



Sensor Setup Guide for Van's, RV's, & Trailers

Bench test all components before permanently mounting

Helpful videos to get you started



**Setup and bench test
of sensor system**



**Delivery Van walk
through**

Step by Step Van/RV Guide without Cameras



1. Rear Sensors

- Mount 4 sensors on the top rear and 4 on the bottom rear.
- Daisy-chain sensors #8 → #1 using the sensor harnesses.
- Use the 15ft (5M) bridge cable between Sensor #5 and #4 to jump from roof sensors to bumper sensors.
- After chaining all sensors, run the 35ft cable from Sensor #1 to the front and plug it into the “Sensors Input” on the Sensor Brain.

2. Internal Alert Speaker

- Mount the speaker in the cabin and plug it into the “Sound Output” port.

3. Power Connections (Sensor Brain)

- **Red** → Reverse (+)
- **Black** → Ground (-)
- **Yellow** → ACC / Ignition (+) (Standard rear install)
- OR
- **White** → ACC / Ignition (+) (Ignore rear step / hitch / attachments)

Note: if installing on a tractor trailer the sensor chain will need to connect to a quick disconnect harness on the trailer



Ver 1.6

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Step by Step Van/RV Guide with Cameras

1. Install the Rear Parking Sensors

- Evenly distribute four sensors along the top and four along the bottom of the rear
- of the vehicle. Begin at Sensor #8 and daisy-chain the sensors using the included sensor harnesses until you reach Sensor #1.

Important: Between Sensor #5 and Sensor #4, use the 15ft (5M) cable to bridge the distance between the roof-mounted and bumper-mounted sensors.

2. Connect the Sensor Chain to the Sensor Brain

- Route the 35ft sensor cable from Sensor #1 through the vehicle toward the front.
- Plug it into the “Sensors Input” port on the Sensor Brain, typically mounted under the dashboard.

3. Install the Rear Camera

- Mount the rear roof camera—top center is recommended for optimal visibility.
- Run the second 35ft camera cable to the front and connect it to the “Camera Input” on the Sensor Brain.

4. Install the Side Cameras

- Mount the driver-side and passenger-side cameras in the recommended locations shown in the diagram.
- Route each 18ft camera cable to the Sensor Brain location and leave them accessible for connection.

5. Mount and Power the Monitor

- Install the monitor in the desired location. Most installers use the included metal U-bracket to secure it to the ceiling for easy viewing.
- Connect the monitor harness to the back of the screen and route it toward the Sensor Brain.

Note:

The monitor must be connected to power using the included positive, negative, and optional trigger wires.

Connecting trigger wires allows the system to automatically switch to the corresponding camera when turning, signaling, or reversing.

When a trigger wire is activated, that channel/camera will automatically switch to full screen.

6. Connect the Monitor to the Sensor Brain

- Use a 4-Pin Aviator cable to connect the Sensor Brain’s “**Monitor Output**” to Channel 1 on the monitor harness.
- This enables sensor overlay and distance information on Channel 1.

Connect the side cameras:

Channel 3 → Driver-side camera

Channel 4 → Passenger-side camera

Channel 2 may be used for an optional front-facing camera.

7. Install the Internal Alert Speaker

- Mount the Internal Alert Speaker in a suitable location inside the cabin for clear audible warnings.
- Route its cable to the Sensor Brain and plug it into the “**Internal Alert Speaker / Sound Output**” port.

8. Connect Power to the Sensor Brain

- Attach the Power Harness to the Sensor Brain.

Connect:

Red wire → Reverse trigger (+)

Black wire → Ground (–)

Yellow wire → ACC / Ignition (+) (Standard rear install)

OR

White wire → ACC / Ignition (+) (Ignore rear step / hitch / attachments)

Camera-Optional Configuration

If installing sensors only, you may skip all steps related to cameras and the monitor trigger wiring.

Step by Step Van/RV Guide



Commercial Sensors with Overlay



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Diagram for a Van or RV Setup



1. Rear Sensors

- Mount 4 sensors on the top rear and 4 on the bottom rear.
- Daisy-chain sensors #8 → #1 using the sensor harnesses.
- Use the 15ft (5M) bridge cable between Sensor #5 and #4 to jump from roof sensors to bumper sensors.
- After chaining all sensors, run the 35ft cable from Sensor #1 to the front and plug it into the "Sensors Input" on the Sensor Brain.

