



D-810 Installation Guide

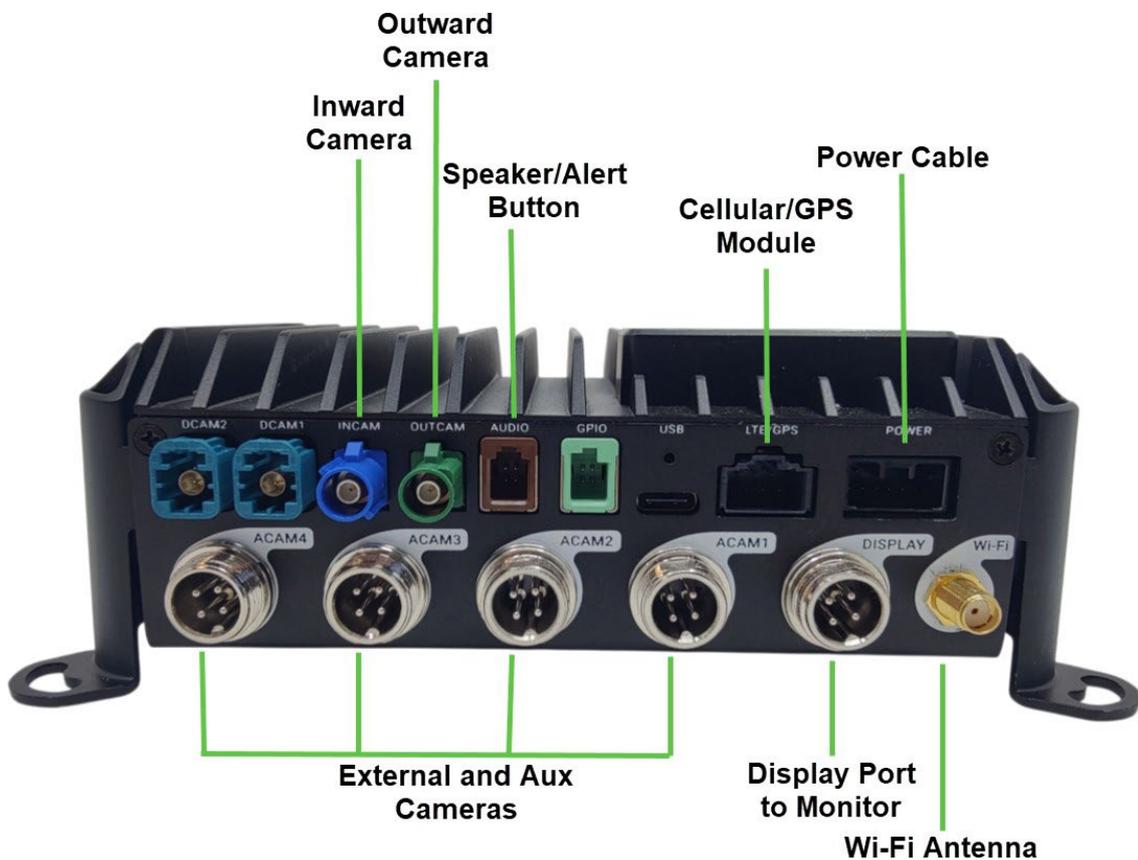
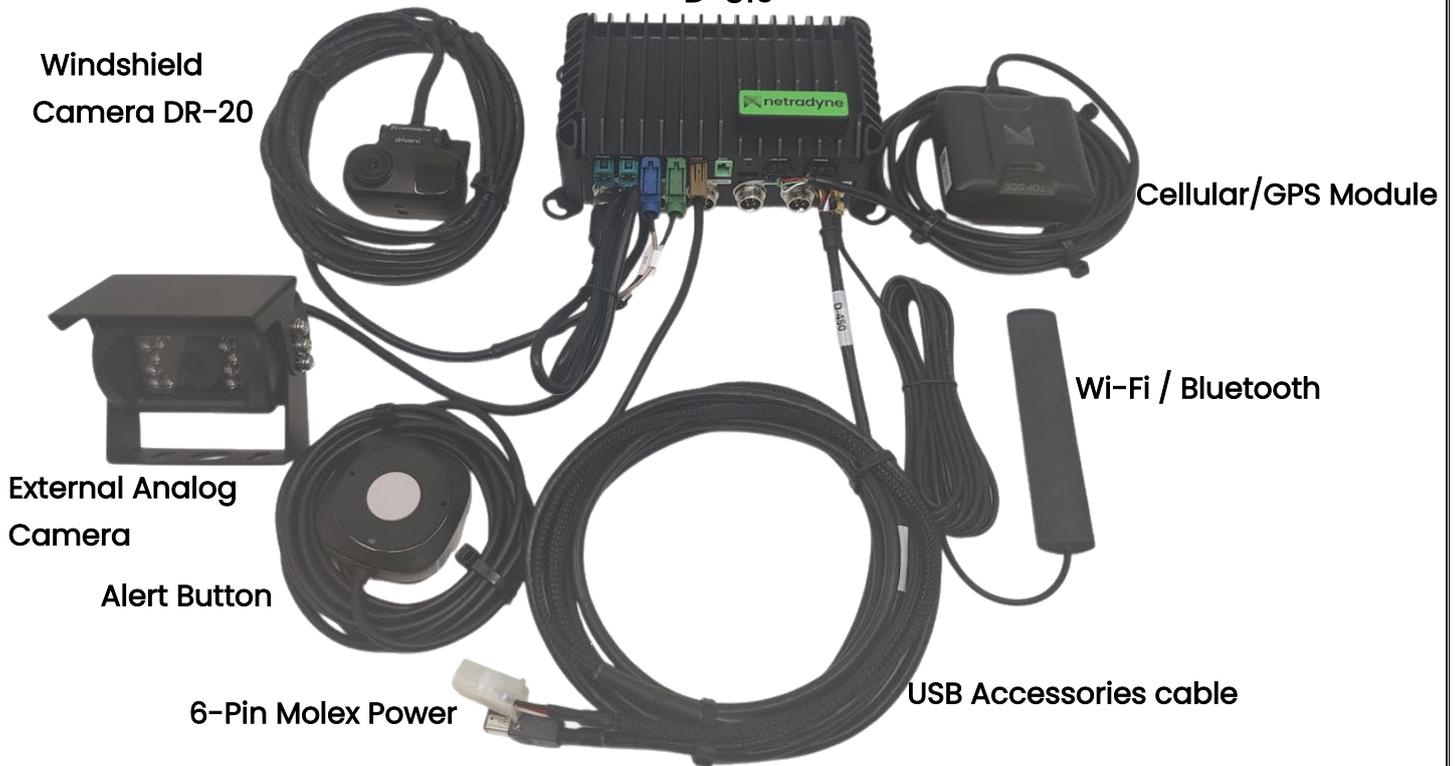
Dec 2025 Version 2.5

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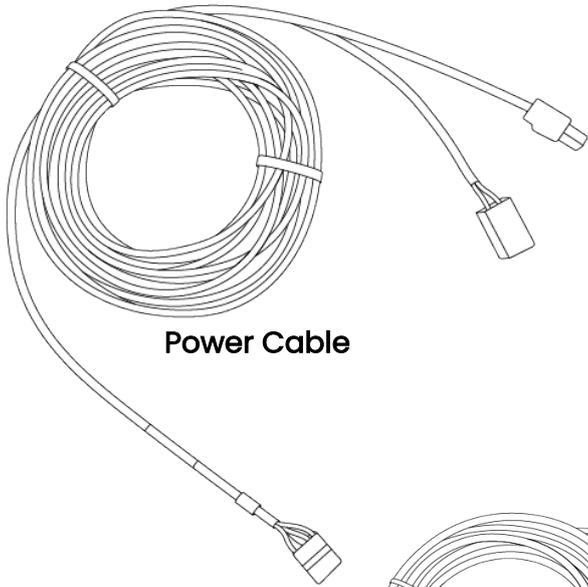
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D-810 Connectivity Outline

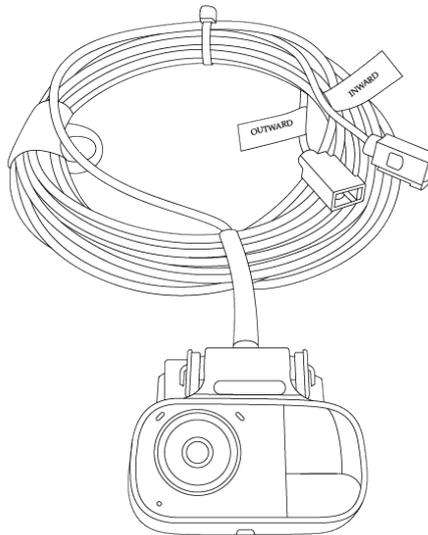
D-810



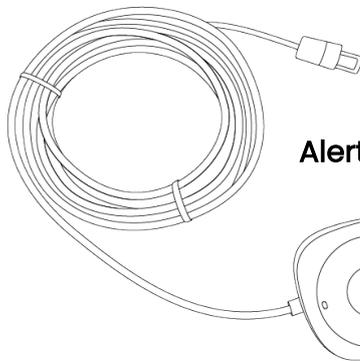
D-810 Box Content



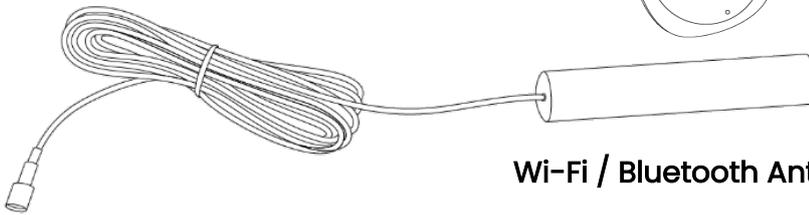
Power Cable



Windshield Camera DR-20

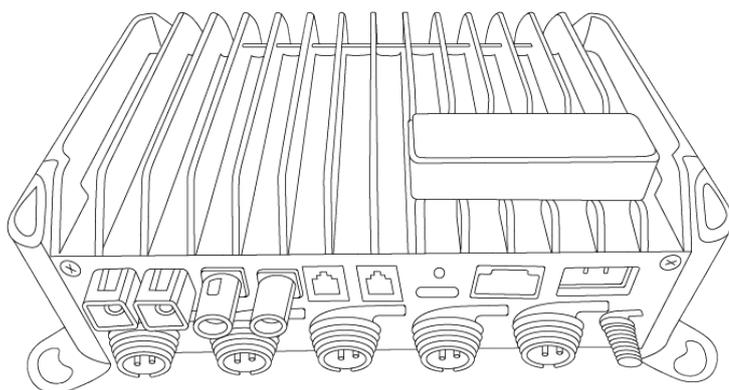
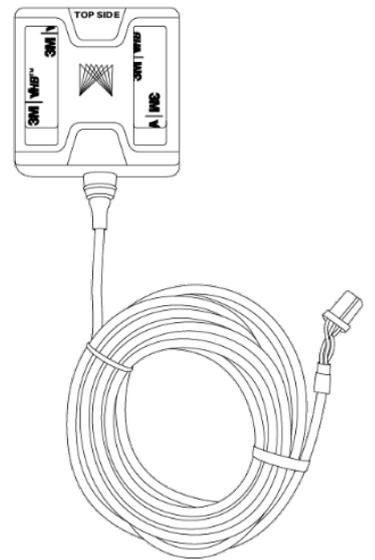


Alert Button



Wi-Fi / Bluetooth Antenna

Cellular/GPS Module



D-810

VDR (VBUS) Accessories



V1



V3

Equipment Required

The following equipment is required to complete the installation:

- Netradyne Driver•i D-810 Kit – Cellular/GPS Module, Power Cable, Windshield camera bracket, Speaker Alert Button, 2-way windshield camera and Wi-Fi / Bluetooth Antenna.
 - Optional Accessories
 - FL750 Narrow FOV (SKU) (Left and Right) Required for **360Ai**
 - FL750 Narrow FOV (SKU) (Center) Optional Backup Camera
 - Vehicle specific external camera mounts
 - Extension Cable 5, 10, 15 & 20 meters Required for **360Ai**
 - Vehicle Data Reader - VDR(VBUS) Required for **360Ai**
 - DMS Sensor
 - Vehicle Power Adapter Cables – (OBDII, J1939, J1708, Flying leads, or RP1226)
 - Zip Ties
 - VHB strips for Cellular/GPS Module
 - ≥91% Rubbing or Denatured Alcohol
- Flush Cutters
- Multimeter
- Mobile Phone Android or IOS with Driver•i Installer App
 - v6.6 or higher
- T-10 Security Torx Driver or Bit
- Heat Gun
- Trim removal tools
- Cordless Drill/Driver (Optional)
- Seam Roller
- Dry, clean, lint-free cloth
- Ratchet/Socket, Driver (8mm)

Suggested Location for Installation

NOTE: CONSIDERATION SHOULD BE GIVEN TO PLACEMENT/ORIENTATION OF THE D-810 DEVICE AND CABLE ROUTING.

