

**ROMOSUR**

MAKE AUTO SAFE



# User Manual

RV Leveling System

Model: AM50-PRO

Functional descriptions in this manual are subject to change without notice

## Catalog

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## AM50 PRO Leveling System

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The AM50-pro is the world's first APP-free RV Leveler with dedicated display for level status indicating. Ideal for RVs, Campers, Motorhomes, Travel Trailers, Fifth Wheels and etc. It's a universal leveler on various scenarios.

**Innovative Split Design:** A transmitter communicates the RV's status, paired with a dedicated real-time display for effortless leveling. No need for an extra device monitor your RV's stability directly!

**Hassle-Free Setup:** Installs in minutes with a one-click start. No apps or parameter settings required. Keep your phone free for calls or Bluetooth tunes while you park and level!

**6-Axis Precision:** Engineered with drone-grade 6-axis gyroscope technology, offering unmatched accuracy in angle calculations and motion detection for efficient leveling.

**Robust Signal Transmission:** Utilizes industrial-grade transmitter for superior connectivity over Bluetooth. Expect zero delays and a coverage radius exceeding 50 meters.

## Accessories



Display



Transmitter



Cigarette Lighter  
Cable(3m)



Type C power  
cable (1.5m)



Bracket



Screw



Double-Sided Tape



User Manual



Warranty Card



Storage Bag

If any accessory missing after opening the box, please kindly contact us for help instead of retruning it.

## Step 1: Installation of the Transmitter



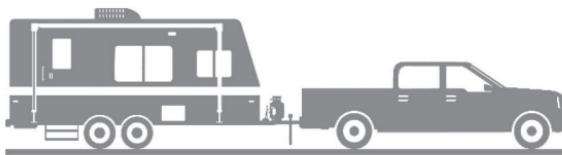
Make sure the arrow is pointing upward and install it on the wall  
perpendicular to the floor.  
(Use double-sided tape or the screws to fix )  
(Refer to page 6 for the Transmitter orientation setting)

## Step 2: Installation of the Display



Install with the bracket or place it in a position that does not interfere with driving  
(refer to pages 7-8 for Display operation)

## Step 3: Level Calibration

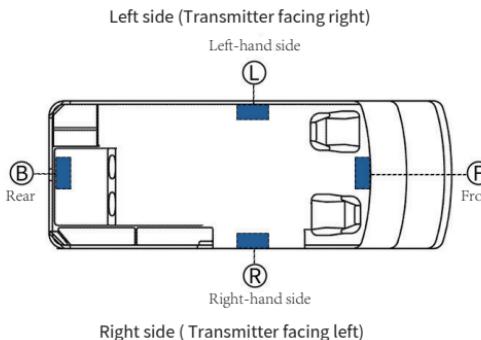


Turn the display and transmitter on and wait for the signal connected, press and hold the left and right buttons for 3 seconds at the same time, and the calibration is done when hear a beep.   
(This step requires the RV to be parked on level ground )

## Transmitter Orientation Setting

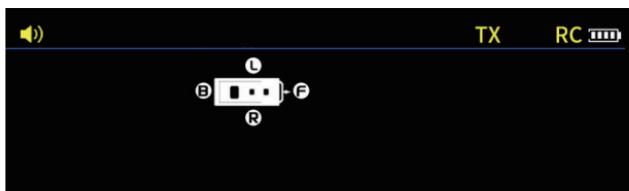
Selecting a suitable location to install the transmitter

Rear side (Transmitter facing forward)

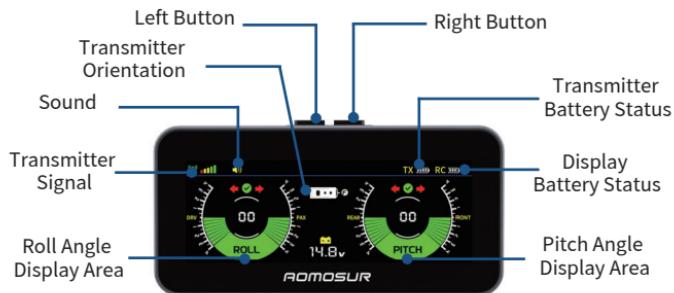


Front side (Transmitter facing rear)

Press and hold the left button for 3 seconds to enter the setting mode,  
short press the left button to select the installation location,  
Press and hold the left button for 3 seconds to save and exit



## Interface of the Display



- ① Inclination display range:  $\pm 4^\circ$
- ② Minimum interval accurate to  $0.1^\circ$
- ③ Level complete while tilt angle less than  $0.5^\circ$

## Button Application



1. Short press the right button to turn on/off
2. Press and hold the right button for 3 seconds to turn on and off the sound



3. Short press the left button to switch day/night mode while the display is power-on.

## Transmitter and Display Signal Connection

1. Short press the yellow button in the mid to turn on the transmitter, the power indicator shows red for power on; short press the right button to turn on the display.



