





### **INTERFACE COMPONENTS**

- AXAC-FD1 interface
- AXAC-FD1 interface harness
- AXAC-FD1 vehicle harness (qty. 2)
- 12-pin T-harness
- 54-pin T-harness

# Ford\* Camera Interface with Pre-Wired Harness

**2011–2023** • With either a 4.2-inch, 6.5-inch, or 8-inch display screen **Note:** Only compatible with NTSC cameras.

Visit <u>AxxessInterfaces.com</u> for more detailed information about the product and up-to-date vehicle specific applications

### **INTERFACE FEATURES**

- (4) Camera inputs\*\*
- Reverse signal trigger generated via CAN bus communication of the vehicle
- Turn signal trigger generated via CAN bus communication of the vehicle
- (4) Programmable camera control wires
- USB Micro-B updatable

\*\*Models equipped with NAV can only use front and rear camera inputs

**Note:** AXAC-FDSTK (sold separately) required for 2014-Up models with a 4.2-inch display screen.

### **TOOLS REQUIRED**

- Crimping tool and connectors, or solder gun, solder, and heat shrink
- Tape
- Wire cutter
- Zip-ties



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### **REQUIRED ITEMS**

Update Cable: AXUSB-MCBL (sold separately) Supplemental Harness\*: AX-ADDCAM-FDSTK (sold separately) Axxess Updater Program \*2014-Up models with 4.2-inch display screen only

ATTENTION: With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product. NOTE: Refer also to the instructions included with the aftermarket radio.

APPLICATIONS (see next page)

## INTRODUCTION

## CONFIGURATION

The **AXAC-FD1** is a camera switching interface that provides:

- A front camera, and/or side cameras that can be added to the factory radio.
- Up to (3) additional camera inputs to the factory radio, while still retaining the factory camera.
- Automatic camera function, no human interaction is required, unless desired.
- Up to (4) cameras, if the vehicle doesn't come equipped with a backup camera.

Note: Axxess recommends cameras from the iBEAM product line for best results.

# **APPLICATIONS**

#### Ford

Bronco Sport AXAC-FD1	2022-2023
Bronco AXAC-FD1	2022-2023
Escape AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2013-2022
Edge AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2011-2020
F-150/250 AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2013-2020
Focus AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2012-2018
Fusion AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2013-2019
Maverick AXAC-FD1	2022-2023
Mustang AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2015-2023
Ranger AXAC-FD1 4.2" / 8" Display Models	2019-2023
Transit AXAC-FD1 4.2" / 6.5" Display Models	
Transit Connect AXAC-FD1 4.2" / 8" (or 6.5") Display Models	2015-2018



- Download and install the Axxess Updater available at: <u>AxxessInterfaces.com</u>
- Connect the **AXUSB-MCBL** update cable (sold separately) between the interface and the computer. The cable will connect into the micro-B USB port in the interface.
- Open the Axxess Updater and wait until the word "Ready" is listed in the bottom left of the screen.
- Select Add-Cam Configuration.

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## **CONFIGURATION** (CONT.)

🚳 Add-Cam Configuration - Axxess	Updater	– 🗆 X
	800000000	
Vehicle		********
856666666666666666	566666666666666666666666666666666666666	566666666666666666666666666666666666666
	Select Vehicle	
82828282828282828	2200000000	
2525252525252555	Year V	
	Make	
	Model	
	Options	
25252525252525252		
68686868686868686		
2525252525252525252		5959595959595959595
82828282828282828		282828282828282
Read Configuration	Write Configuration	Main Menu
20000000000	000000000	0-0-0-0-0-0-0-0-0
Ready		

• Select the vehicle in the drop down list. A tab labeled **Configuration** will appear after the vehicle has been selected.

Add-Cam Config	uration - Axxess	Updater	8-8-8-8-8	- 1515-5-5-5	× □ 8888
ehicle Configuration					
Camera 1	****	*****	Camera 2	XXXXX	****
Trigger Source	Reverse	~	Trigger Source	Disable	~
8888	33-8-8-	38888	133333	88888	888
Camera 3			Camera 4 (Front C	amera)	
Trigger Source	Disable	~	Trigger Source	Disable	~
			123.823		
Other Settings	<del>2222</del>	8888		XXXXX	2222
Switched 12V with	Disable	~~88			
	Disable Accessory Out	88			33333
		8-8-8-8			33333
00000	2000	2000	XXXX		000
Read Confi	guration	Write Co	nfiguration	Main M	lenu
		0000	00000	00000	<del>KXXXX</del>

- Under Configuration, configure the (4) video trigger inputs to the desired settings.\*
- Once all selections have been configured, press Write Configuration to save the settings.
- Unplug the update cable from the interface and computer.

\*Refer to the next page for more information.

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## **CONFIGURATION** (CONT.)

### Video trigger legend

- Disable (will turn off the input)
- Backup Camera (dedicated backup camera)
- Left Blinker (will be used for activation)
- Right Blinker (will be used for activation)
- Control 1 (positive trigger activation)
- Control 1 (negative trigger activation)
- Control 2 (positive trigger activation)

- Control 2 (negative trigger activation)
- Control 3 (positive trigger activation)
- Control 3 (negative trigger activation)
- Control 4 (positive trigger activation)
- Control 4 (negative trigger activation)
- Auto (Reverse -> Drive) will activate once that sequence is seen.
- Note: Only available for video trigger 4.