2. Rear Camera

- Mount the rear camera (top-center recommended).
- Route the second 35ft cable to the front and plug into "Camera Input" in the sensor brain, this will activate the overlay

3. Side Cameras

- Mount driver and passenger side cameras (see placement diagram).
- Run each 18ft camera cable to the Sensor Brain area.

4. Monitor Installation

- Mount the monitor using the included U-bracket.
- Connect the monitor harness and route it to the Sensor Brain.
- Use a 4-Inch Aviator cable to connect "Monitor Output" → Channel 1 (enables sensor overlay).
- Connect side cameras to CH3 and CH4.
- CH2 is for an optional front camera.
- Connect monitor power Red to 12V, Yellow to ACC, Black to ground (-).
- Trigger wires automatically switch the selected camera to full-screen.

5. Internal Alert Speaker

- Mount the speaker in the cabin and plug it into the "Sound Output" port.

6. Power Connections (Sensor Brain)

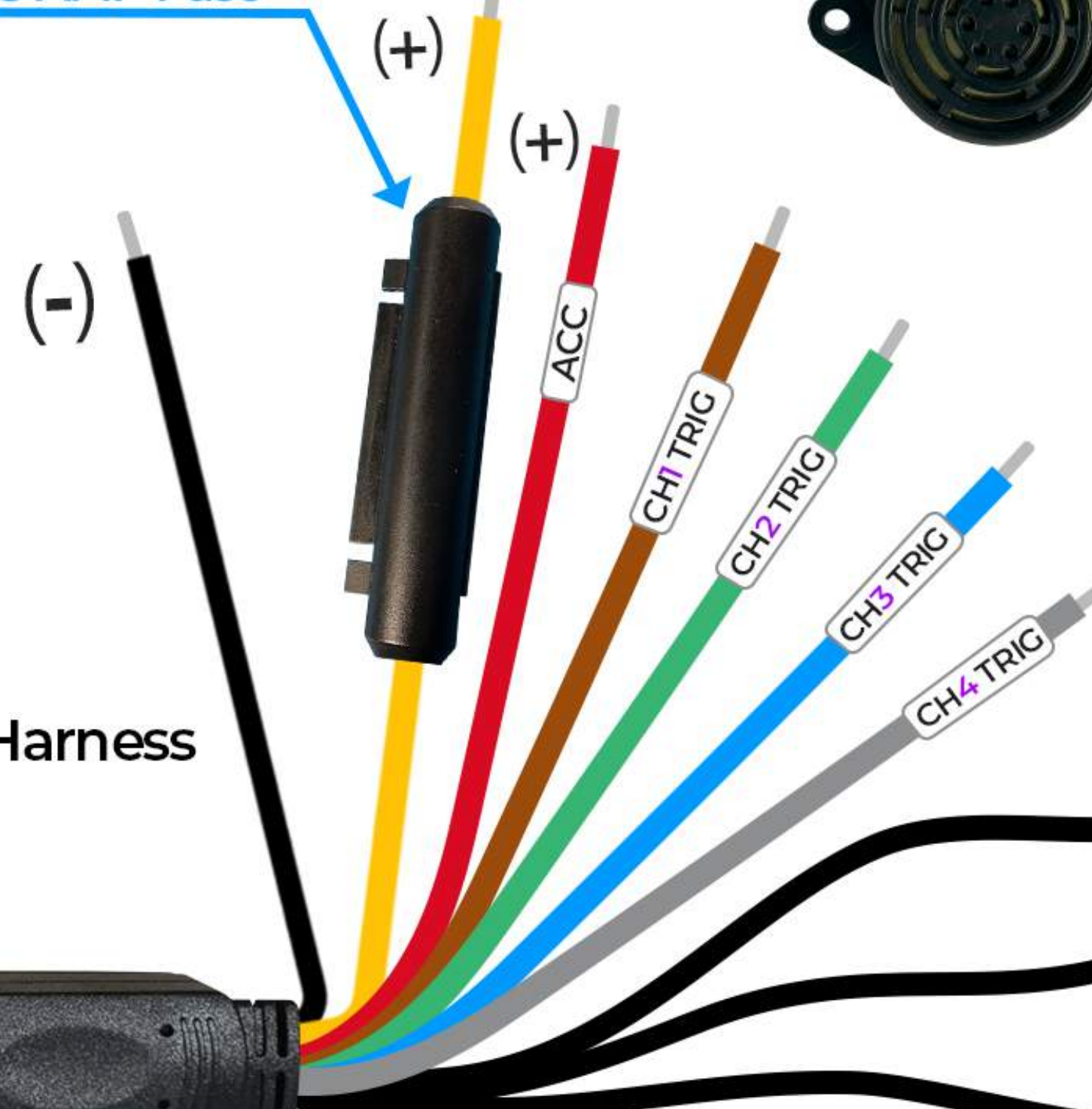
- **Red** → Reverse (+)
- **Black** → Ground (-)
- **Yellow** → ACC / Ignition (+) (Standard rear install)
- OR
- **White** → ACC / Ignition (+) (Ignore rear step / hitch / attachments)