VEHICLE OVERHEAD (CLASS 8)

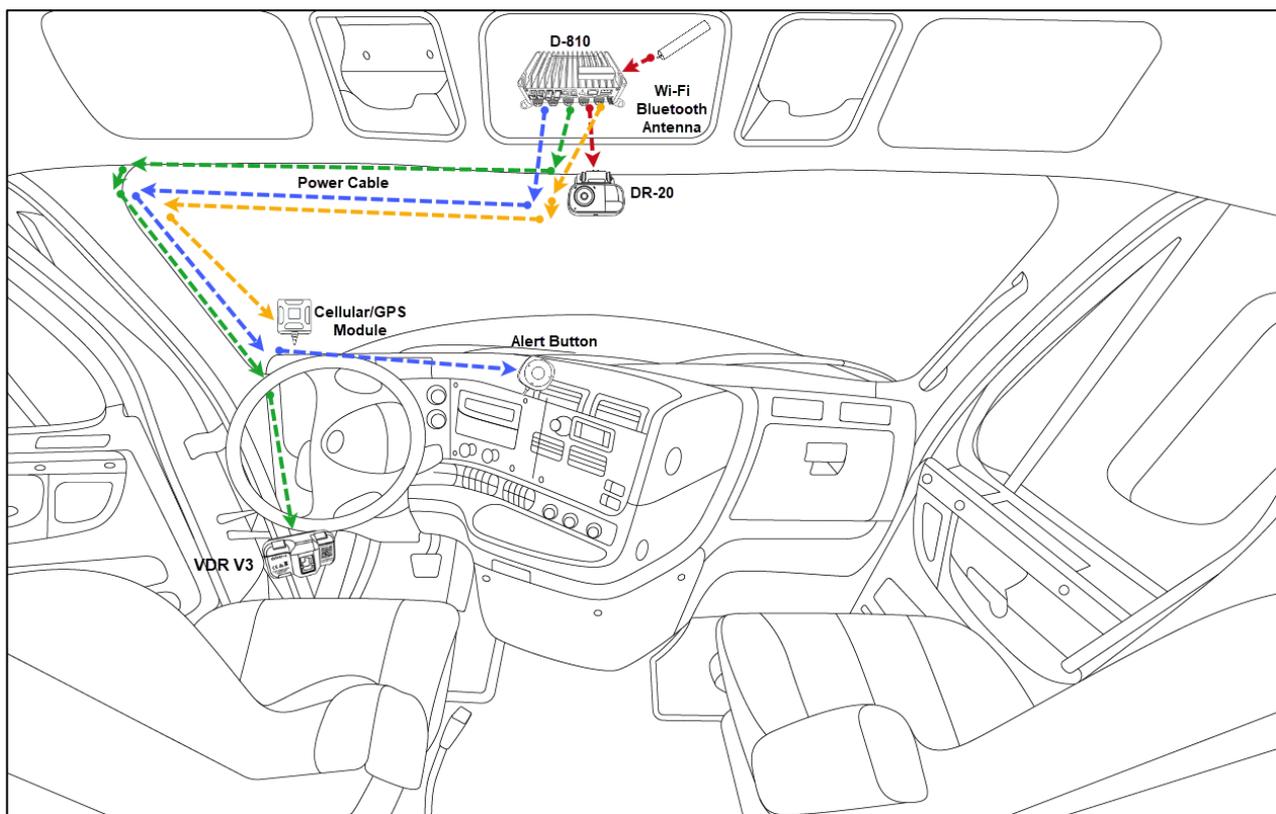
VEHICLE DOGHOUSE (CLASS 8)

PICK UP TRUCK OR SERVICE VEHICLE (CLASS 1, 2 &3)

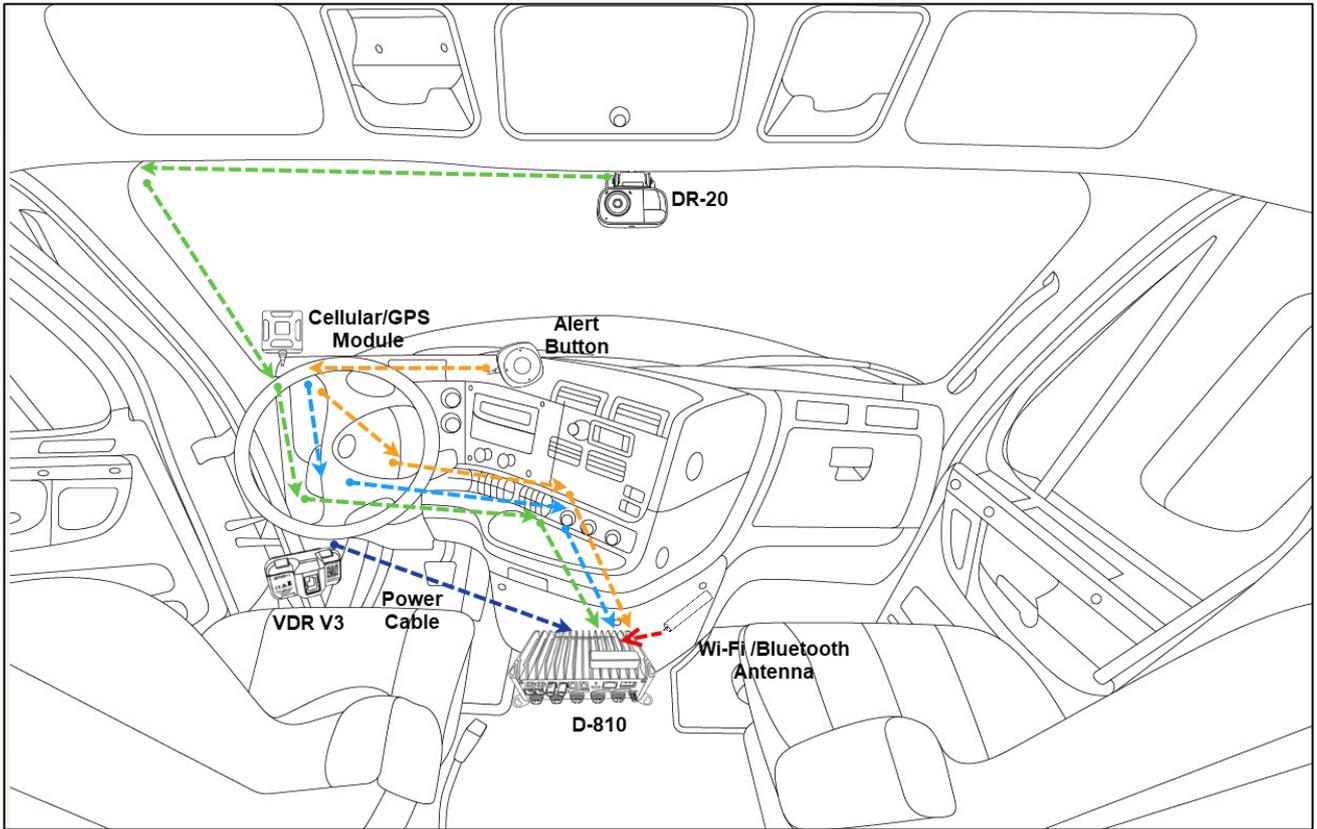
WHEN INSTALLING THE D-810 UNIT, IT'S ESSENTIAL TO SECURE IT PROPERLY USING EITHER THE PROVIDED SELF TAPPING SCREWS OR ZIP TIES.

AN UNSECURED UNIT CAN CAUSE UNWANTED MOVEMENT CAN CAUSE FALSE HIGH IMPACT VIDEO ALERTS.

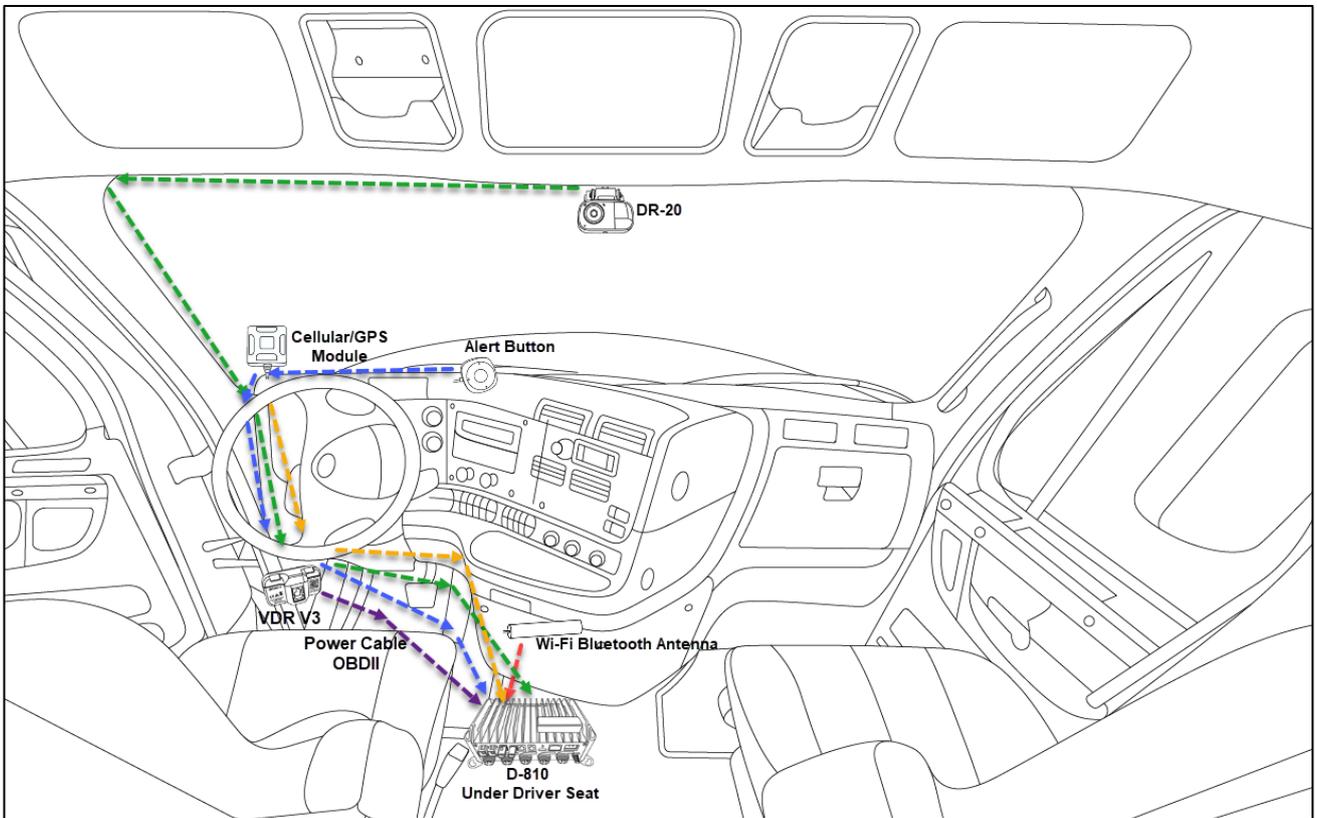
Class 8 Installation Outline



Vehicle Overhead Installation



Vehicle Doghouse Installation



Under Seat for Pick Up Truck or service Vehicle.

Vehicle Overhead Installation of D-810

LOCATE VEHICLE OVERHEAD, PLACE AND SECURE D-810 UNIT.



Windshield Camera Location Criteria

- WITHIN THE VEHICLES WIPER SWIPE
- CENTER OF THE WINDSHIELD
- NOT BLOCKED BY SUN VISOR OR OTHER OBSTRUCTIONS

Prep Windshield

- CLEAN THE WINDSHIELD WITH 91% OR GREATER ISOPROPYL ALCOHOL OR DENATURED ALCOHOL.
- USE A CLEAN MICROFIBER CLOTH TO REMOVE ANY ADDITIONAL RESIDUE.



Placing DR-20 Windshield Bracket and Camera

- DETERMINE CAMERA MOUNTING LOCATION
 - ENSURE THAT CAMERA PLACEMENT ALLOWS FOR FIELD OF VIEW ADJUSTMENTS OF THE FORWARD FACING CAMERA.
 - CAMERA SHOULD BE LEVEL TYPICALLY SHOWING JUST THE TOP EDGE OF THE VEHICLE HOOD AND NOT SHOWING TOO MUCH OF THE HOOD WHICH CAN BLOCK LANE MARKINGS. YOU MAY NEED TO ADJUST CAMERA LOCATION TO AVOID INTERFERENCE FROM OTHER WINDSHIELD MOUNTED SYSTEMS (EX. ADAS).



