



# **Fleet 3 RADAR Integration User Guide**

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## Introduction

The Axon Fleet 3 solution is a purpose-built in-vehicle, AI-driven recording system for capturing audio and video in high-risk environments encountered by law enforcement, corrections, military, emergency medical services (EMS), and private security. The system records events for secure storage, retrieval, and analysis leveraging Axon Evidence services. Recordings transfer securely to Axon Evidence using LTE, Wi-Fi, or manual operations.

Fleet 3 typically consists of at least two cameras: one in the front of the vehicle in a windshield mount and the second pointed at the law enforcement vehicle's prisoner compartment. These cameras are connected to and controlled by the Fleet Hub, which can control additional cameras, such as for side views. Add an Axon Signal Vehicle device to automatically activate nearby Axon Body-Worn Cameras (BWC) during Fleet recording events.

## RADAR integration overview

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Axon Fleet 3 integrates with certain models of law enforcement Radio Detection and Ranging (RADAR) devices. These RADAR devices communicate with the Fleet 3 Hub to record target, patrol, and lock speeds in the Axon Evidence playback window, in addition to front or rear antenna selection. The hub communicates with the RADAR unit through a serial interface.

## Supported devices

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Axon Fleet 3 RADAR integration supports the following models:

- Kustom Signals Inc. Raptor RP-1
- Kustom Signals Inc. Eagle 3
- Kustom Signals Golden Eagle II
- Stalker Dual SL
- Stalker DSR
- Stalker DSR 2X

## Required hardware

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Purchase the correct RADAR interface cable from Axon:

| <b>RADAR</b>        | <b>Model</b>         | <b>Part Description</b>                            | <b>Length</b> | <b>SKU</b> |
|---------------------|----------------------|----------------------------------------------------|---------------|------------|
| Kustom Signals Inc. | Raptor RP-1, Eagle 3 | FLEET 3 HUB, RADAR CABLE, KUSTOM SIGNAL, RP1, E3   | 15 ft         | 100468     |
| Kustom Signals Inc. | Golden Eagle II      | FLEET 3 HUB, RADAR CABLE, KUSTOM SIGNAL, GE2       | 25 ft         | 100752     |
| Stalker             | Dual SL, DSR, DSR2X  | FLEET 3 HUB, RADAR CABLE KIT, STALKER DSR, DUAL SL | 25 ft         | 100807     |

## Installation

### Kustom Signals RADAR

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Follow the RADAR manufacturer's information to install RADAR equipment.

1. Identify the Axon Interface cable from the table in [Introduction](#) on page 2.
  - FLEET 3 HUB, RADAR CABLE, KUSTOM SIGNAL, RP1, E3, SKU 100468



- FLEET 3 HUB, RADAR CABLE, KUSTOM SIGNAL, GE2, SKU 100752

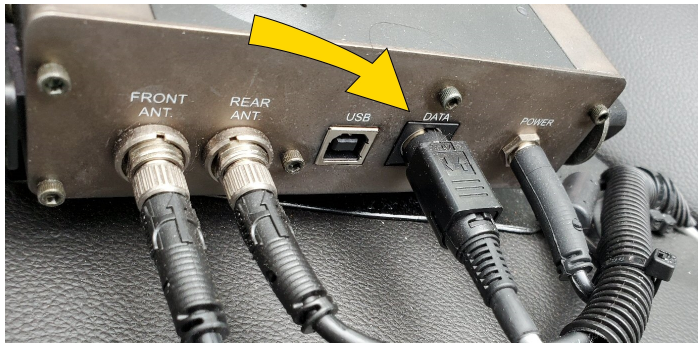


2. Insert the Kustom Signals Inc. serial interface cable into the data port on the rear of the RADAR unit.

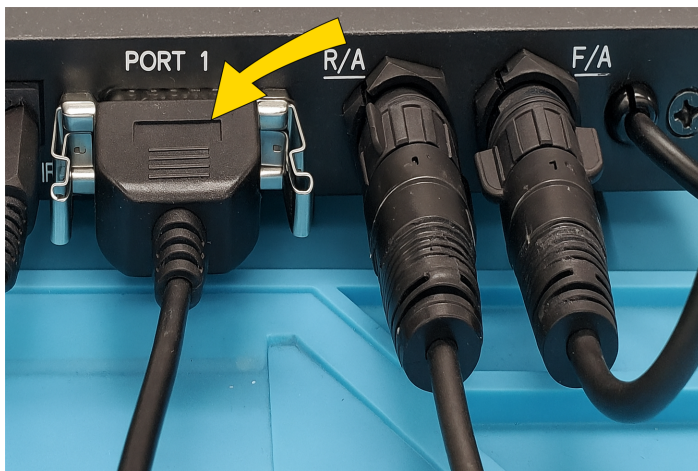
- Raptor RP-1:



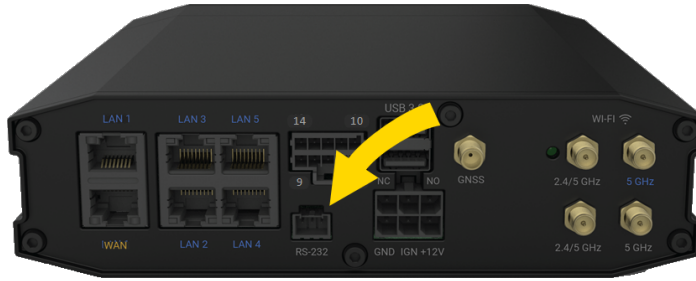
- Eagle 3:



- Golden Eagle II:



3. Connect the Axon RADAR interface cable to the RS-232 port on the rear of the hub.



## Stalker RADAR

Follow the RADAR manufacturer's information to install RADAR equipment.

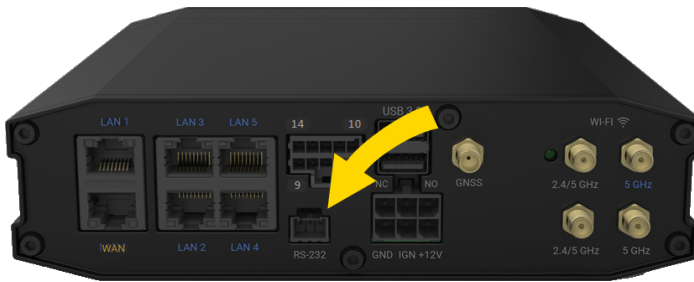
1. Identify the Axon Interface cable from the table in [Introduction](#) on page 2.
  - FLEET 3 HUB, RADAR CABLE KIT, STALKER DSR, DUAL SL, SKU 100807



2. Insert the female end of the Stalker serial interface Y-cable (on right above) into the data port on the rear of the RADAR unit.



3. Connect the Axon RADAR interface cable between one tail of the Y-cable and the RS-232 port on the rear of the hub.



4. Connect the other tail of the Y-cable to vehicle power/ground/VSS using the Stalker manufacturer harness.



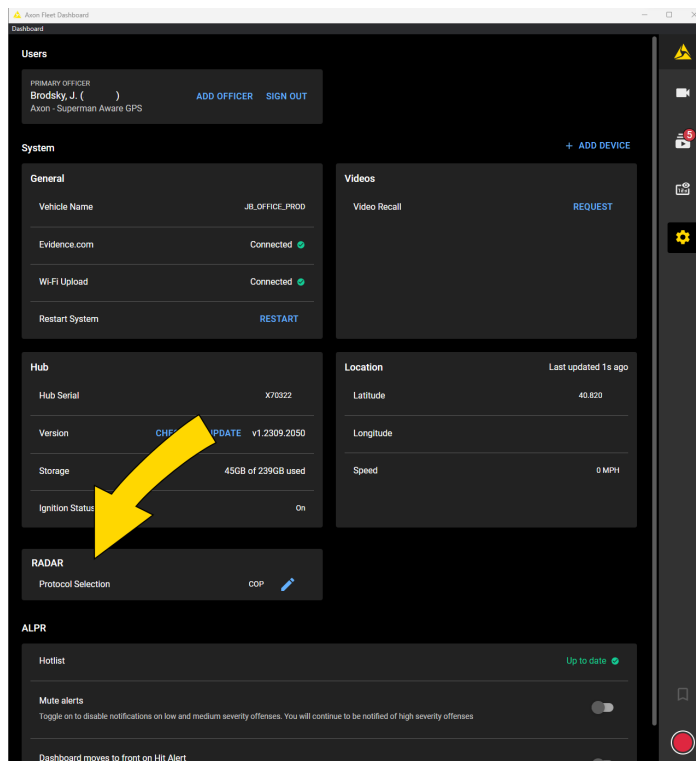
1. To Fleet 3 Hub
2. To vehicle power

## Software configuration

Fleet 3 RADAR integration requires minimal software configuration. The Fleet 3 Hub is continually polling for data from the connected RADAR device, ingests data as appropriate whenever a device is present.