Note: if installing on a tractor trailer the rear camera and the sensor chain will need to connect to a quick disconnect harness on the trailer



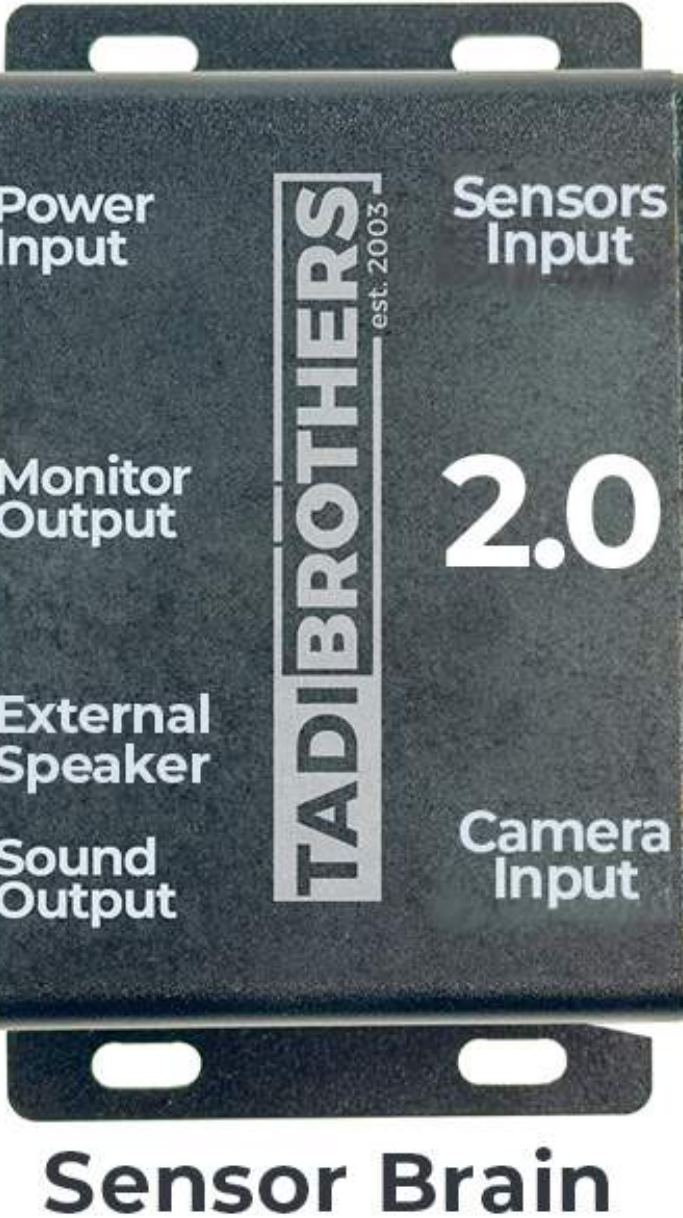
This uses a 3 AMP Fuse



Power Harness

4-Inch Aviator Cable

Speaker



Sensor Brain

35ft Cable

35ft Cable

Driver Side

Passenger Side

Front Facing (Optional)

Note: Camera styles may vary

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Whats in the box for the Van/RV System