- MOUNTING THE DR-20
 - REMOVE THE VHB TAPE BACKING, SEE **FIG.A.**
 - PLACE THE MOUNTING BRACKET AND CAMERA IN THE AREA YOU HAVE PREPPED ENSURING THE CAMERA IS WITHIN THE WIPER SWIPE AND ARE NO OBSTRUCTIONS, SEE **FIG.B.**
 - USE A T-10 TORX SECURITY BIT OR DRIVER TO LOOSEN THE CAMERA FROM BRACKET, SEE **FIG.C.**
 - FIRMLY PRESS BRACKET AGAINST THE WINDSHIELD TO REMOVE AIR BUBBLES AND ACHIEVE 90% ADHESION, SEE **FIG.D.**
 - ONCE THE MOUNTING BRACKET HAS BEEN SUCCESSFULLY PLACED ON WINDSHIELD ADJUST THE CAMERA FOR THE CORRECT FIELD OF VIEW THEN USE THE T-10 TORX SECURITY BIT OR DRIVER TO TIGHTEN THE DR-20 CAMERA BACK ON THE BRACKET, SEE **FIG.E.**

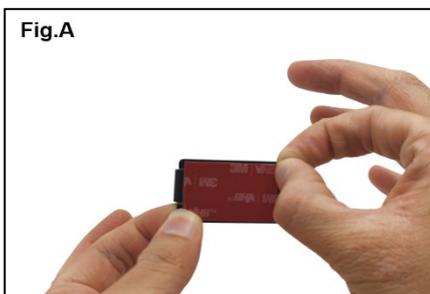
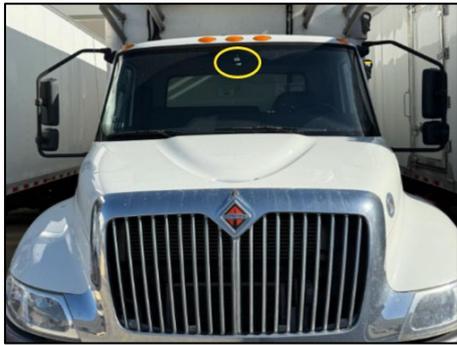




Fig.D



Fig.E



INSPECT VHB ADHESION FROM OUTSIDE THE VEHICLE TO ENSURE 90% ADHESION IS ACHIEVED. (NO AIR BUBBLES)

Routing DR-20 Windshield Camera Cable

- ROUTE 2-WAY CAMERA CABLE, FOR THIS INSTANCE WE WILL BE ROUTING FROM THE VEHICLES HEADLINER INTO THE VEHICLES OVERHEAD COMPARTMENT, SEE FIG.A.
- PLUG IN INWARD (BLUE) AND OUTWARD (GREEN) CONNECTORS INTO THEIR PROPER PORTS, SEE FIG.B.
 - FLASHING RED LED ON THE DR-20, INDICATES THE INWARD AND OUTWARD CABLES ARE REVERSED.

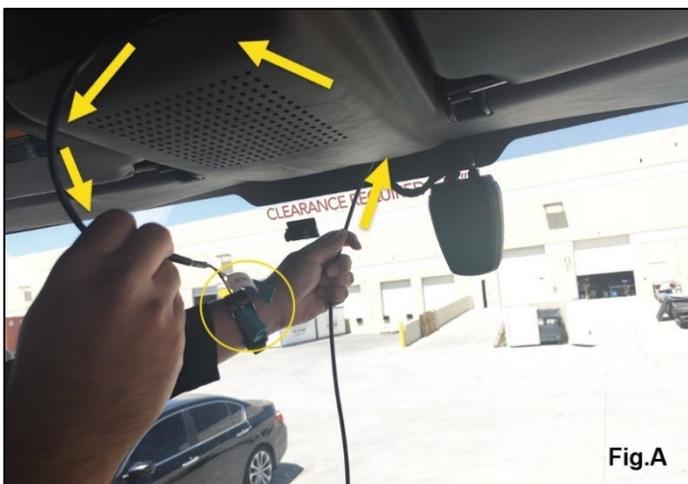


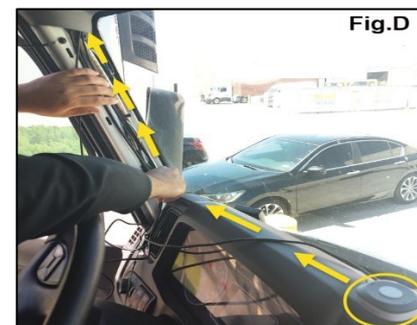
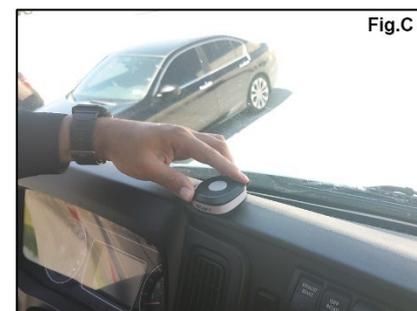
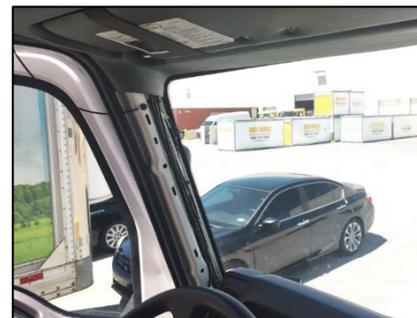
Fig.A



Fig.B

Routing and placing Alert Button

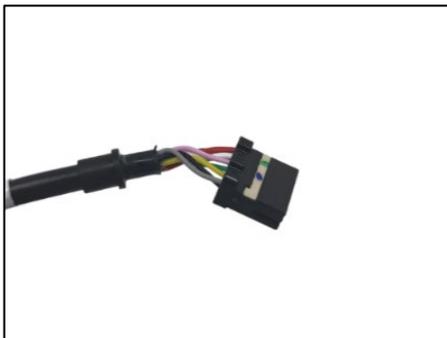
- REMOVE VEHICLE DRIVER SIDE A-PILLAR, SEE **FIG.A**.
- ENSURE ITS PLACED WITHIN DRIVERS REACH ON THE DRIVER SIDE DASHBOARD.
 - CONSULT CUSTOMER FOR ALERT BUTTON PLACEMENT.
- CLEAN THE VEHICLE DASH LOCATION WERE ALERT BUTTON WILL BE PLACED WITH 91% OR GREATER ISOPROPYL OR DENATURED ALCOHOL.
- REMOVE THE VHB TAPE BACKING FROM ALERT BUTTON, SEE **FIG.B**.
- PLACE ALERT BUTTON ON VEHICLE DASH, ADD PRESSURE TO ENSURE VHB TAPE IS LOCKED IN PLACE, SEE **FIG.C**.
- ROUTE THE ALERT BUTTON WIRE DOWN THE DRIVER SIDE VEHICLE DASH, UP THE A-PILLAR AND THROUGH THE VEHICLE HEADLINER, SEE **FIG.D & D1**.
 - ENSURE CABLE ROUTING DOES NOT INTERFERE WITH VEHICLE AIRBAGS.
- PLUG IN BROWN CONNECTOR TO THE BROWN PORT LABELED AUDIO ON THE D-810 UNIT, SEE **FIG F**.





Routing D-810 Power Cable

- ROUTE THE BLACK TIP END OF THE POWER CABLE THROUGH THE VEHICLE HEADLINER AND OVERHEAD TO THE D-810, SEE **FIG.A.**
- ONCE THE POWER CABLE HAS BEEN ROUTED INTO THE OVERHEAD PLUG THE BLACK CONNECTOR INTO PORT LABELED POWER ON THE D-810 UNIT, SEE **FIG.B.**
- ROUTE THE 6-PIN MOLEX AND GT32 PORTION OF THE CABLE DOWN THE HEADLINER INTO THE DRIVER SIDE A-PILLAR AND INTO THE VEHICLE DASHBOARD TOWARDS THE DIAGNOSTIC PORT, SEE **FIG.C. & C1**
- INSTALL THE TRUCK SPECIFIC CABLE, SEE **FIG.D.**
 - REFER TO OUR TRUCK SPECIFIC CABLE GUIDE FOR CORRECT CABLE SELECTION AND INSTALLATION INTRUCTIONS.
- PLUG IN THE D-810 POWER IO/CABLE FEMALE 6-PIN MOLEX CONNECTOR TO THE TRUCK SPECIFIC VBUS VEHICLE POWER ADAPTER CABLE MALE 6-PIN MOLEX CONNECTOR, SEE **FIG.E.**



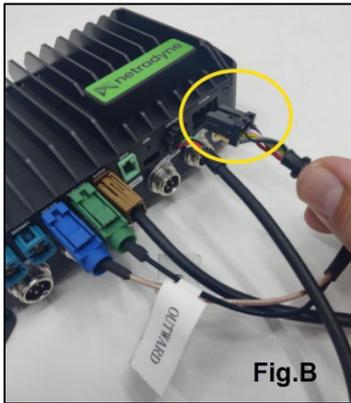


Fig.B



Fig.C



Fig.C1

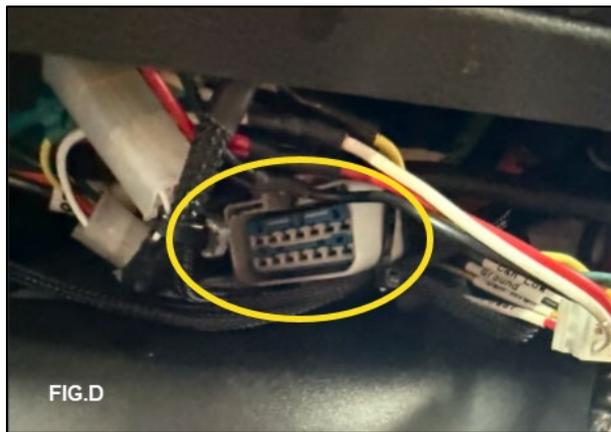


FIG.D

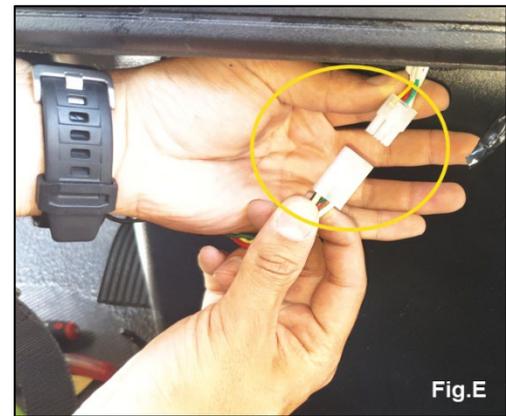


Fig.E

Routing and placing the Cellular/GPS Module

- CLEAN THE VEHICLE LOWER PART OF THE DRIVER SIDE WINDSHIELD WHERE CELLULAR/GPS MODULE WILL BE PLACED WITH 91% OR GREATER ISOPROPYL ALCOHOL OR DENATURED ALCOHOL.
- REMOVE THE VHB TAPE BACKING FROM THE CELLUALR/GPS MODULE, SEE **FIG.A**.
- THE CELLULAR/GPS MODULE CAN BE PLACED ON THE VEHICLE DASH OR THE LOWER CORNER OF THE VEHICLE WINDSHIELD. FOR BEST PERFORMANCE IS RECOMMENDED TO AVOID PLACING NEAR VEHICLE SPEAKER.
- BE SURE TO ORIENT THE CELLULAR/GPS MODULE WITH THE ARROW POINTING SKYWARD.
- PLACE CELLULAR/GPS MODULE ON DRIVER SIDE LOWER CORNER OF THE WINDSHIELD AND ADD PREASSURE TO ENSURE VHB TAPE IS LOCKED IN PLACE, SEE **FIG.B**.
- ROUTE THE CELLULAR/GPS MODULE CABLE UP THE DRIVER SIDE A-PILLAR AND DOWN THE VEHICLE HEADLINER, THEN INTO THE OVERHEAD. PLUG CABLE END IN TO THE D-810 DEVICE LABELED **LTE/GPS** PORT, SEE **FIG D, E & E**.

