TecharraLevel

Wireless Vehicle Leveling Tool

User Manual

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1 Introduction

Thank you for choosing the TecharraLevel. The TecharraLevel is designed to help you level your vehicle when parked, providing comfort and stability for campers, RVs, and trailers, ensuring a stable and comfortable setup. Whether you're parking your RV or trailer, the TecharraLevel helps you achieve the perfect balance.

The TecharraLevel is a low-power vehicle leveling system designed to operate in an automatic power management mode. When the charging cable is connected via Type-C, the battery is completely disconnected from the system, preventing any power from being drawn(Only the TecharraLevelPro support).

After a set period of inactivity, with no motion detected and no app connection, the TecharraLevel will automatically enter sleep mode. The unit will wake up from sleep mode once motion is detected or the app is connected.

If the **'Wake on Motion'** setting is turned off, the TecharraLevel will enter sleep mode once the **'Idle Time Until Sleep'** limit is reached, and will only wake up when the TecharraLevel app is connected. This feature is useful for users who prefer to prevent the unit from activating while traveling, in case they forget to turn it off after their last use.

When you arrive at a new location and are ready to level your vehicle, simply open the app to start using the system.

Technical Specifications:

- Operating Voltage: 5V DC
- Wireless Range: 15 meters
- Operating Temperature: -10° C to 50° C (14° F to 122° F)
- Weight: 0.8 kg

2 Setup and Install

2.1 Install battery

Only the product TecharraLevelPro has the battery module installed, other models skip this step. Remove the 7 screws securing the lid, then lift off the lid and set it aside. Take the battery out of the packaging and install it with the positive (+) side facing up.

2.2 Install your TecharraLevel

Move the vehicle to a flat surface (such as a parking area) and use a traditional level (e.g., bubble level) to level the vehicle. Once the vehicle is leveled, install the TecharraLevel, ensuring it is positioned horizontally.

2.3 Start the TecharraLevel app

Go to your app store and search for ‘TecharraLevel’ to locate the app and download the app on each of the devices you plan to use with the TecharraLevel.
Open the TecharraLevel app on your phone. The app will automatically scan for the TecharraLevel, and once detected, you can tap the 'Connect' button to establish the connection. Afterward, You will be presented with a configure screen (figure 2).

2.4 Begin the TecharraLevel Setup

The TecharraLevel app features a Setup Wizard that will guide you through the setup process. Each step is outlined below, and completing one step will automatically take you to the next until the process is finished.
Step 1) Select your vehicle type (Figure 2). If your exact vehicle type is not listed, choose the one that most closely matches your vehicle and falls under the same category (towable or drivable). This is important as certain setup steps will vary depending on whether you select a towable or drivable vehicle. To help with your selection, a graphic of each vehicle type is displayed at the top of the screen as you make your choice. Once you've selected, tap the 'Next' button.

Step 2) Make your selections for Measurement Units and Temperature Units. Defaults for these options are based on the country you defined in the registration process so for most users these will already be set to the selections you will use.

Step 3) Enter the dimensions for the width and length of your vehicle (figure 4). Instructions

indicating where to take these measurements on your selected vehicle type are below the front/back and side graphic images of the vehicle.
Make your selections for Measurement Display Resolution.

Step 4) Make your selections for Installation Orientation, Idle Time Until Sleep, Wake on Motion, and Run Continuously. Contextual help is available for some settings and can be accessed by tapping the icon. Explanations for each setting are provided below:
Installation Orientation: This setting determines the orientation of the label after the TecharraLevel is mounted in its permanent location. Refer to Figure 6 for examples of installation locations and their corresponding orientations.
Run Continuously: This setting is best used with an external power source. When enabled, the device will not enter sleep mode while the switch is on.
Wake on Motion: When enabled, this setting causes the unit to wake from sleep mode when motion is detected. If turned off, the unit will ignore motion during sleep mode and will require the on/off switch to be cycled to wake it.
Idle Time Until Sleep: Available only when **Wake on Motion** is enabled, this setting defines the time interval before the device enters sleep mode.