Sensor Bracket



Support Nut



4-inch
Monitor Cable



Alert Speaker



Parking Sensors



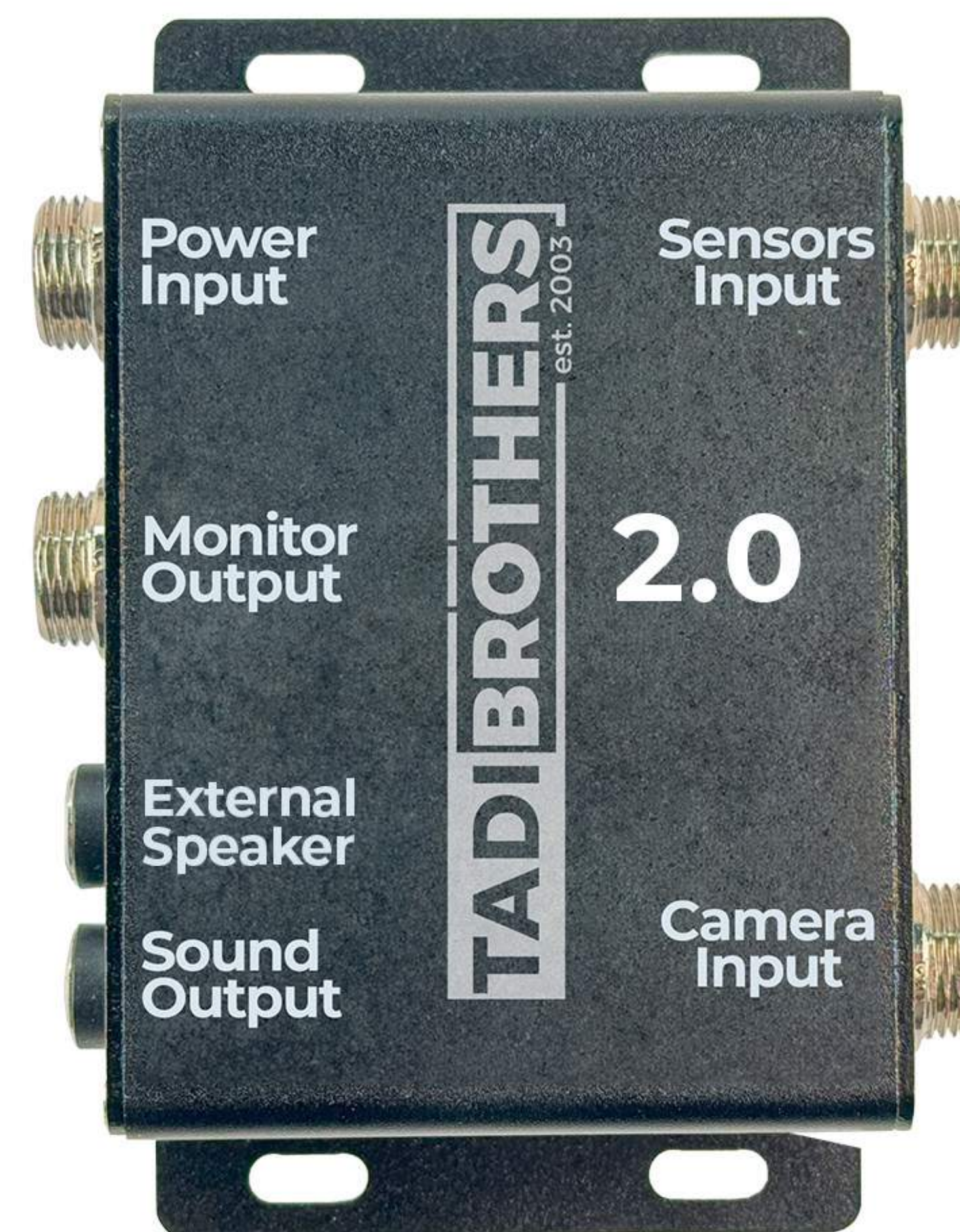
Rubber Grommet



Metal Screws



35ft Cable



Sensor Brain



Sensor Harness

Step by Step Trailer Guide

1. Install the Rear Parking Sensors on the Trailer

- Evenly distribute four sensors along the top and four along the bottom of the rear of the trailer.
- Daisy-chain the sensors #8 → #1 using the included sensor harnesses.

- Important:** Between Sensor #5 and Sensor #4, use the 15ft (5M) bridge cable to connect the top sensor row to the bottom row.
- After chaining all sensors, run the 35ft cable from Sensor #1 forward to the trailer bulkhead.

Trailer-to-Tractor Quick Disconnect

At the front of the trailer, install a coiled quick-disconnect harness. This allows the trailer to be reattached quickly.