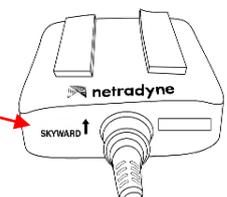
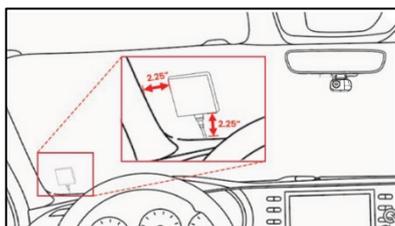




Fig.A

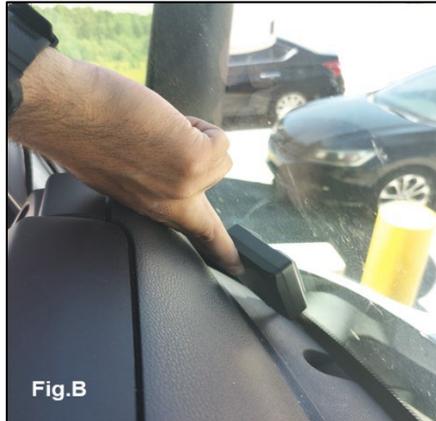


Fig.B



Fig.C

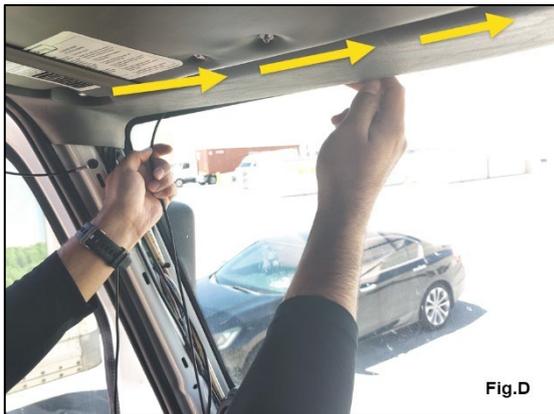


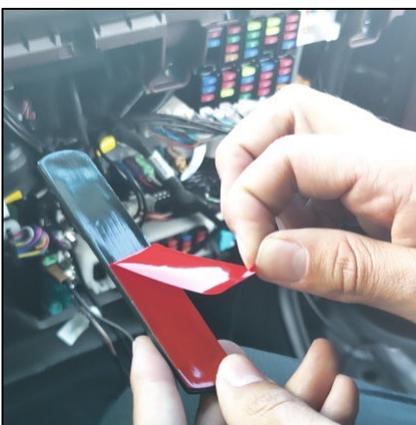
Fig.D



Fig.E

Connecting and Placing Wi-Fi/Bluetooth Antenna

- REMOVE VHB TAPE BACKING ON THE WI-FI/BLUETOOTH ANTENNA
- PLACE IN SECURE LOCATION ENSURING THAT ITS NOT SURROUNDED BY METAL.
- THIS ANTENNA IS REQUIRED FOR BLUETOOTH AND WIFI CONNECTIVITY
- SCREW IN WI-FI ANTENNA TO D-810 AS SEEN ON **FIG.A**





Installing External Analog Cameras

Routing External Camera Cable- Through the Door

(A) REMOVE THE SIDE MIRROR PANEL.

(B) REMOVE THE DOOR PANEL.

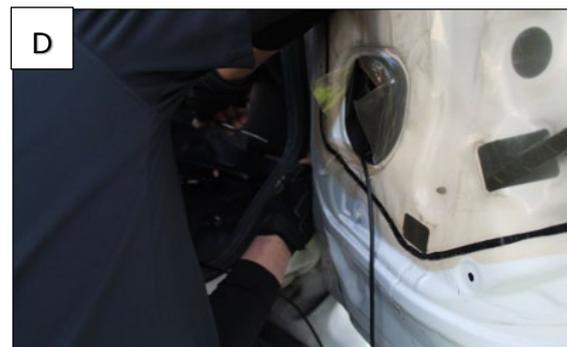
(C) ROUTE CAMERA THROUGH MIRROR SLOT.

(D) FISH OUT THE EXTERNAL CAMERA CABLE THROUGH THE INSIDE OF THE DOOR AND OUT THE DOOR BOOT.

(E) CONTINUE TO ROUTE CAMERA CABLES THROUGH THE DASH, UNTIL REACHING DESIRED D-810 LOCATION. CONNECT THE CAMERA CABLE TO THE APPROPRIATE CHANNEL ON THE D-810. WHEN USING 1080P CAMERAS, MAKE SURE TO USE CHANNELS 1 AND 2, AS THEY ARE THE ONLY ONES CAPABLE OF HANDLING 1080P.

NOTE: AVOID INTERFERING WITH WINDOW AND DOOR MECHANISMS.

TEST FOR FULL FUNCTIONALITY OF THE WINDOW OPERATIONS.



Installing External Analog Cameras

- WHEN MOUNTING MIRROR CAMERAS USE VEHICLE SPECIFIC AND/OR GENERIC POST NETRADYNE MOUNTING BRACKETS, ATTACH THE CAMERAS TO THE VEHICLE FACING THE REAR.
- FINAL CAMERA ORIENTATION ADJUSTMENTS WILL BE DONE WHILE CONNECTED TO THE INSTALLER APP AFTER INSTALLATION DURING 360AI CALIBRATION.



Note: Final camera positioning will be done using Installer App.

Installing VDR Vehicle Data Reader (VBUS)

PLUG THE VDR DEVICE INTO THE RIGHT ANGLE OBDII PORT ON THE TRUCK SPECIFIC VEHICLE POWER ADAPTER CABLE AND SECURE WITH ZIP TIES. START VEHICLE TO INITIATE CAN DATA.



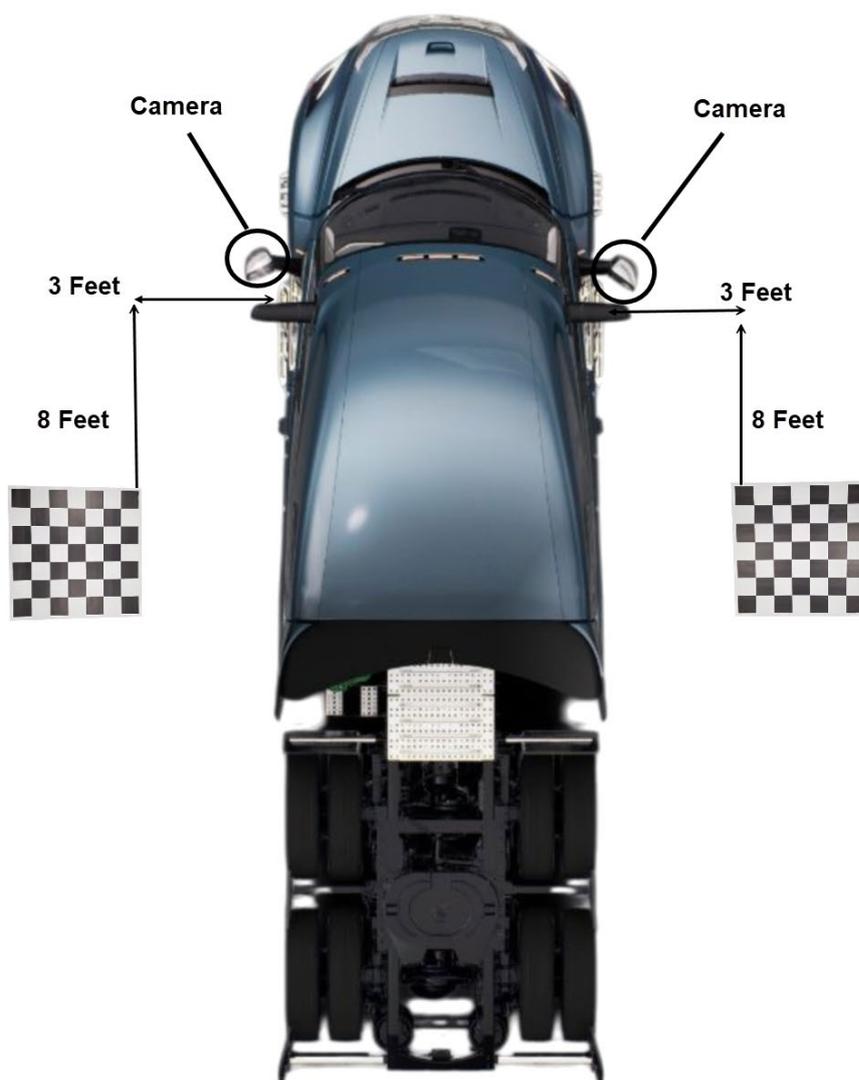
Vehicle Data Reader V1



Vehicle Data Reader V3

360Ai Calibration Setup

- PLACE THE CHECKERBOARD 8FT BACK AND 3FT AWAY FROM THE CAMERA
 - MEASURE 3FT AWAY FROM THE CAMERA AS NOTED IN THE DIAGRAM BELOW.
 - CHANGE ARROW ON CHECKERBOARD
 - CALIBRATION MUST BE DONE DURING DAYLIGHT HOURS ON LEVEL GROUND, SHADING CAN EFFECT CALIBRATION.

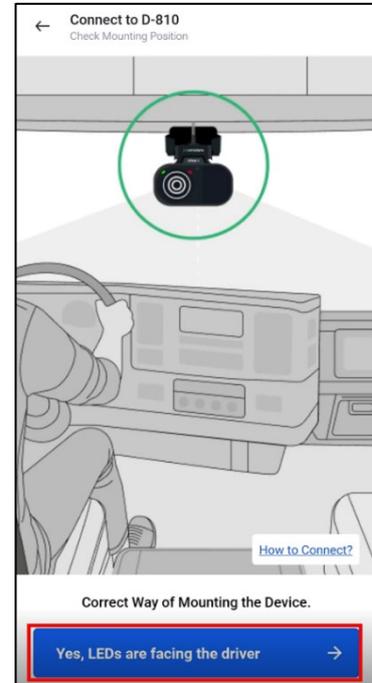
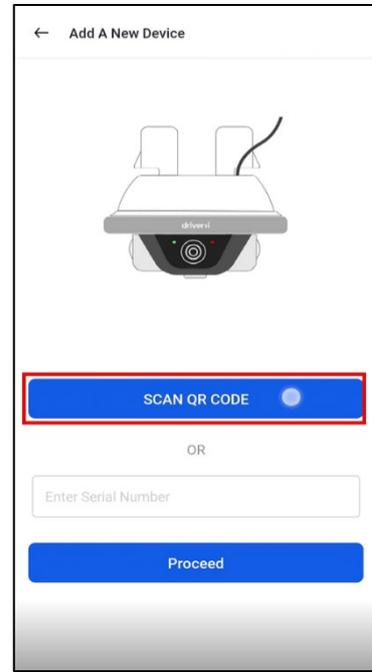
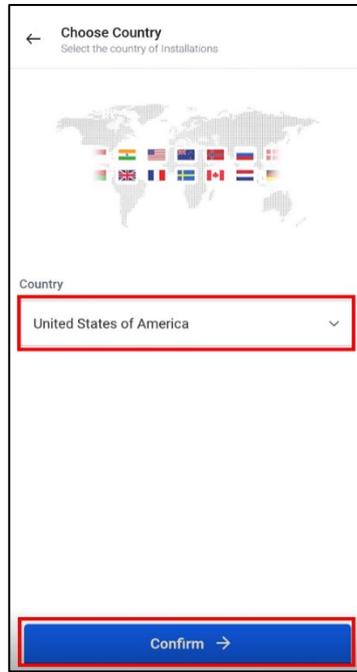
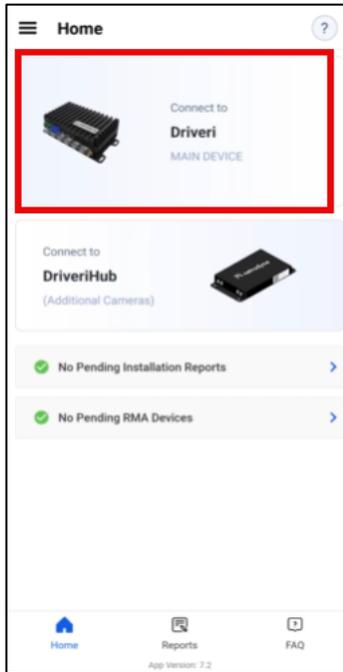


