



Safety Track

ST-201

Installation and Operation Manual



A detailed guide on how to install and operate your new fleet management system

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This is a step by step guide that will walk you through installing the ST-201.
Please follow each set otherwise your system may not work properly.

If you have any questions regarding the installation or need professional installation, please contact our support team at support@safetytrack.net or dial 734-325-6060.

Whats in the Box

- ST-201 Dash Cam with chosen memory capacity pre-installed
- Power Harness
- GPS antenna
- Tools (security screw driver and camera adjustment tool)
- 3M adhesive

Asset App and Fleet App

Be sure to download both our installation asset app and Fleet App. They are both available on the Apple App Store and Google Play Store.

Notes and Precautions

- Please make sure power connections are clear to you before you make the connection.
- Please follow this guide STEP BY STEP do not skip around.
- It is highly recommended to have a professional installer install these units.
- Keep the Dash Cam System away from liquids, heavy dust and dirt, fire and extreme temperatures.
- If possible keep the equipment in a well ventilated area.
- Review packing list or “whats in the box” to make sure you have everything.
- **NOTE:** Any modifications to the device or software outside of company standards without company approval are not a responsibility of Safety Track and will void the warranty.

Before using the 3G/4G product, make sure you have read the following safety precautions

- Low-power radio frequency motors of type-approved certification, without permission, companies, trade names, or users are not allowed to change frequencies, increase power, or change characteristics and functions of the original design
- The use of low-power radio frequency motors must not affect flight safety or interfere with legitimate communications. When interference is detected, they should be immediately disabled and improved until no interference can occur.
- Legal communications in the preceding paragraph refer to radio communications that are operated under the telecommunications law. Low-power radio frequency motors have to withstand the interference of legitimate communications or radio waves in industrial, scientific and medical applications.

Installation Steps

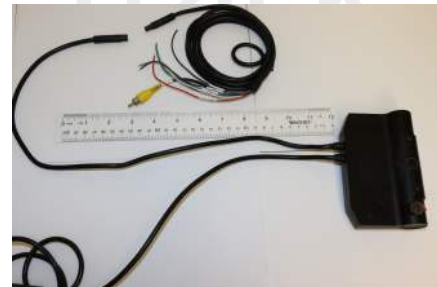
1. Placement Preparation

- Prepare for where you want to place the Dash Cam and GPS Antenna.
- We recommend placement of the ST-201 Dash Cam on the windshield, under the rear view mirror (shown in the image to the right).
- The GPS Antenna is normally placed with sightline to the sky on the dashboard (Circled in red).
- Before mounting, ensure cameras cannot be blocked and are in wiper range.



2. Locate Power Source

- It is common to tap into the ignition harness under the steering column. You can also tap into most fuse box panels if you have the means to do so.
 - Refer to the owner's manual in the vehicle you intend to do the installation to find these locations. Constant 12V power, Ignition/switch power and ground are required.
- The image to the right you will see that two cables stem from from dash cam.
 1. Power Harness
 2. GPS Antenna

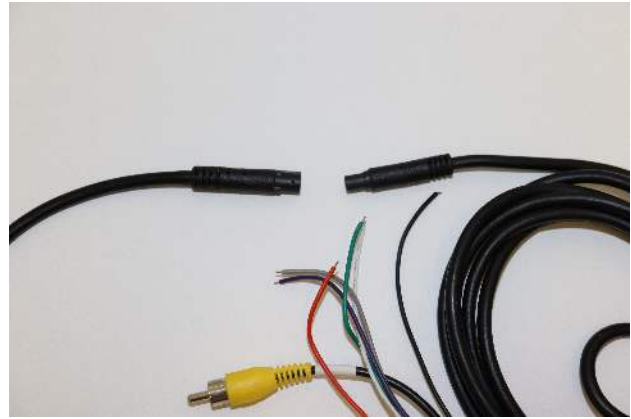


The power harness has several color coordinated labeled wires.

These are indicated below:

1. Power 8-36V (RED) —
2. ACC Ignition (GREY) —
3. GND Ground (BLACK) —
4. IO1 (PURPLE) — *Not Applicable
5. Sensor Out (WHITE) — *Not Applicable
6. ADC In (GREEN) — *Not Applicable
7. CVBS (YELLOW RCA) — *Not Applicable

- Tape back the wires that aren't used.
- Once your power connections have been made, connect the power harness adapter to the power harness pigtail (Cable 1.) stemming from the Dash Cam. Tape to ensure security of the connection.
- If your connections have been properly made you should hear a "Beep" from the Dash Cam indicating it has been connected to power.
- Once you hear the "beep" check the lights on the front face of the Dash Cam. It may take a few seconds for lights to appear once you connect power.



All lights will illuminate GREEN and will stay solid when functioning properly.

3. Mounting Dash Cam and GPS Antenna

On most vehicles the dash cam can be mounted right under the rearview mirror. Cables will be run into the headliner and down the A-pillar to power and to mount GPS.

Since your camera should be connected to power and to the network by now, you can test mount and aim the cameras by using the **Safety Track Fleet App**.



Mount the camera by peeling away the sticker on 3M adhesive on top of the camera. You may choose to adjust cameras prior to mounting. If so, see the step below.

Once mounted you can adjust the cameras by loosening the two screws on the face of the camera shown to the right (Circled in Red). Simply, Loosen, adjust, and tighten. Use the “L” shaped tool to do so.