### Video trigger description

- **Reverse camera:** Dedicated by default to **Video Trigger 1**. Will activate the backup camera while the vehicle is in reverse.
- Left blinker: Activation of the left turn signal will activate the left camera.
- **Right blinker:** Activation of the right turn signal will activate the right camera.
- Auto (reverse -> drive): Available only for Video Trigger 4, when installing a front camera. With this feature selected, the camera will activate automatically once a reverse-then-drive sequence is seen from the vehicle. Example of this scenario would be while parallel parking the vehicle. As an alternative, a control wire can be used instead to manually activate the camera.

**Note:** Auto (Reverse -> Drive) will disable the camera once 15 MPH is reached. A control wire activated will also disable the camera.

**Note:** If the control wire is activated while driving, the camera will activate and deactivate during stop-and-go traffic.

 Control 1-4 (positive or negative) trigger activation wires: Can be used as a positive or negative trigger to manually activate a camera via a toggle switch, or similar device.

# **Other Settings**

### Switched 12v with

- **Disable:** Turns off the 12v from the camera 12v (**Red**) wire
- Accessory Out: Accessory Out:

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## **CONFIGURATION** (CONT.)

### Configuration for models without a factory camera:

- Configure the AXAC-FD1 in the Axxess Updater first. In the Axxess Updater there will be an option box labeled "OEM Programming" under the "Configuration" tab after the vehicle type has been entered. Check this box to allow the AXAC-FD1 to configure the camera settings for the vehicle. (Figure A)
- Turn the key (or push-to-start button) to the ignition position and wait until the L.E.D. inside the **AX-ADDCAM interface** comes on. The radio will reboot and may show a diagnostic screen during this process.

**Note:** If the L.E.D. in the interface doesn't come on within a few seconds, yet blinks instead, turn the key to the off position, disconnect the interface, check all connections, reconnect the interface, and then try again.

**Note:** Ensure that the **Video 1 input** in the interface is set to "reverse camera".

Add-Cam Configuration - Axxe	ss Updater	- 🗆 ×
Help		
Vehicle Configuration		
Camera 1	Camera 2	
Trigger Source Reverse	✓ Trigger Source	Disable 🗸 🗸
- Camera 3	Camera 4 (Fron	t Camera)
Trigger Source Disable	✓ Trigger Source	
Other Settings	*********	
Switched 12V with Disable		ramming
**********		
Dead Configuration	Write Configuration	Main Monu
	white conliguration	
Ready		

(Figure A)

## CONNECTIONS

**Attention!** Two different harnesses are provided, one for models with a 4.2-inch display screen radio (12-pin T-harness), the other for models with an 8-inch display screen radio (54-pin T- harness). Use the appropriate harness and discard the other. The harness will connect at the display screen.

For models with a factory backup camera, the camera's signal will need to be interrupted and reconnected:

- Connect the RCA jack from the **AXAC-FD1 vehicle harness** labeled **"Camera input"**, to the RCA jack from the **AXAC-FD1 interface harness** labeled **"Camera output"**.
- Connect the RCA jack from the AXAC-FD1 vehicle harness labeled "Camera output", to the RCA jack from the AXAC-FD1 interface harness labeled "Camera 1".
- Disregard the following (3) wires: Blue/Green, Green/Blue, Red

### For models without a factory backup camera:

- Connect the RCA jack from the **AXAC-FD1 vehicle harness** labeled **"Camera input"**, to the RCA jack from the **AXAC-FD1 interface harness** labeled **"Camera output"**.
- Connect the RCA jack from the **AXAC-FD1 interface harness** labeled **"Camera 1"**, to the aftermarket backup camera.
- Disregard the RCA jack labeled "Camera output" from the AXAC-FD1 vehicle harness.
- Connect the Red wire from the AXAC-FD1 interface harness labeled "Camera 12V", to the power wire from the aftermarket backup camera.
- Disregard the following (2) wires: Blue/Green, Green/Blue

#### **Camera Input:**

Camera 1	Backup camera input
Camera 2	Left or right camera, user assignable
Camera 3	Left or right camera, user assignable
Camera 4	Front camera

### Analaog control trigger wires:

The (optional) analog control wire can be used with either a negative or positive trigger, depending on how it is configured in the Axxess Backup Camera Updater. This wire will only be used for manual control of the camera, otherwise disregard the wire.

Wire Color
Gray/Blue
Gray/Red
Orange
Orange/White

### Blue/Black and Blue/Red input wires (12-pin T-harness):

These wires are only for use with the **AXAC-FDSTK** (sold separately) for 2014-Up models. Refer to the **AXAC-FDSTK** instructions for wiring.



## INSTALLATION

### With the ignition cycled off:

- 1. Remove the harness from the factory radio display, then install the **AXAC-FD1 vehicle harness** in between.
- 2. Connect the AXAC-FD1 vehicle harness to the AXAC-FD1 interface harness.
- 3. Connect the AXAC-FD1 interface harness to the AXAC-FD1 interface.
- 4. Make sure the camera(s) is connected to the appropriate input.
- **5.** Make sure the interface has been configured beforehand as shown in the Configuration section. Failure to configure the interface will result in the interface not functioning properly.



## PROGRAMMING

**1.** Cycle the ignition on and wait until the LED in the interface comes on.

**Note:** If the LED doesn't come on within a few seconds, yet blinks instead, turn the key to the off position, disconnect the interface, check all connections, reconnect the interface, and then try again.

2. Test all functions of the installation for proper operation.





Having difficulties? We're here to help.



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