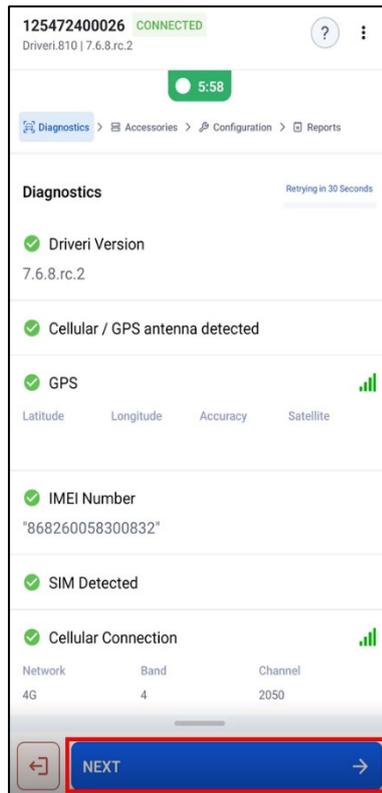
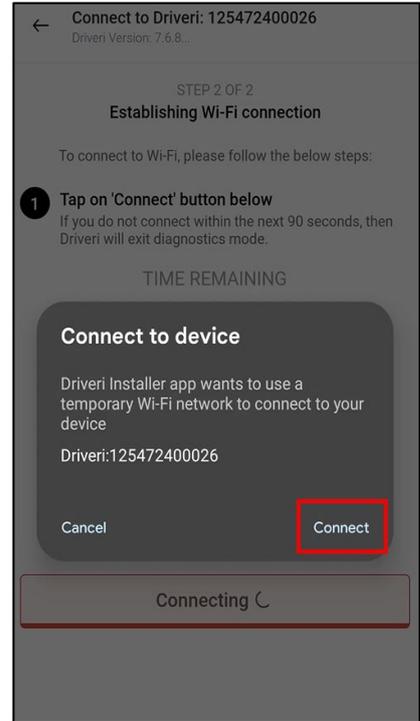
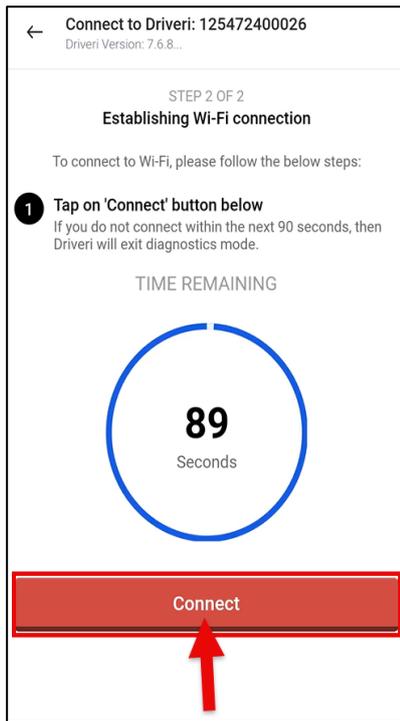
POSSIBLE INSTALLATION SCENARIOS

- COMPLETE INSTALL
- 360AI ADD ON FOR VEHICLES WITH D-810 & VDR PREVIOUSLY INSTALLED.

Installer App Pairing

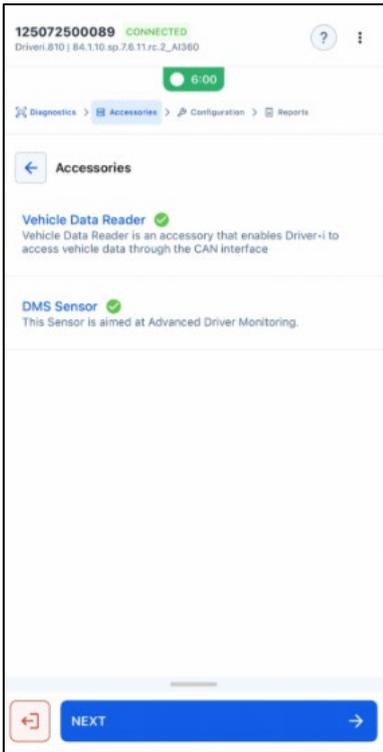
OPEN THE INSTALLER APP (WE RECOMMEND CONNECTING ALL ACCESSORIES BEFORE LAUNCHING THE INSTALLER APP.)



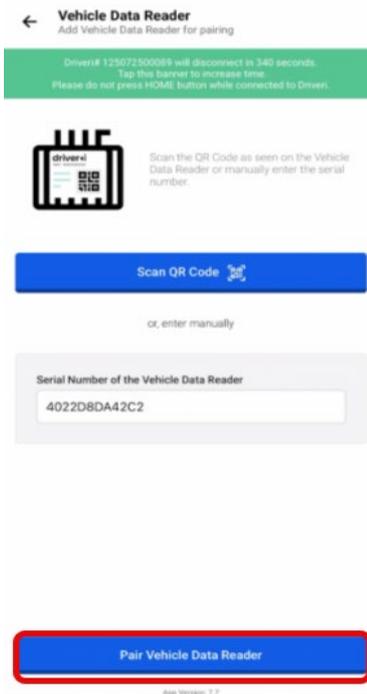
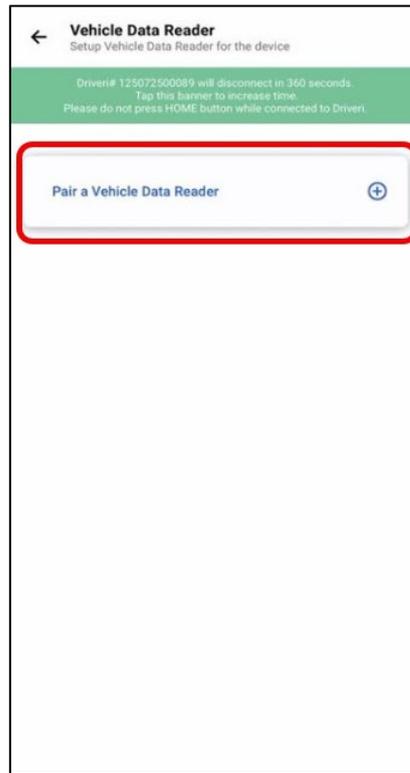


Vehicle Data Reader – VDR (VBUS) Pairing via Installer

If this is a non VDR install, skip to page 28 “Dash Cameras.”



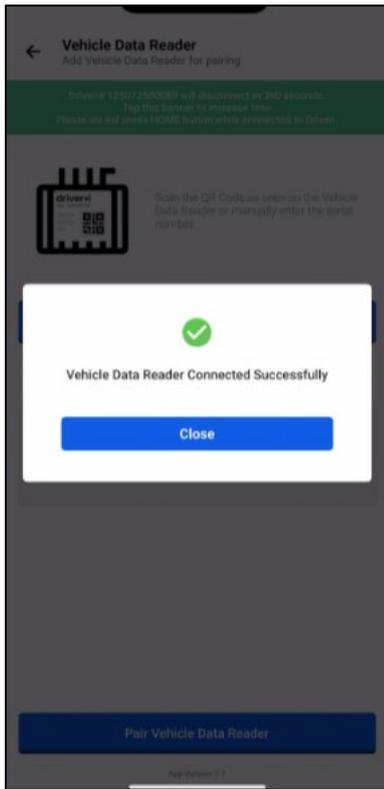
VDR



Scan QR code of VDR and Tap "Pair VDR"



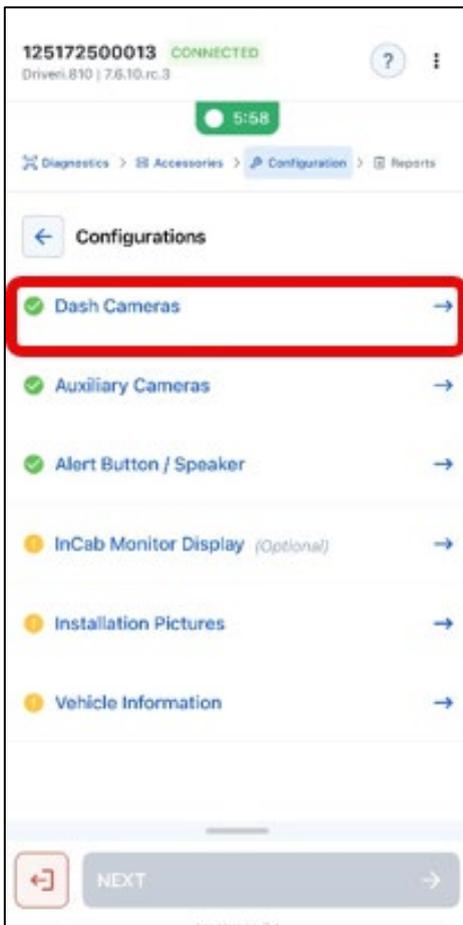
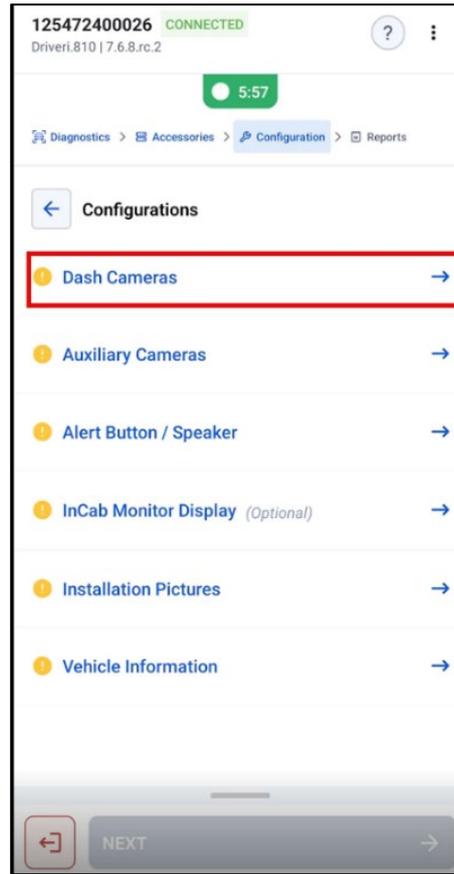
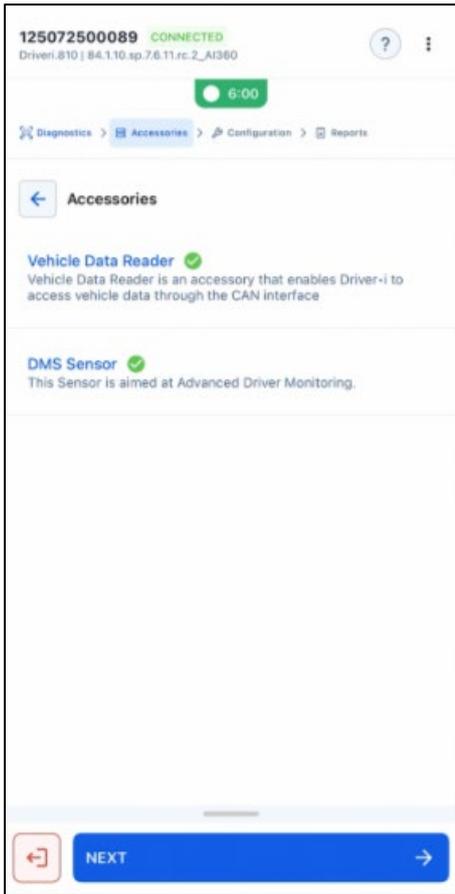
Indicates VDR is Pairing to D-810



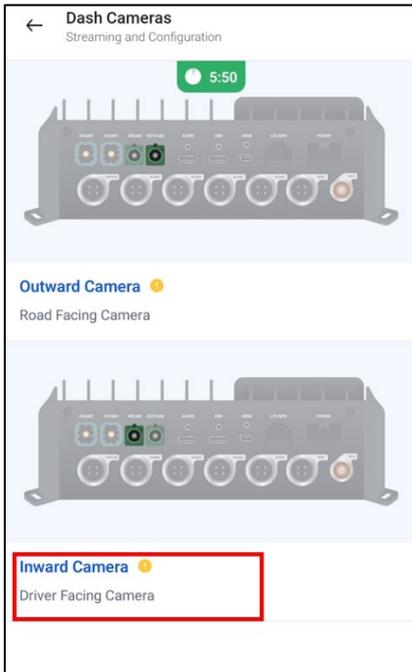
Indicates VDR is successfully paired



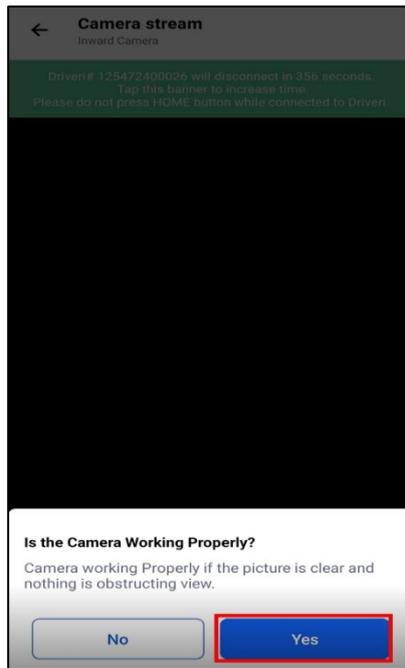
Press back arrow to proceed to vehicle pairing