### Dashboard protocol configuration

1. In Axon Dashboard, select RADAR.



2. Select one of the following:
  - a. For Kustom Signals RP-1, Eagle III, or Stalker Dual SL, DSR, or DSR2X, select **COP** (Common Output Protocol).
  - b. For Kustom Signals Golden Eagle II, select **Gateway**.
3. Select **Save**.

### Configure RADAR baud rate protocol

#### Kustom Signals RP-1, Eagle III, or Stalker Dual SL, DSR, or DSR2X

Refer to RADAR manufacturer documentation and set the RADAR baud rate to 19200, COP.

**Special note for Stalker DSR 2X**

This RADAR does not include an antenna mode within the RADAR protocol. Axon Evidence overlay architecture only supports one antenna data source at a time. To populate rear antenna data in the evidence overlay experience, place the front antenna in standby mode using **Hold** on the remote control.

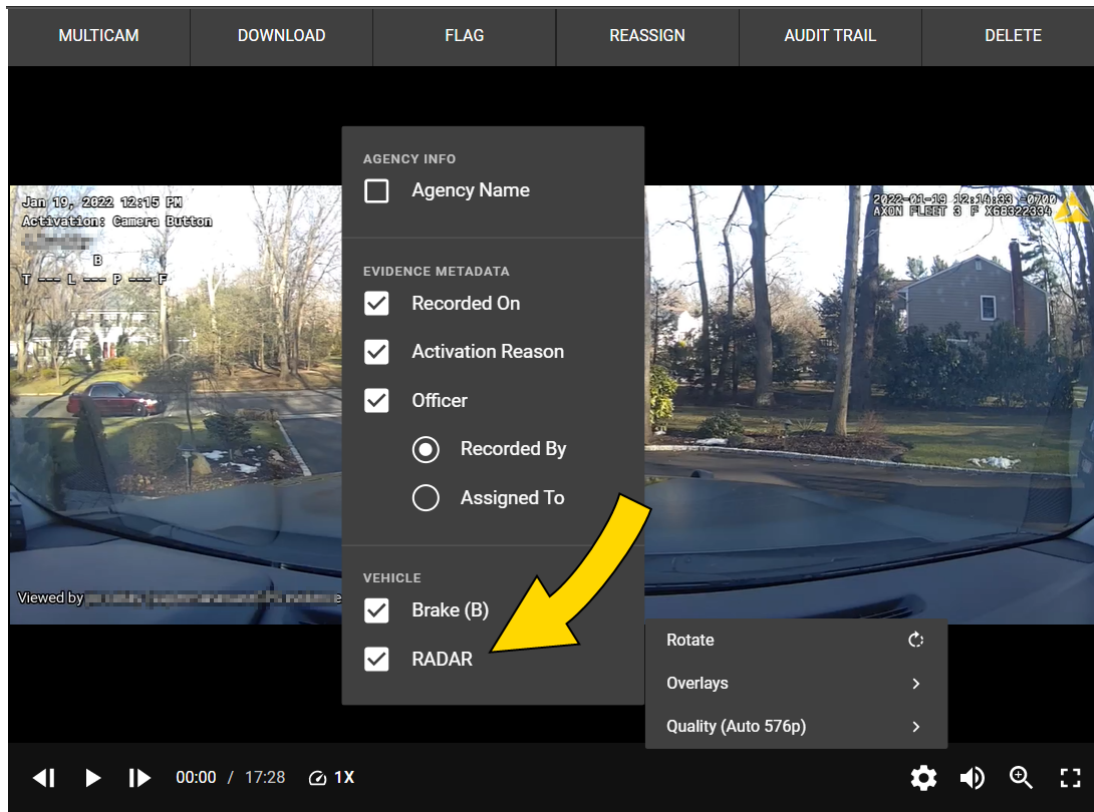
**Kustom Signals Golden Eagle II**

Confirm that the RADAR baud rate is set to 9600, Gateway. Refer to RADAR manufacturer documentation for instructions on setting the RADAR baud rate and protocol.