Make the connection from your dash cam to your GPS antenna. Push until until you hear a “Click”. You can use electrical tape as well to further secure the connection.

The GPS antenna can be mounted on the dash near where the windshield meets the a-pillar. As long as it has sightline to the sky for a reliable GPS signal. The Antenna mounts with the attached 3M adhesive. See example image to the right.




4. Verification

Further verification is required with our support team please call **734-325-6060**

Specifications

Accelerometer-	Forward facing camera 1080P CMOS Sensor
	In car camera 1080P CMOS Sensor
Camera view angle (Diagonal)-	Forward facing camera view angle approx.130°
	In car camera view angle approx.120°
Voltage	(a). Active mode: 12V Input, 0.75A
	(b). Sleep mode: DC12V input, 2.5mA
	(c). Voltage input: DC9V- DC36V
Operating Temperature	-20°C ~70°C

Storage	(a). Class 10 micro-SDHC /SDXC Card 8GB or above recommended. Otherwise, the recording cannot proceed smoothly
	(b). Micro SD slot support 512GB storage max.
	Dual storage slot support 1TB
 Recording type	Forward facing camera resolution
	1920x1080 up to 30fps @ NTSC & 25Fps @PAL
	In car camera resolution
	1920x1080 up to 30fps @NTSC & 25fps @PAL
	Auto record when power up system; In car camera can be closed software.

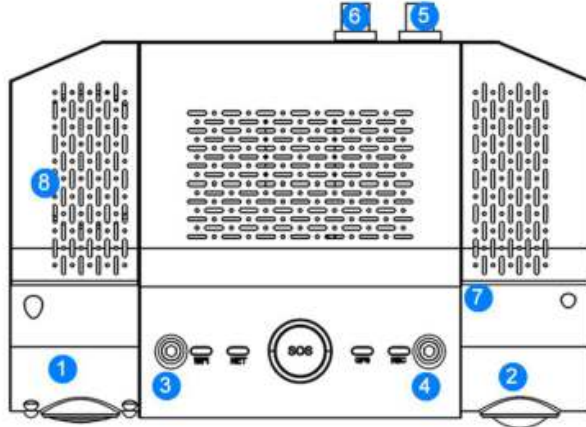
Record content	Image, date and time, sound, G-sensor, GPS
Recording format	(a). Specific format for software player
	(b). H.265 compression
Microphone	Built in high sensitive microphone
Time setting	Time calibration by GPS built in calendar clock takes over if no GPS signal.
G-Sensor	Internal 3D G-Sensor Accelerometer
4G LTE	(a). 4G network module on board (network module compatibility with local network)
	(b). support Global Fleet management

Output/ input device	(a). VIDEO OUT: TV-Out
	(1 Vp-p composite video output, 75 ohms)
	(b). Force Record Button: For emergency recording.
	(Trigger Flash LED)
	(c). REC: Recording indicator
	(Flash LED means SD Error)
	(Lights on means recording)
	(d). GPS: Recording indicator

Output/input device	(e). NET: NET indicator
	(Flash LED means Wireless network is not ready)
	(Lights on means wireless network already)
	(f). WiFi: WiFi indicator
	(Flash LED means WIFI network is not ready)
	(Lights on means WIFI network ready)
Accessory	(a). 2 Meter power cable
	(b). Bracket holder with 3M adhesive
	(c). wrench
	(d). Product CD

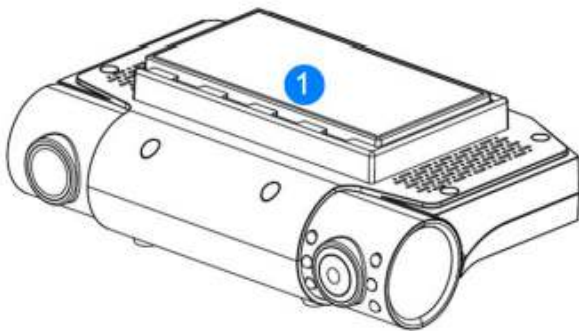
Camera Layout:

Front View



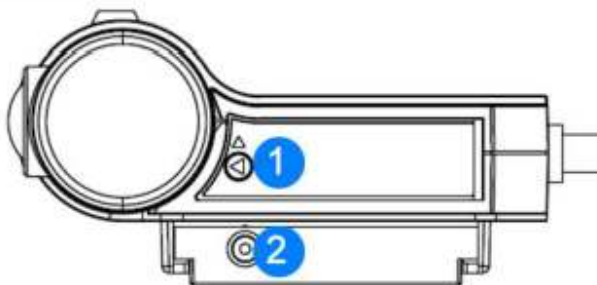
1. Front Camera
2. In-Cab Camera
3. Front Camera Adjustment Screw
4. In-Cab Camera Adjustment
5. Screw
6. Power
7. GPS
8. Microphone
9. Speaker

Back View



1. 3M double sided tape

Side View



1. Micro SIM card & Micro SD Card
2. Windshield bracket

How to Remove SD Card

On the forward facing camera side of the Dash Cam you will find the location of the door protecting the SD Card. Use the orange screwdriver key tool (pictured below) to unlock and open. Arrows indicate which direction to turn to lock and unlock. Push SD Card in till you hear a double “Click” releasing the SD card.



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