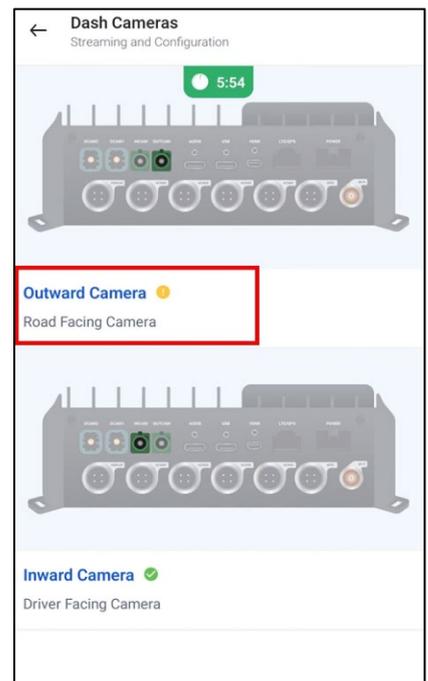
Click "Dash Cameras"



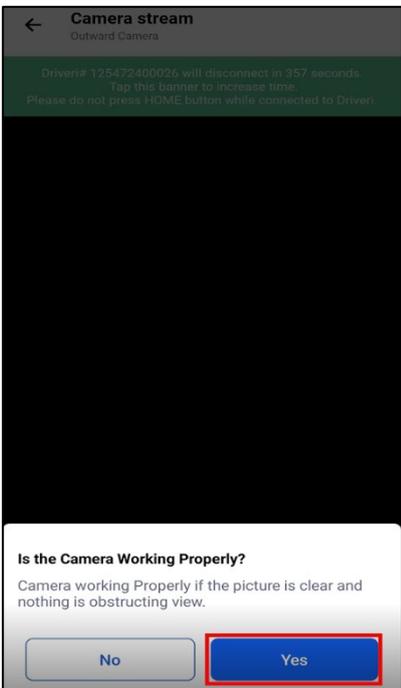
Tap on Inward Camera to verify feed.



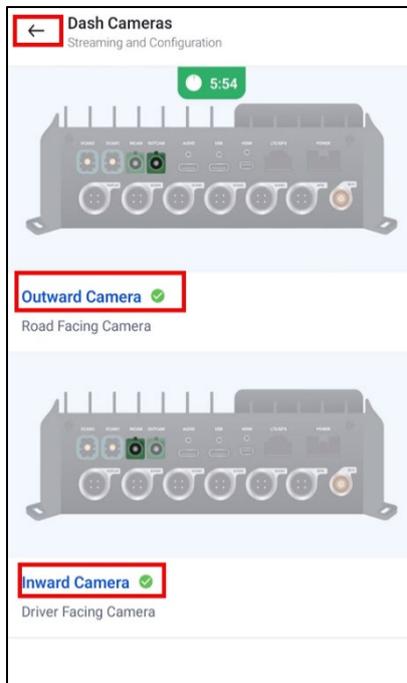
Tap on Yes if video feed is working properly.



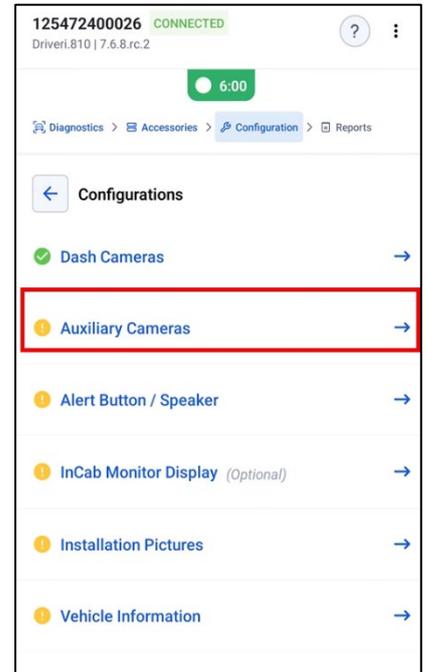
Tap on Outward Camera to verify feed and check camera alignment.



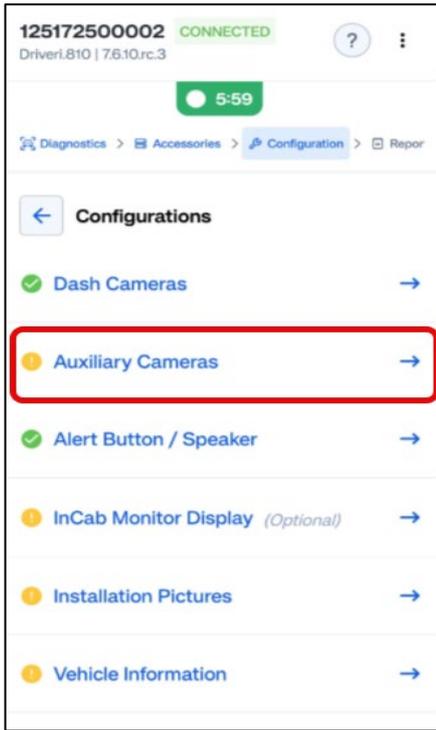
Tap on Yes, if video feed is working properly.



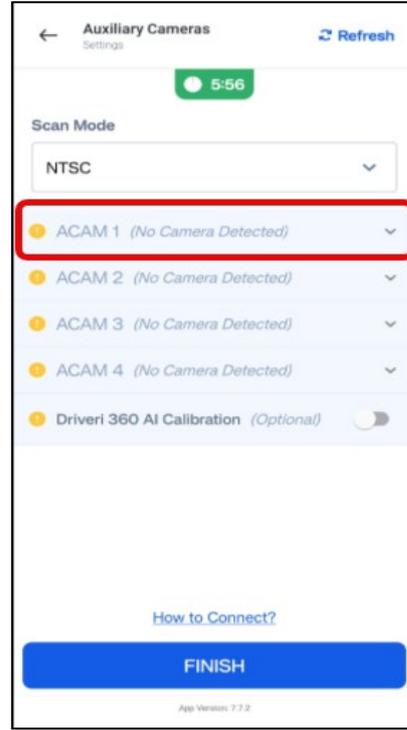
Once you have verified both inward and outward camera feeds, tap on the left arrow to get back to the configuration screen.



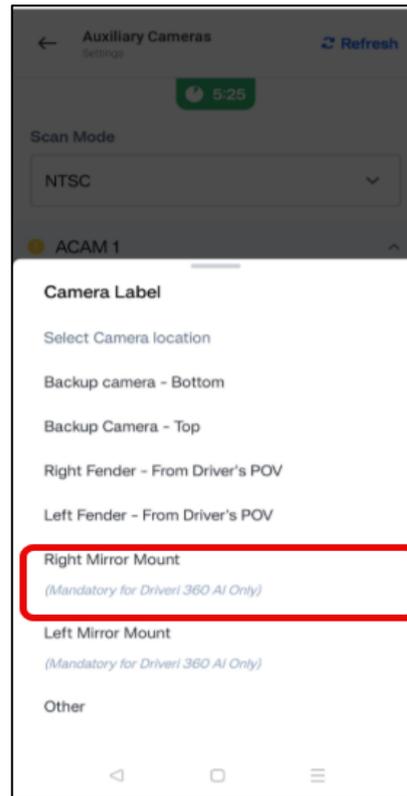
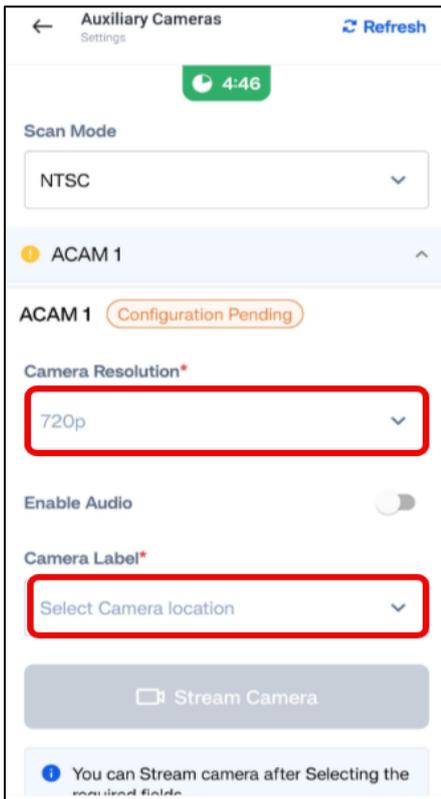
Tap on Auxiliary cameras if applicable (360Ai) if not, move on to the Alert Button /Speaker.



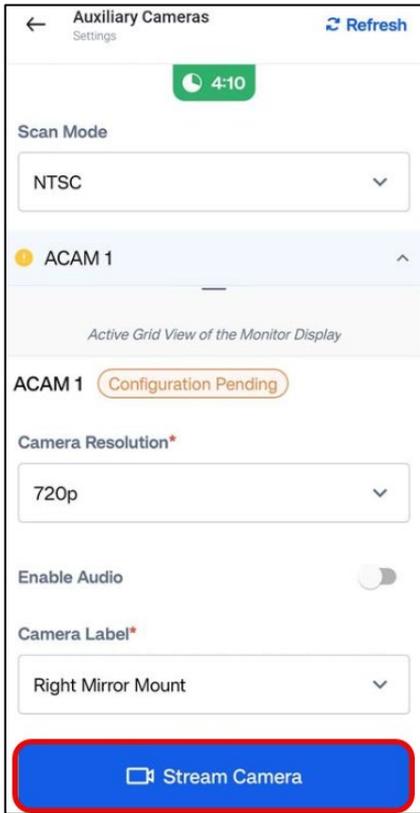
Tap on Auxiliary Cameras



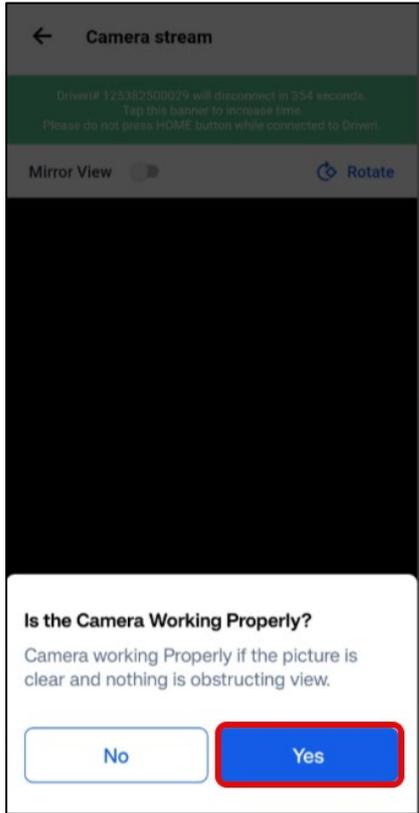
Tap on ACAM1



If installing four cameras, use channel 3 & 4 for 720P resolution. Channels 1 & 2 should be reserved for 1080P cameras. Tap on Camera Resolution to pick the auxiliary camera resolutions, then tap on camera label to pick the correct label for the auxiliary cameras, for 360Ai pick the labels that state Mandatory for Driveri 360Ai Only.

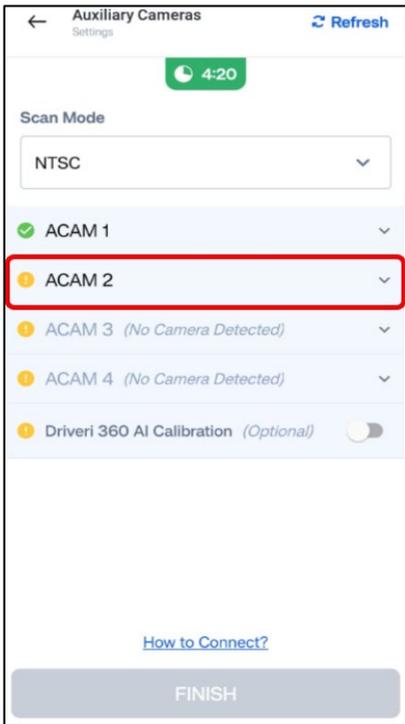


Do not use Mirror or Rotate views on 360Ai installs.



