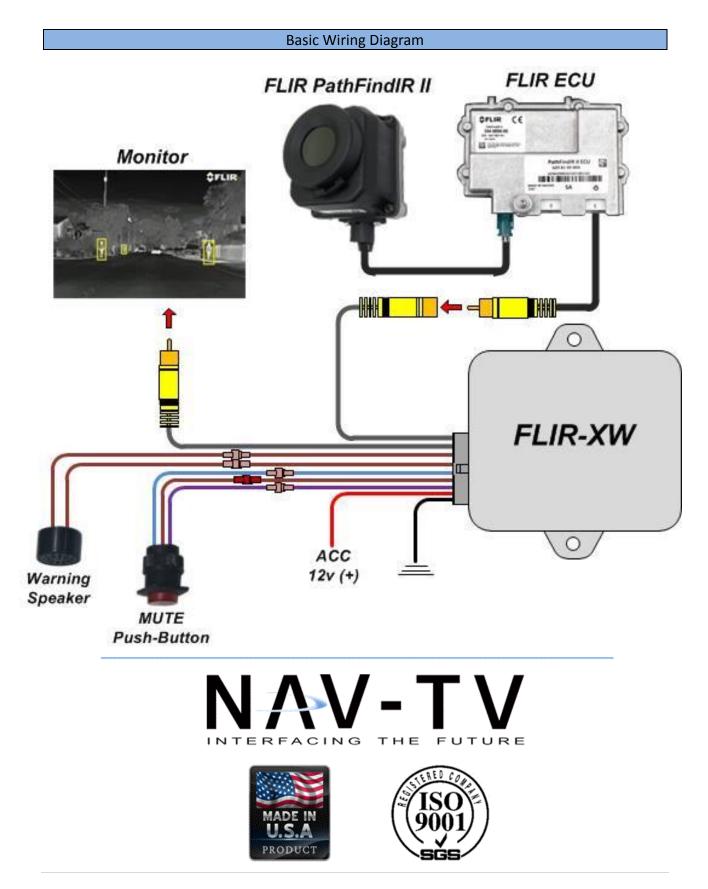
**FLIR-XW Harness**
*NTV-HAR263*

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

| Module Pin Outs |
|:---:|

| Pin # | Description | Color |
|:---:|:---:|:---:|
| 1 | ACC 12v Input | Red |
| 2 | OUTPUT 1 (XW LED) | White/Blue |
| 3 | *MUTE IN (button)(-)* | White/Purple |
| 4 | Ground OUTPUT *(button)* | Purple |
| 5 | Video OUT RCA Signal | -Clear- |
| 6 | Video OUT RCA Shield | Gray |
| 7 | Ground (-) | Black |
| 8 | Video IN RCA Signal | Yellow |
| 9 | Video IN RCA Shield | Gray |
| 10 | N/A | -- |
| 11 | Speaker Signal | Brown/Red |
| 12 | Speaker Ground | Brown |

**Not Used**

| 12 | 11 | 10 | 9 | 8 | 7 |
|:---:|:---:|:---:|:---:|:---:|:---:|
| 6 | 5 | 4 | 3 | 2 | 1 |

**Wire side**

| FLIR-XW Installation |
|:---:|

1. From the provided **FLIR XW Power Harness**, connect the following wires to the vehicle:
    a. **Black wire** to chassis ground (-)
    b. **Red wire** to accessory 12v (+) source
2. Connect the **signal RCA** from the *FLIR ECU* to the **female RCA** on the FLIR XW harness.
3. Connect the **male RCA** from the *FLIR-XW* harness to the monitor's composite signal input.
4. Choose a mounting location for the included **Momentary button** and drill a 5/8" hole (as always, check for clearance before drilling!)
5. Mount the button and run the harness down inside the dash to the (3x) crimped connectors. Connect all 3 wires together (color for color).
6. Mount the provided **Warning Speaker** somewhere high in the dashboard so that the user will hear it. Run the wires to the FLIR-XW location and connect the (2x) crimped connectors together (color for color).
7. *Optional:* Splice **OUTPUT 1** wire (White/Blue, already connected to the button LED) for triggering something when a pedestrian or animal is detected via the FLIR, for instance:
    - Triggering a video switcher or interface (forced wire) to automatically display FLIR II image on a monitor

- Any time the FLIR II camera detects an animal or pedestrian (any time a yellow box is detected), the following takes place:
  - LED will emit from the LED-button
  - Tone will sound from the warning speaker
  - *OUTPUT 1* sends 12v (+) for as long as the object is detected/yellow box is shown (this wire is tied to the LED normally)
- ***Press MUTE Button (1x)*** to immediately mute the warning sound *for that single object detection circumstance.*
  - The sound from the XW speaker will continue to stay muted for 10 consecutive seconds without an additional object detected. If an object is detected within the 10 seconds, the XW will stay muted (for heavily populated areas)
  - The LED will illuminate when an object is detected by the FLIR II. If the warning (sound) is muted, the LED will continue to illuminate until 10 consecutive seconds have passed without an object detection. *If the LED output wire was spliced to trigger an external monitor (optional), the image will display as long as the LED is on.*

- ***Press and HOLD MUTE Button*** (~2 seconds)***: DETECTION DISABLE:*** the speaker will tone twice, *and stay muted until the next key cycle*.  This feature can be reset without a key cycle by pressing and releasing the MUTE button again.

## Basic Wiring Diagram



**FLIR PathFindIR II**

**FLIR ECU**

**Monitor**

**FLIR-XW**

**Warning Speaker**

**MUTE Push-Button**

**ACC 12v (+)**

# NAV-TV
### INTERFACING THE FUTURE

MADE IN U.S.A PRODUCT

ISO 9001 REGISTERED COMPANY SGS