

# **DriveriHub Installation Guide**

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## **1** Introduction

DriveriHub is an external device that enables you to extend Driveri to connect to external cameras and offer a 360<sup>°</sup> view of the vehicle. Customers can add up to 4 external cameras to the existing installation. DriveriHub connects to Driveri wirelessly and enables customers to seamlessly request videos over the IDMS platform for coaching or event analysis.

This document describes the components of DriveriHub and walks you through the instructions to install DriveriHub and pair it with the Driveri device.

## 2 Pre-Requisites for Installation

Before you begin installing DriveriHub, ensure that you have the following components and vehicle information handy.

### 2.1 Components Required for Installation

The following table lists the components required to install DriveriHub:

### 2.2 Installer App

- DriveriHub
- Wi-Fi antenna (comes with DriveriHub)
- Power Cable (comes with DriveriHub)
- External Camera(s)
- Camera Extension Cable(s)
- Camera side mirror mounting bracket(s)
- Installer App
- 7-Way connection if mounting cameras on a detachable trailer if required
- Dielectric grease

### 2.3 Vehicle information

The following information is required to order the correct DriveriHub equipment:

- Vehicle Make, Model, and Year
- Vehicle Identification Number (VIN)
- Picture of the mirror bracket (in some cases)
- Position on vehicle to mount cameras. For example, Driver and Passenger mirrors, rear of vehicle, or side of vehicle.
- Expected views

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#### External Cameras and Extension Cables

- There are different types of cameras, both vertically mounted, and horizontally mounted. The choice of camera depends on the application. It is very important that the correct camera is installed for the correct image orientation.
- Various resolution and heated chip cameras are sometimes required.

Every vehicle will need an extension cable to reach from the camera to the DriveriHub. The length of cable may vary between vehicle types. Extension cable lengths range from 3 meters to 20 meters

#### **Choosing placement of DriveriHub**

• Chose a dry location within reasonable distance of the vehicles 12V power source. (Behind the dash, under the "dog house", etc.) Keep in mind the power cable is 6 ft long. (Example pics below)



- Route the power cable from power source to the DriveriHub
- Route the Wi-Fi antenna toward the upper part of the dash if possible.
- The Wi-Fi antenna will need to be within 6-8 feet of the Driveri camera for optimal connectivity.
- Secure the antenna with the attached 3M tape, or zip tie it off.
- The Wi-Fi antenna does not need to be on top of the dash like the GPS antenna (Driveri)
- Do not mount the DriveriHub at this point. You may need access the QR code on the side of the Dhub

## 3. Installing Cameras

- Using vehicle-specific and/or universal mounting brackets, attach the cameras to the vehicle facing the rear (Pics below)
- Keep in mind there are vertical cameras and horizontal cameras
- Final camera adjustments will be done while connected to the Installer App after installation



- Be sure to use dielectric grease on all external cable connections to prevent corrosion.
- connection with no grease used



• Route the camera extension cable from the camera to the interior of the vehicle to the DriveriHub.





- Make sure to keep the extension cable away from moving parts and pinch points, attaching with zip ties along the way.
- Wrap up any access cable inside prior to connecting cable to the DriveriHub.
- Connect the extension cables to the DriveriHub ports 1&2 (1 Driver side- 2 Passenger side)

#### \*If installing cameras on trailer see 4.1

### 4. Dhub power connections

- Connect the Red wire to a Constant 12V Battery source
- Connect the White wire to an Ignition 12V source
- Connect the Black wire to a solid ground source



Note the following points regarding the DriveriHub LED indicators:

• ERR light flashes RED constantly:

o Indicates that the Wi-Fi module is recognized by the DriveriHub and is operating normal.

o If no flash is present (or red light is solid), it indicates that the DriveriHub is not working properly, and troubleshooting must be done.

- PWR light will be solid GREEN.
- SD light will be solid GREEN.
- Device must be in the locked position to record.
  - If the key is used to place device in the unlocked position, all lights will turn off and the device will not function.



### 4.1 Installing external trailer cameras in conjunction with the truck cameras

4.1.1 Route the extension cables from Dhub ports 3&4 to the rear of the trucks 7-Way connector



- 4.1.2 Labeling the extension cables on each end help consistency
- 4.1.3 The 7-Way socket will need to be installed near the existing 7-Way
- 4.1.4 A 7-Way bracket and hardware may be needed



- 4.1.5 The Truck side 7-Way and the Trailer side 7-Way cable connections are different.
- 4.1.6 Truck side pic 1 (TPE2-7CAB) Trailer side pic 2 (TPE2-7-TRK)



Trailer 7-Way is mounted on the front of the Trailer near the 7-Way and Gladhand connections

A 7-Way bracket and hardware may be needed for the trailer as well.





Route the extension cables to the chosen camera mounting positions on the trailer It helps to route the cable along with existing cables or airlines.