- Trailer side → connects to the sensor chain coming from Sensor #1
- Tractor side → runs forward into the cab and plugs into the “Sensors Input” port on the Sensor Brain

2. Install the Rear Camera (Trailer)

- Mount the rear camera on the trailer (top center recommended).
- Route the second 35ft camera cable to the same bulkhead location.
- Connect this camera cable to a free channel on quick-disconnect.

Tractor side of the coil → plugs into the “Camera Input” on the Sensor Brain.

3. Install the Side Cameras (Tractor)

- Mount driver-side and passenger-side cameras on the tractor. Run each 18ft camera cable to the Sensor Brain location in the cab.

4. Mount and Power the Monitor (Tractor Cab)

- Mount screen with the included metal U-bracket or Trim for a flush mount.
- Connect the monitor harness and route it to the Sensor Brain.

Note:

The monitor must be connected to power (12-36V), including optional trigger wires for signaling.

When a trigger wire is activated, the selected channel/camera will automatically switch to full screen.

5. Connect the Monitor to the Sensor Brain

- Use a 4-Pin Aviator cable to connect “Monitor Output” → Channel 1 (enables radar overlay).

Side cameras:

CH3 → Driver side
CH4 → Passenger side

CH2 is available for an optional front camera or a rear tractor camera for hitching on the tractor.

6. Install the Internal Alert Speaker (Tractor Cab)

- Mount the internal speaker in the tractor cab where the driver can hear it clearly.
- Plug it into the “Internal Alert Speaker / Sound Output” port on the Sensor Brain.

7. Connect Power to the Sensor Brain (Tractor Cab)

- Attach the Power Harness to the Sensor Brain.

Connect:

Red wire → Reverse trigger (+)

Black wire → Ground (–)

Yellow wire → ACC / Ignition (+) (Standard rear install)

OR

White wire → ACC / Ignition (+) (Ignore rear step / hitch / attachments)

Camera-Optional Setup

If the trailer will use sensors only, you may skip all camera-related steps and only run the sensor chain through the quick-disconnect.



**Quick Disconnect
(Coiled Cable)**

Diagram for a Trailer Setup



Sensors For Trailers

1. On the trailer side, distribute 4 **Parking Sensors** evenly across the bottom of the bumper.
(Mount extra sensors evenly across the top if needed.)
2. Plug the **Parking Sensors** to the **Sensor Harness**.
Use 1 harness for each sensor and daisy chain them to the next sensor.
3. Connect the **Sensor Harness** to the **35-Foot Cable** and thread it from rear of the trailer to the front and leave the cable dangling in an easy to reach spot for the **Quick Disconnect**.
4. On the truck side, thread the 2nd **35-Foot Cable** from an easy to access spot in the rear to the front of the truck ending where the **Sensor Brain** will be mounted.
5. Mount the **Speaker/Display** at its designated location, thread its cable to the **Sensor Brain**, and plug it in.
6. Attach the **Power Harness** to the **Sensor Brain**, then connect the **Red** and **Yellow** wires to the reverse trigger (+) and the **Black** wire to the ground (-).
7. If installing a camera, connect it to the "camera input" on the **Sensor Brain**.
8. After mounting the monitor, connect its camera cable to the screen's input, then thread it back to the **Sensor Brain** and plug it into the "monitor output" socket.
9. Once installed, attach the trailer to the truck and then use the **Quick Disconnect (Coiled Cable)** to connect the rear sensor to the truck.



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Commercial Trailer Sensors
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Whats in the box for the Trailer System