Step 5) When you're ready to complete the configuration, tap the ‘Set Level’ button. You can also use this button to reset the level at any time in the future if necessary.
NOTE: If you want to reset TecharraLevel configuration, you can tap the ‘config’ on the top menu after leveling the vehicle.

2.5 Set the Alias

Tap ‘Rename’ in the top menu to assign an alias to the TecharraLevel. Note that the alias is specific to the current phone; if you switch devices, you'll need to reconfigure the alias.

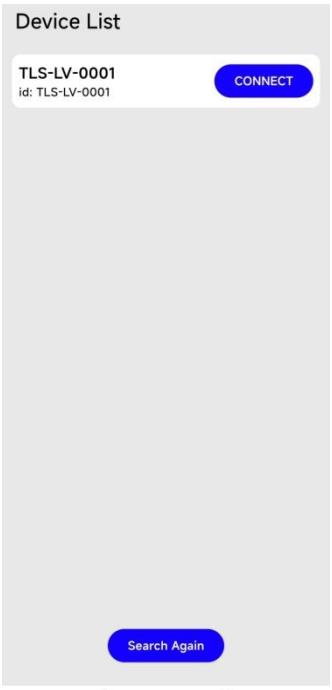

figure 1

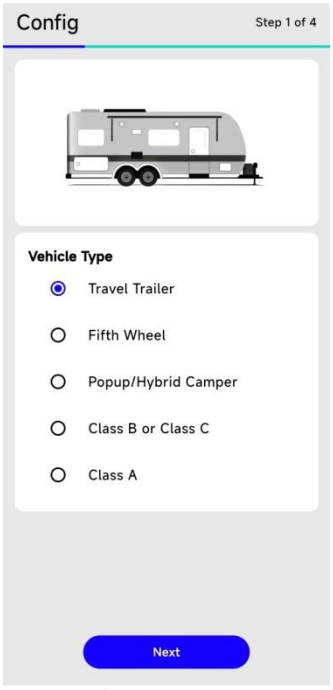

figure 2

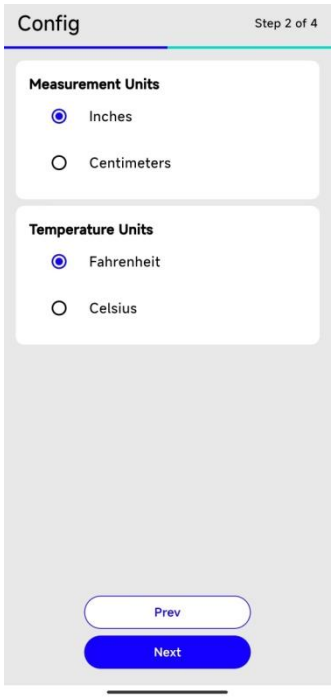

figure 3

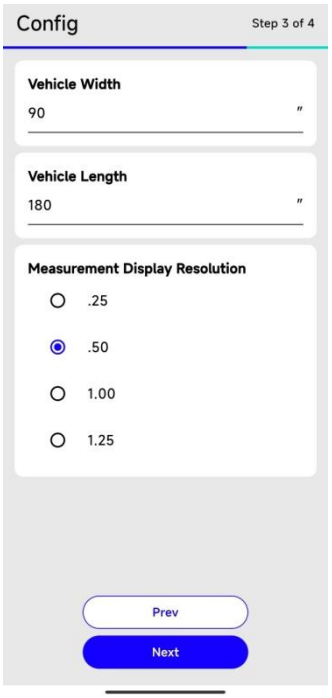

figure 4

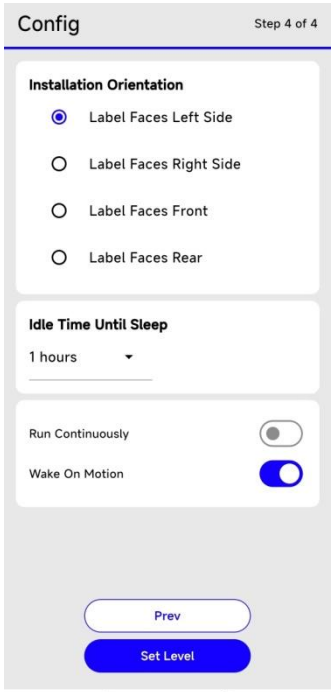
Config
Step 4 of 4
Installation Orientation
Label Faces Left Side
Label Faces Right Side
Label Faces Front
Label Faces Rear
Idle Time Until Sleep
1 hours
Run Continuously
Wake On Motion
Prev
Set Level