## 5. External Camera Settings in IDMS

The camera configurations can be made at the vehicle level and at the Fleet level.

### 5.1 Configuring Camera Settings at the Vehicle Level

To configure the camera settings for a vehicle:

- 1. Navigate to **Provisioning & Configurations > Vehicles**.
- 2. Click the **Configurations** tab.

	Vehicles Provisioning & Co	infigurations / Vehicles / Configurations	lons				
<u>ж</u>							
4	Sumr	nary Configuration	s				
G					Account Default	Custom Configured	Search by Vehicle Number
2	ID Internal	Vehicle Number	Camera Configuration ▼	Audio Recording T	In-cab Audio Alerts T	Vehicle Diag	nostics T
B	1939	16301178	•	•		٠	View / Edit
×	2473	26300001		•	•		View / Edit

3. Click **View/Edit** corresponding to the vehicle for which you want to edit the camera settings.

	V26300011 Vehicle Number	Cancel Apply Changes
Search Configuration	Camera Configuration CReset to account default	_
Camera Configuration	Outward Camera	Inward Camera
Audio Recording	<ul> <li>External Camera 1</li> </ul>	External Camera 2
In-cab Audio Alerts	External Camera 3	External Camera 4
Vehicle Diagnostics		
	Note: If the vehicle's camera is ON when this configuration is changed, it will restart and video will not be available for up to 2 minutes, so please plan accordingly. We recommend changing the configuration while the vehicle is parked.	

All camera views of a device can be enabled or disabled for a vehicle except the Outward Camera.

4. Click **Apply Changes** to save the changes.

### 5.2 Configuring Camera Settings at the Fleet Level

To configure the camera settings for the Fleet:

- 1. Navigate to **Provisioning & Configurations > Configurations**.
- 2. In the **Camera Settings** section, click **Camera Configuration**.

				Edit Click on <i>Edit</i> to start making changes.
	Search Configuration			
		Camera Configuration		
	Alerts	Configure all the cameras individually based on the Fleet re	quirement.	
	Dashboard Alerts Speed Settings	Refer "Edit Configuration Parameters for Camera Settings"	for details.	
	In-cab Audio Alerts	Outward Camera (default true) Status of the outward camera		
	In-cab Over Speeding Threshold	Left Camera (default : false) Status of the left camera		
	Driver Assignment	Right Camera (default : false) Status of the right camera		
۶	Driveri App Based Assignment	Inward Camera (default : true)		
	Visual Login System	Status of the inward camera	_	
	VLS Crop Frequency - Internal	External Camera 1 (default : false) Status of the external camera 1	Ð	
	Performance Management	External Camera 2 (default : false) Status of the external camera 2	Ð	
	GreenZone Score Threshold Configurations	External Camera 3 (default : false) Status of the external camera 3	$\Box$	
đ	App Settings	External Camera 4 (default - false) Status of the external camera 4	Œ	

- 3. Click **Edit** and enable/disable the Camera views, as required.
- 4. Click **Review Changes** to review the changes made.
- 5. Click Save.

### 5 Pairing the DriveriHub with the Driveri Device

After installing DriveriHub on the vehicle and making all required connections, it must be paired with the Driveri device using the Driveri Installer App.

For more information, refer "Driveri Installer App".



1. Log in to the Driveri Installer App.



To pair the DriveriHub with the Driveri device:

- 2. Tap Connect to Driveri
- 3. Tap Additional Cameras



- 4. Tap **Configure/Pair Driveri with DriveriHub**.
- 5. Tap **OK**



6. Scan or type the serial number.

9:53 1	al ≎ ∎
← Configure/Pa Pair Driveri with	<b>air DriveriHub</b> DriveriHub
Driveri# 264015432 w Tap this ban Please do not press H0	ill disconnect in 360 seconds. ner to increase time. DME button while connected to Driveri.
. 0.1 (** rational ** **	eedme
	SN: 194400114 Model: VPMDVR - 100 SKU: VPMDVR3202 FCC : 2AM8RVPMDVR - 100
QR Code	Serial Number
Scan s	serial number
	OR
213100484	
Configure	/Pair DriveriHub

7. Tap Configure/Pair DriveriHub.



#### 8. Tap **OK to complete the pairing process**

9:53 <b>7</b>
← Configure/Pair DriveriHub Pair Driveri with DriveriHub
Driveri# 264015432 will disconnect in 355 seconds. Tap this banner to increase time. Please do not press HOME button while connected to Driveri.
- nerodine
Driveri Installer To configure/pair DriveriHub, Driveri needs to reboot in order to apply the configuration.
Please reconnect with Driveri to check pairing.
Ok
Scan serial number
OR
213100484
Configure/Pair DriveriHub
App Version: 5.8

9. To check external camera views, reconnect to DriveriHub, see step 6



10. Click on the external cameras





11. Check the camera views on the Installer App. Select the individual camera views or tap **View All** to see all views at once.