## User interfaces

### In-office: Axon Evidence

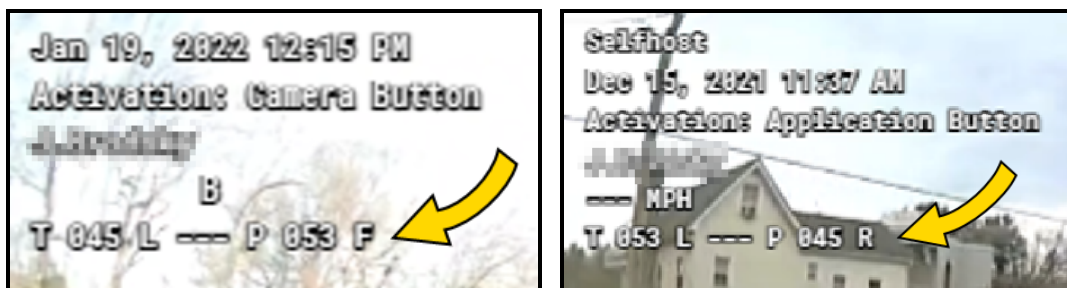
The RADAR overlay will be present on an Axon Evidence detail page for any Fleet 3 evidence file that includes RADAR data.



The evidence overlay shows the following RADAR data:

- **Target Speed (T)** – The speed of the detected vehicle
- **Lock Speed (L)** – The speed of the detected vehicle at the time of lock
- **Patrol Speed (P)** – The speed of the patrol vehicle (Vehicle Speed Sensor or GPS)
- **Antenna Selection (F) or (R)** – The antenna providing the reading

The following images show sample RADAR data:



Axon Evidence admins can choose to automatically display RADAR data in the evidence overlay.

1. In Axon Evidence select **Admin**.
2. Under Agency Settings, select **Evidence Playback Settings**.
3. In the **Vehicle** section, enable **RADAR**.

| Overlay      | Display format                                       | Display overlay by default                  |
|--------------|------------------------------------------------------|---------------------------------------------|
| Speed        | 000 MPH                                              | <input checked="" type="checkbox"/> Enabled |
| Lightbar (L) | L                                                    | <input checked="" type="checkbox"/> Enabled |
| Brakes (B)   | B                                                    | <input checked="" type="checkbox"/> Enabled |
| Siren (S)    | S                                                    | <input checked="" type="checkbox"/> Enabled |
| RADAR        | T (Target), L (Lock), P (Patrol), F (Front)/R (Rear) | <input type="checkbox"/> Disabled           |

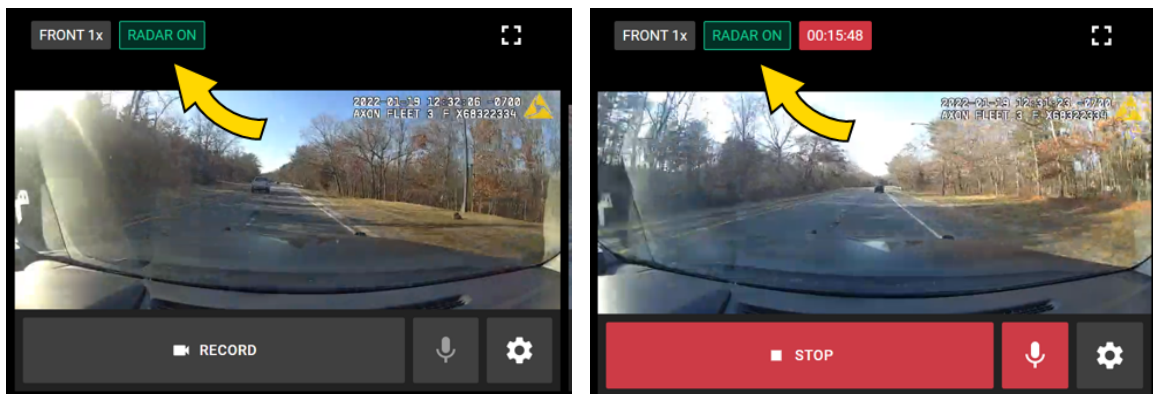
[SAVE SETTINGS](#)

## Notes

- If no RADAR data was captured for Target (T), Lock (L), or Patrol (P) speed, it displays as “---”.
- The Fleet 3 Hub does not calculate or translate speed. The numerical data is populated directly as it appears on the RADAR head unit.

## In-vehicle: Dashboard

When the hub detects there is a RADAR device present and communicating, the Axon Fleet Dashboard application shows a green RADAR ON badge in the primary evidence capture tile, shown here when the camera is buffering (left) and recording (right).



End of manual