figure 5

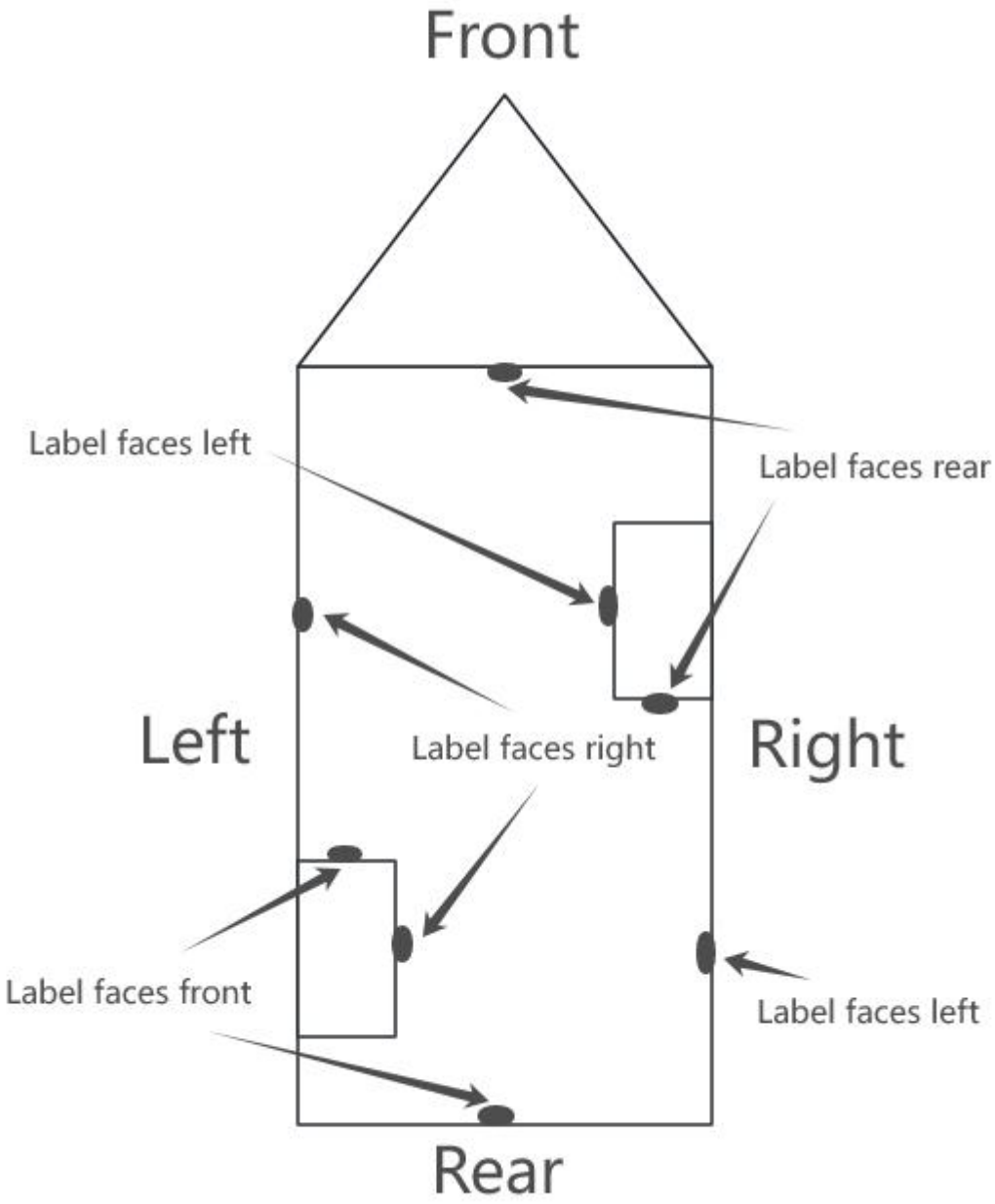
Front
Label faces left
Label faces rear
Left
Label faces right
Right
Label faces front
Label faces left
Rear

figure 6

3 How to use the TecharraLevel

3.1 Position your vehicle

Move your vehicle to the location where you would like to begin leveling.