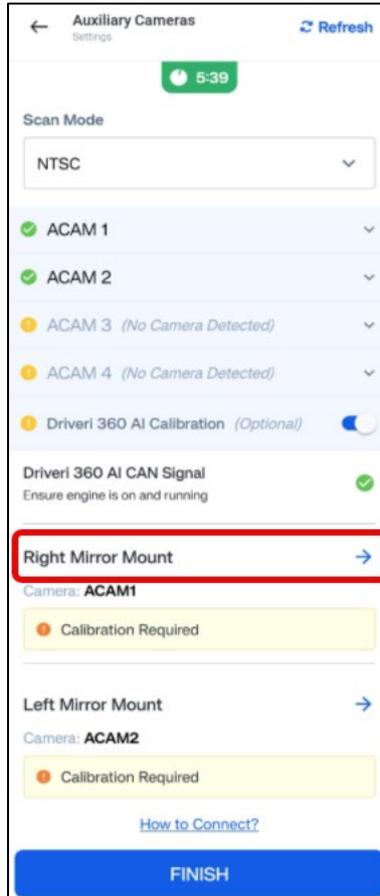
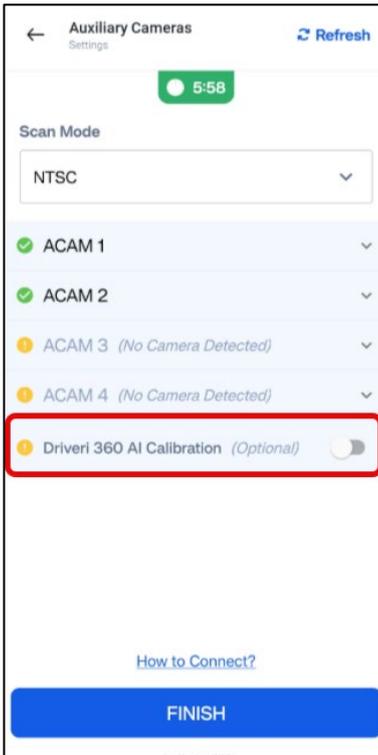
Once the camera resolutions and camera labels have been completed, tap on the Stream Camera. For non 360Ai installation, align cameras for clear field of view.

Do NOT tap on Mirror View or Rotate toggle button 360Ai installs. Once you are able to see camera stream, tap on Stop Camera Stream, then tap Yes.

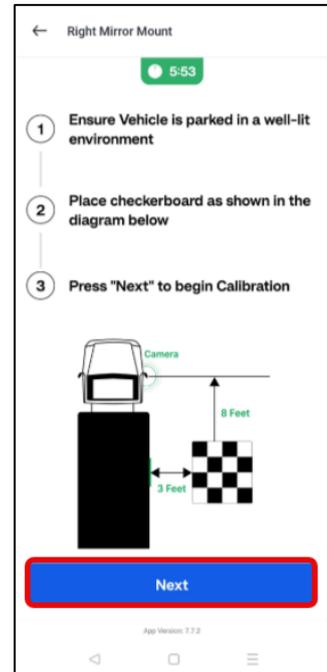


repeat the process for ACAM 2 / Auxiliary Camera 2

360Ai Calibration

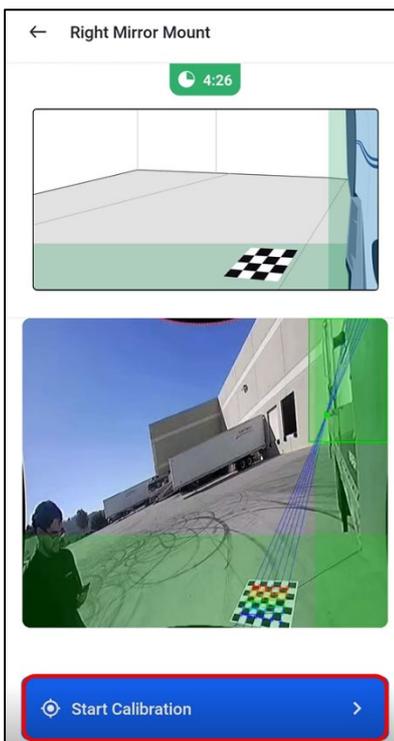


Ensure the VDR has been paired with vehicle running for 3 minutes prior to beginning the 360Ai calibration. If Driver.i360Ai CAN signal fails, you need to de power and re power the Driver.i and VDR and restart process from VDR.

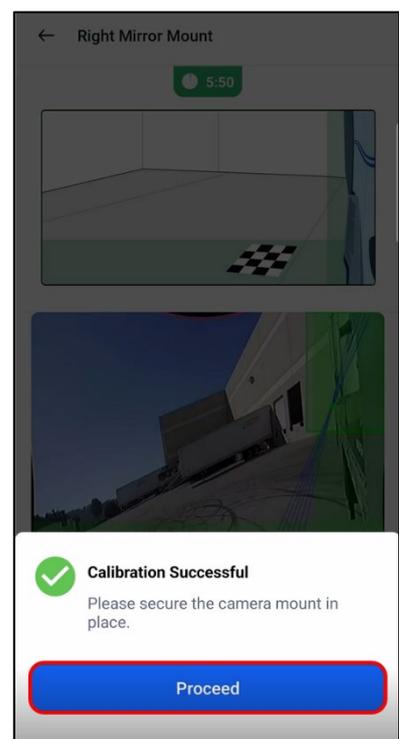


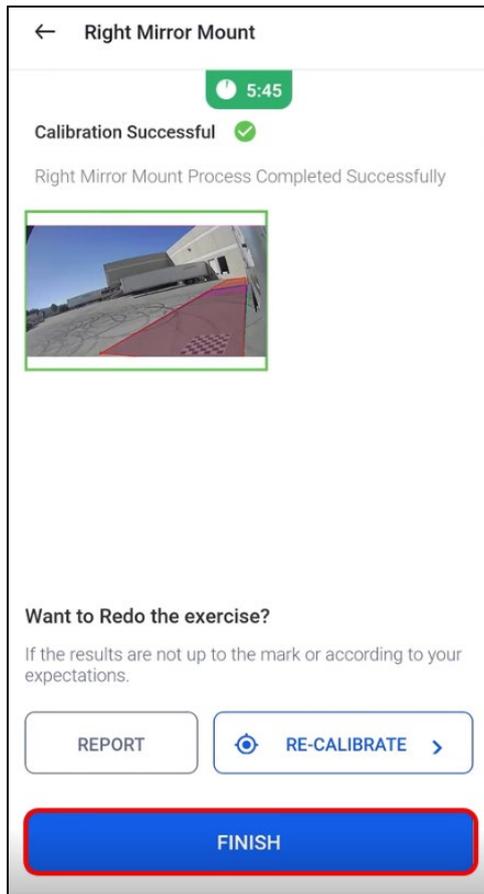
Once you have detected and configured both external auxiliary cameras **ACAM1** & **ACAM2**, Tap on Driveri 360 Ai Calibration. Ensure vehicle is running.

Tap on Right Mirror Mount, then tap next to proceed with the calibration of the Right Mirror Mount auxiliary camera.

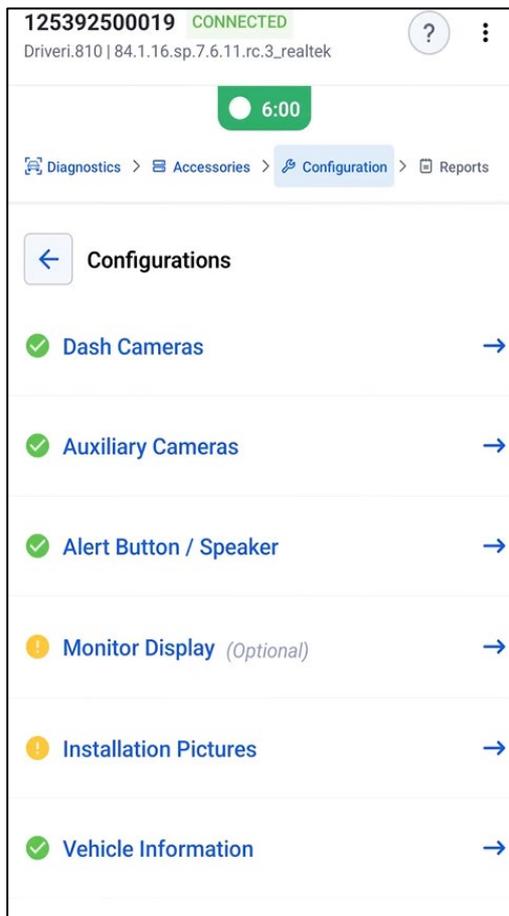
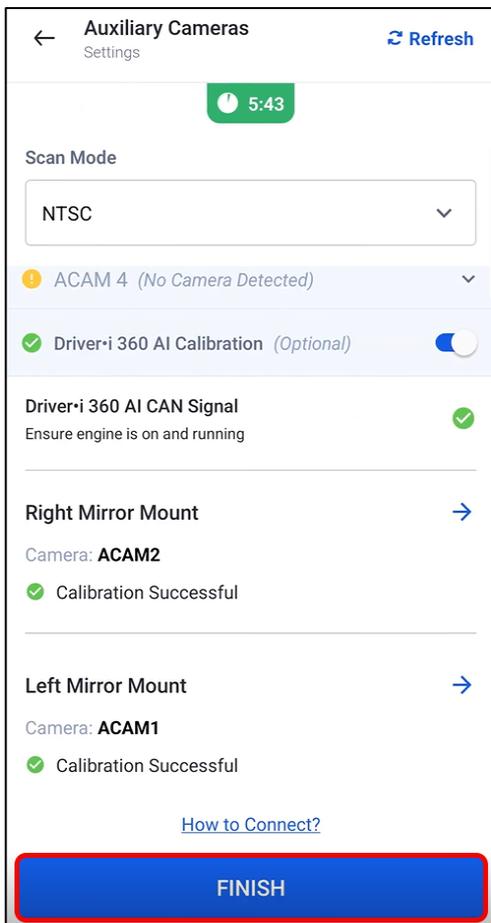


Adjust the camera up and down (vertically) so that the checkerboard is in the bottom green section as shown in picture. Side to side (Horizontally) adjust the camera so that the truck is within the vertical green section. Blue lines indicate proper camera alignment. Press Start Calibration, you should get an indication calibration successful, then tap proceed.