Support Nut

Sensor Bracket



Rubber Grommet



Metal Screws



4-inch
Monitor Cable



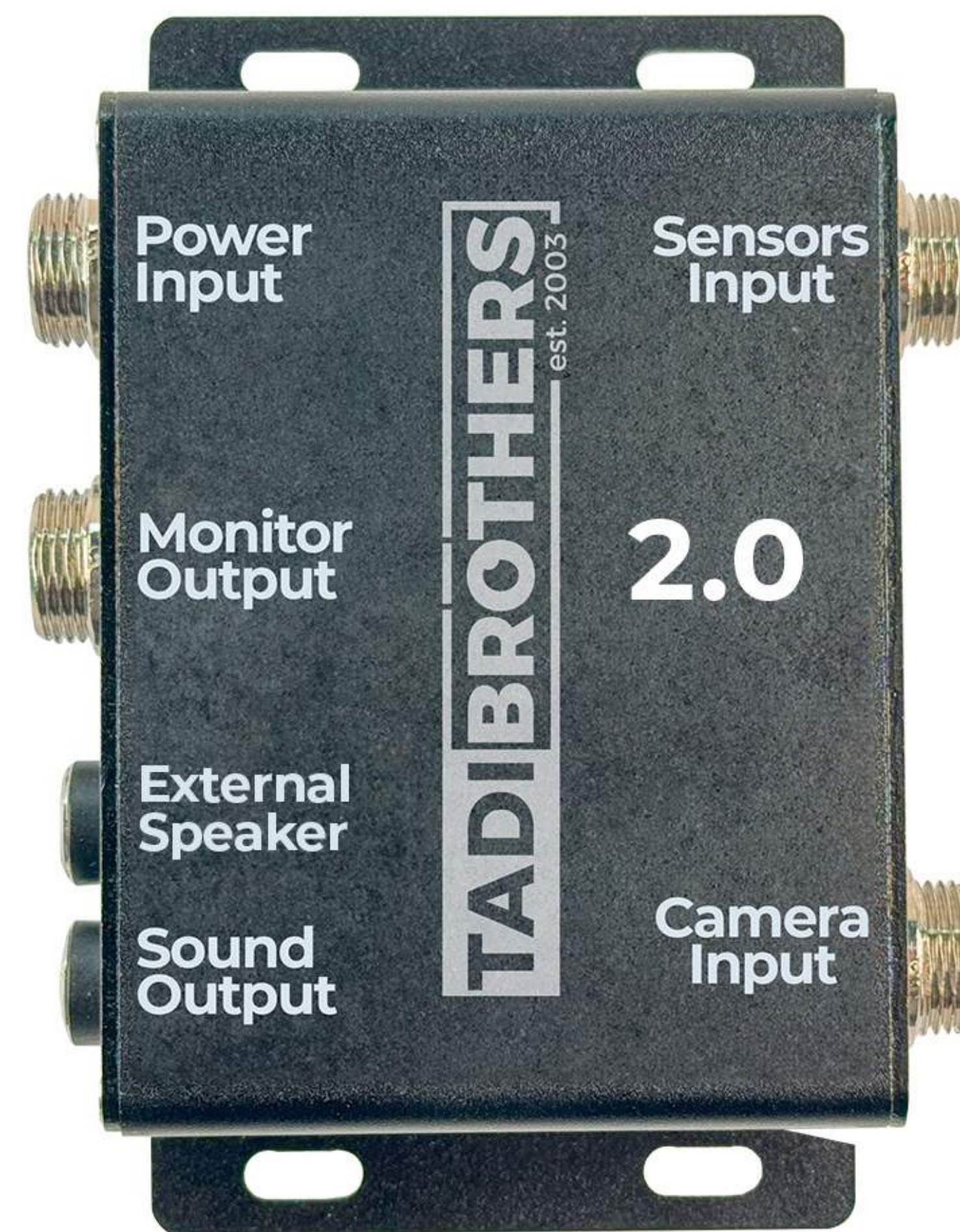
Quick Disconnect
(Coiled Cable)



Parking Sensors



35ft Cable X 2



Sensor Brain

Alert Speaker



Sensor Harness

Sensor Dimensions



Width (Outside) Width (Inside)
1.2 in 1.0 in
30 mm 26 mm

Depth
1.6 in
40 mm



More Information

TadiBrothers Warranty & Protection Policy

This TadiBrothers product comes with a **1-year standard warranty** and a **30-day money back guarantee**.

Within 30 days, you can return the product for a full refund or exchange.



Extended warranties purchased from TadiBrothers offer full coverage on defects for the length of the warranty. If an extended warranty claim is needed, simply return the item for a replacement. Most replacements are processed within 5-10 business days, though return shipping may apply in some cases.

Our extended protection plans cover accidental damage and more. Even if the damage is your fault, we'll replace the item with a new or refurbished product. If no replacement is available, you'll receive the newest version at no extra cost.

Read full return policy here:

<https://www.tadibrothers.com/returns>



For any issues, contact us:

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We back you up!

—The TadiBrothers Team

Notes

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