3.2 Connect to the TecharraLevel

After installing and configuring your TecharraLevel unit and app, you're ready to begin leveling your vehicle. Simply open the TecharraLevel app, which will automatically detect and connect to your TecharraLevel unit. Once connected, the app will display the leveling screen(figure 7).

3.3 Level your vehicle from side-to-side

When the vehicle is not level, a red arrow will appear on one side of the trailer graphic, indicating which side needs to be raised to achieve a level position. The displayed measurement shows how much height is required on the side where the arrow is pointing.

If you are using ramps for leveling, place the ramp(s) either in the front or rear of the tire(s) on the side indicated by the red arrow. Then move the trailer onto the ramp(s) until the measurement distance displays 0.00(figure 9).

If you are using leveling blocks, stack them to the height indicated by the displayed measurement and place them in front or rear of the tire(s) on the side indicated by the red arrow. Then move your vehicle so that the tires are on top of the blocks and check the current measurement distance. If your vehicle is level, the displayed measurement distance will be 0.00(figure 9). If the displayed measurement distance is not 0.00(figure 7), then note the measurement distance and move the vehicle tire(s) off the blocks and add or remove blocks equaling the measurement distance that was displayed when the tire(s) were on the blocks. Once again, move the vehicle tire(s) onto the blocks and check the measurement distance to insure that the vehicle is now level from side-to-side.

3.4 Save hitch position(optional)

If you're leveling a trailer, you'll need to disconnect it from the tow vehicle before leveling it from front-to-back(figure 11). Release the hitch from the tow vehicle and extend the trailer's jack until the hitch is just above the ball or hitch plate (for a 5th wheel hitch).

On the Leveling screen, tap the **'Set'** button in the **'Hitch Position'** section at the bottom left. This will save the current position of the trailer hitch. You can use this saved position to return the hitch to its original height when you're ready to reattach the trailer to the tow

vehicle. If your vehicle is not leveled from side-to-side, tap the 'Set' button will return an error.

3.5 Level your vehicle from front-to-back

Once your vehicle is level from side-to-side, and now you can level it from front-to-back. For this step you will be using the bottom section of the Leveling screen.

As with side-to-side leveling, if the vehicle is not level front-to-back, a red arrow will appear near the front of the trailer graphic. An upward arrow indicates the front of the vehicle needs to be raised, while a downward arrow indicates it needs to be lowered.

Simply adjust the trailer's tongue by raising or lowering it as directed by the arrow in the bottom section of the Leveling screen. When the vehicle is level front-to-back, the displayed measurement distance will be 0.00(figure 9)—just like in the side-to-side leveling process.

3.6 Recall hitch position(optional)

If you are leveling a trailer, you can recall the saved hitch position from Step 3.4 to help return the trailer tongue to the position it was in when you detached it from the tow vehicle. To do this, tap the **'Recall'** button in the **Hitch Position** section of the Leveling screen. This will open the **Recall Hitch Position** screen(figure 12).

The Recall Hitch Position screen displays a side view of the trailer, along with a red arrow pointing up or down, and a measurement distance. The measurement indicates how much the trailer tongue needs to be adjusted (up or down, as shown by the red arrow) to return to the previously saved hitch position. Moving the tongue in the direction indicated by the arrow will decrease the displayed distance. The tongue is at the saved position when the displayed measurement distance is 0.00 (figure 9).

The **Hitch Position Save Date** is also shown at the bottom of the screen, indicating when the hitch position was last saved. Once you've completed the recall process, tap the **'Return'** button at the bottom of the screen to go back to the Leveling screen.