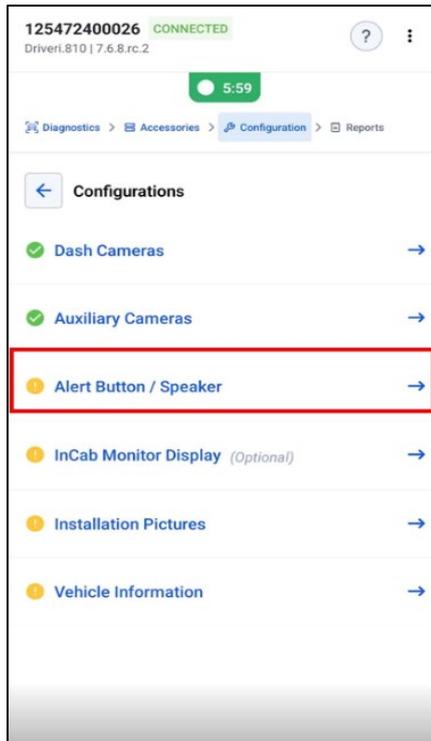




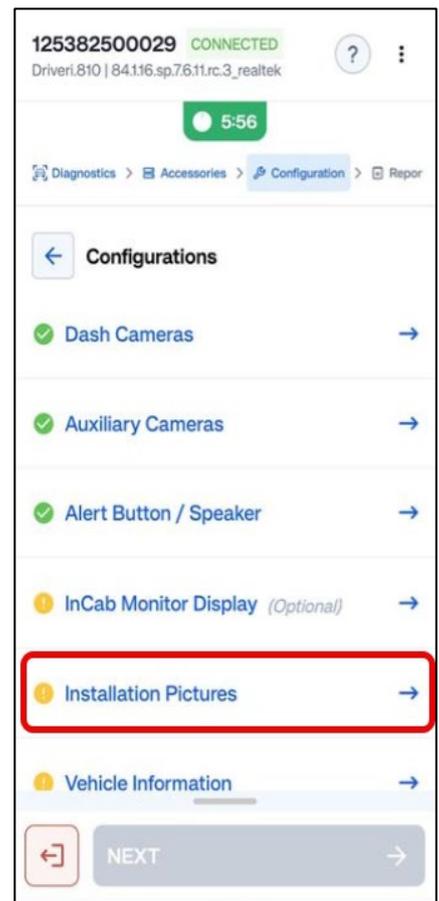
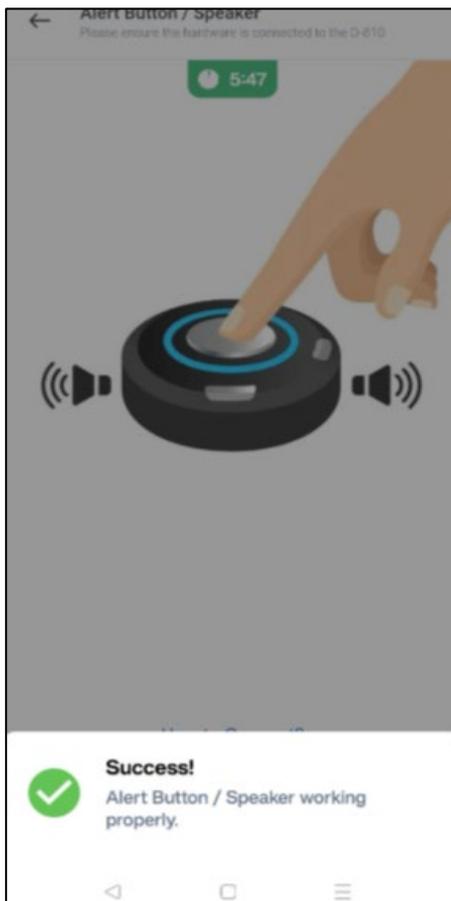
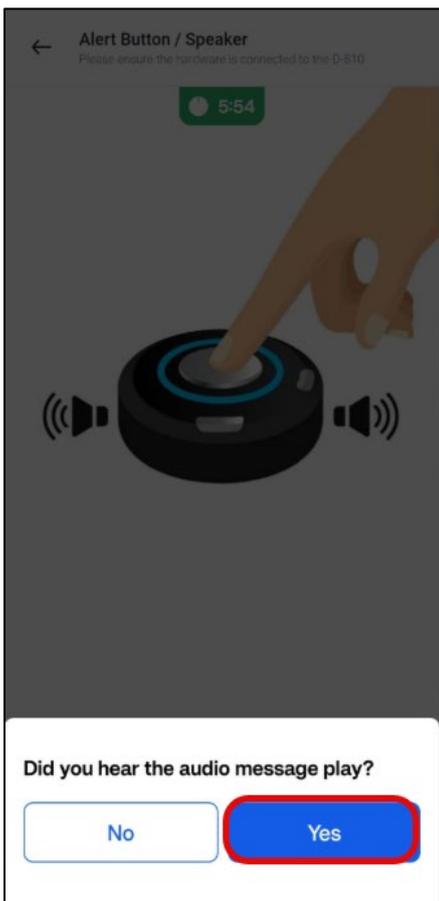
After Calibration is Successful, tap the Finish button. Then follow the same process for the left mirror mount.



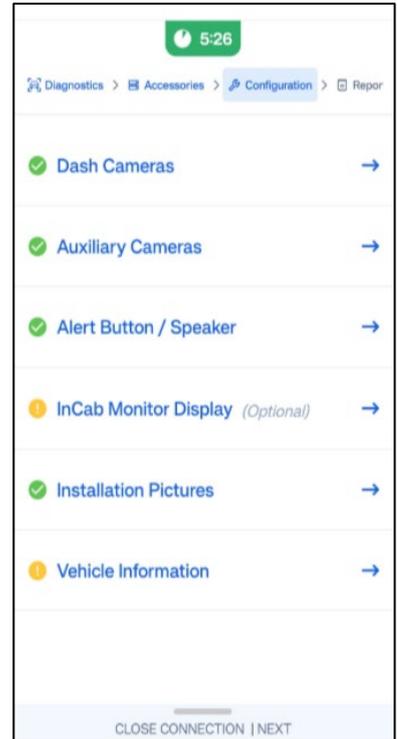
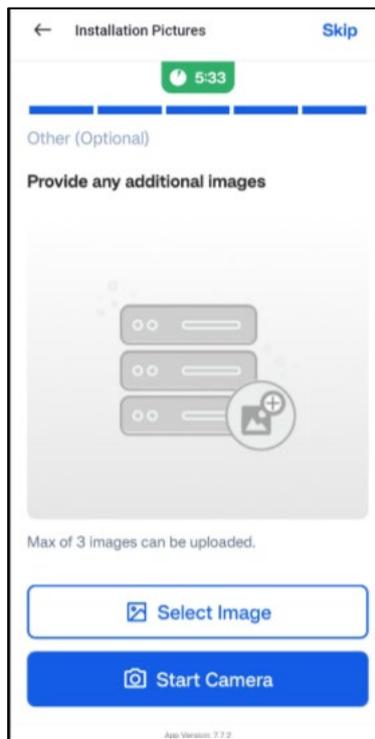
Once both auxiliary cameras have been successfully calibrated, tap on Finish.



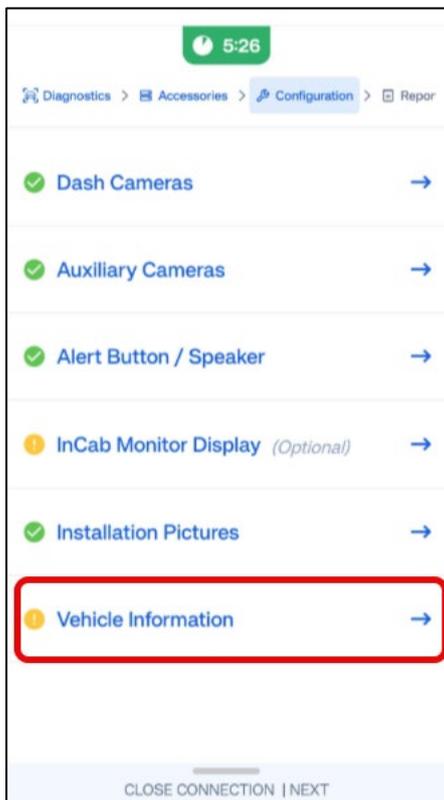
Tap the Alert Button when prompted to do so, to detect.



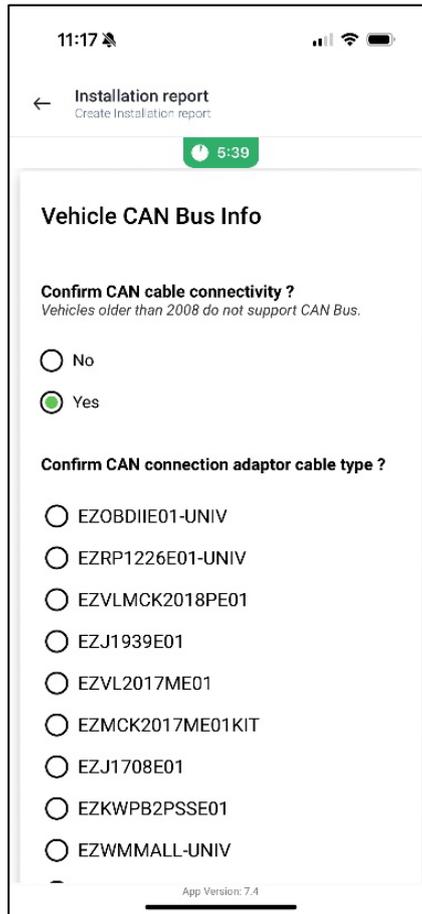
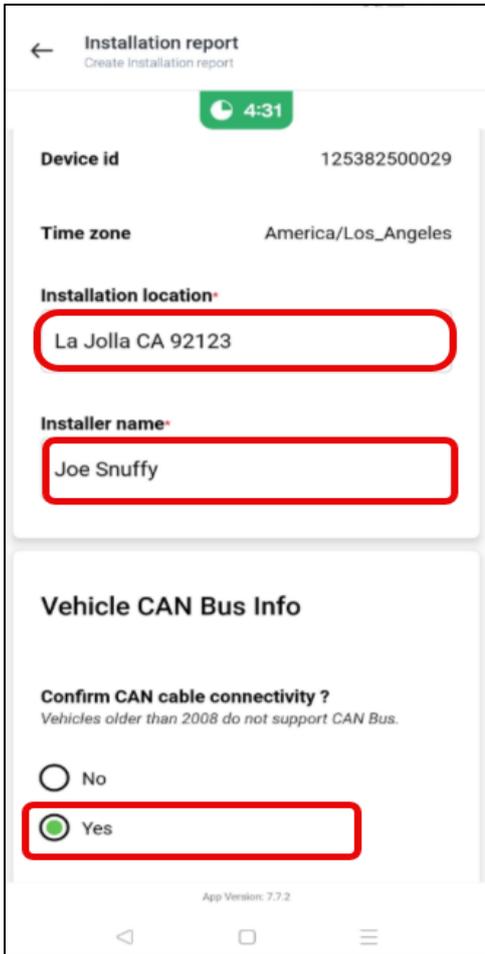
Tap on Installation Pictures



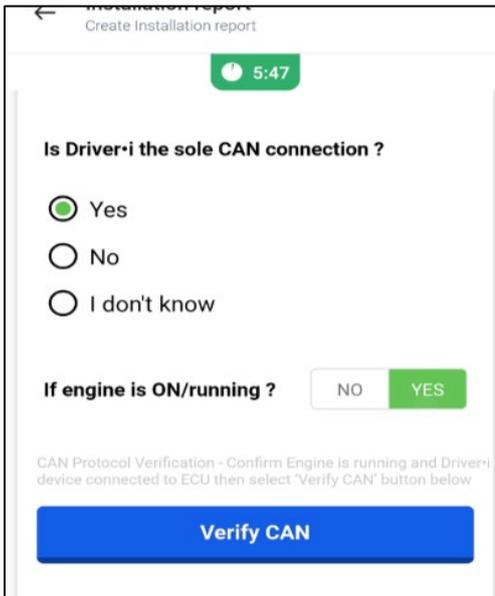
Take the pictures it requires, for example the VIN, Camera position and Cellular/GPS Module Position.



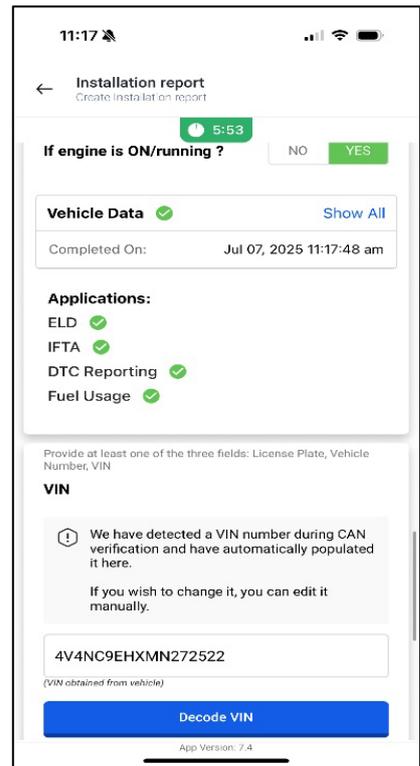
Tap on Vehicle Information



Continue to fill out Vehicle information. In this section you will fill Vehicle CAN cable connectivity. Click Yes, if click Yes, click on the CAN connector adaptor cable type.



Click Yes if engine is ON/running and finally "Verify CAN"
 Note: Engine needs to be running to accomplish CAN checks.



Successful CAN check done.
 Press "<-" to return to the configurations

← **Installation report**
Create Installation report

5:12

Provide at least one of the three fields: License Plate, Vehicle Number, VIN

VIN

Enter VIN

Decode VIN

I don't know VIN

OR

Scan VIN

Scan appropriate barcode or QR code for vehicle VIN.

Vehicle number (Optional)

License plate number (Optional)

GVWR (Gross Vehicle Weight Rating)*

lb

Optional Fields

Save Report

Once all the required information has been filled in, tap on Save Report to finish installation.

DR-20 LED INDICATORS



LED 1 Status (Left-side LED)	LED 2 Status (Right-side LED)	Description	Possible Solutions
Flashing RED	OFF	Device is booting up and flashing RED should last for 15 seconds.	N/A
OFF or solid RED or flashing RED for more than 15 seconds	OFF	There is an error	Please contact support
GREEN	GREEN	Privacy mode is OFF. Inward camera is ON and recording.	N/A
GREEN	RED	Privacy mode is ON. Inward camera is OFF and not recording.	N/A
GREEN	OFF for more than 15 seconds	There is an error	Please contact support

Note: If driver-facing camera is disabled, LED 2 will always be RED. The Privacy Mode is activated when the vehicle speed is 0 MPH for 3 to 4 minutes. The Camera is ready to record after the 25 seconds boot-up time. After ignition key/vehicle is OFF, camera recording is based on "Recording Options" set by the Safety Manager.

For questions or escalations, please visit Netradyne Support at www.netradyne.com/support
 Email: support@netradyne.com Phone: (833) GRN-ZONE or 833-476-9663