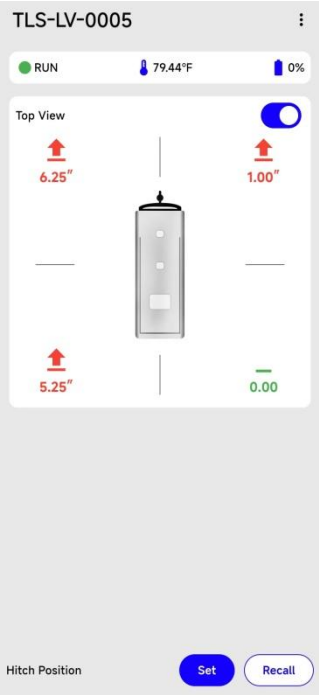

figure 7

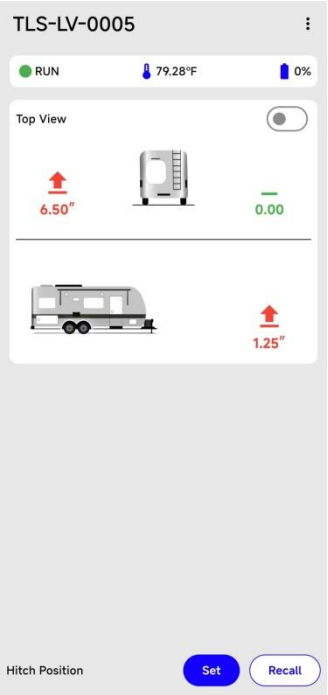

figure 8

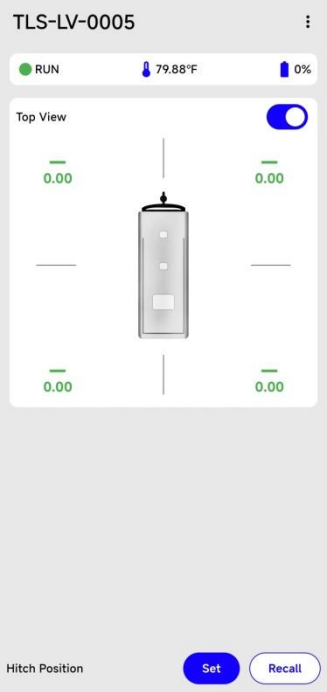

figure 9

figure 10

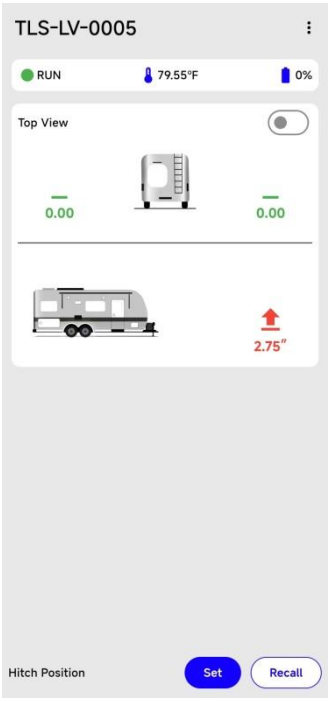

figure 11

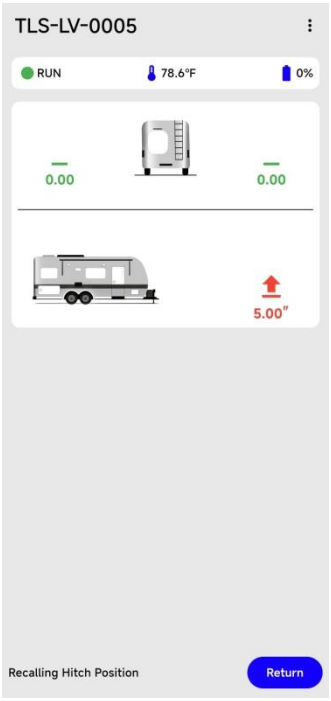

figure 12

4 Support

Please contact us any time with questions or product suggestions.

Email: talos@talostec.com
Web: www.talostec.com

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
•Reorient or relocate the receiving antenna.
•Increase the separation between the equipment and receiver.
•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
•Consult the dealer or an experienced radio/TV technician for help.
Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF Exposure Information
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.