2. Wait a few seconds for auto connection after powering on.



3. When the display is connected to the cigarette lighter cable, the display will automatically shut down after 5 minutes when the vehicle is turned off, and the transmitter will automatically shut down 5 minutes after the display is turned off (no need to manually shut down).

## Vehicle Roll Angle Display Area



Red arrow pointing left(DRV):  
Tilt to the left



The green checkmark:  
RV leveled



Red arrow pointing right(PAX):  
Tilt to the right

## Vehicle Pitch Angle Display Area

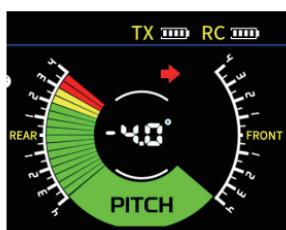
Red arrow pointing REAR:  
Tilt backward



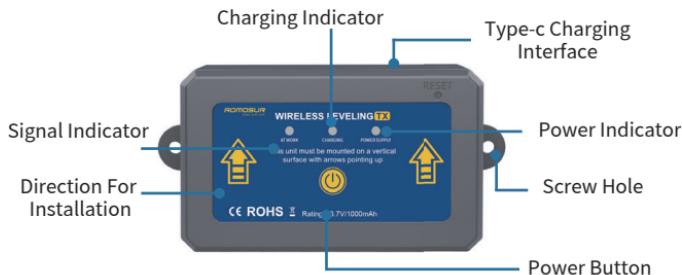
The green checkmark:  
RV leveled



Red arrow pointing FRONT:  
Tilt forward



## Structure of the Transmitter



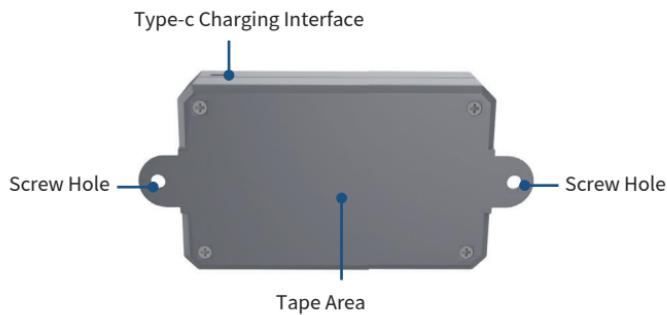
Disconnected  
Connected



Charging  
Charging complete



Power off  
Power on



## 1. Display Parameters

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Power Supply:	Lithium Battery 3.7V/DC11.5V~30V
Operating Current:	120mA;
Power:	1.2W;
Operating Temperature:	-20°C ~ 80°C;
Tilt angle:	±4°
Roll angle:	±4°
Voltage Measurement Accuracy:	±0.5v;
Display Weight:	138g;
Display Size:	127*60*25mm ;

## 2. Transmitter Parameters

Power Supply:	Lithium Battery 3.7V/TPYE-C:5V;
Operating Current:	13mA;
Power (output):	0.8W;
Operating Temperature:	-20°C ~ 80°C;
Transmitter Weight:	106g;
Transmitter Size:	108 (136) *31*66mm ;

## FAQ

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Q: Which way should I choose to install the transmitter?

A: We recommend using screws to intall, or the double-sided tape instead.

Q: What can I do if the transmitter won't power on?

A: You can use the Type C cable to connect to the power supply to see whether the charging status is normal or not.(CHARGING indicator light is not on for not charging, red for charging, green for charing complete)

Q: How to check the transmitter power level?

A: Turn on the power of the transmitter and the display, the power level of the transmitter (TX) will be displayed in the upper right corner of the display .

Q: What should I do if the display shows that the signal disconnected ?

A:First of all, make sure the transmitter is turned on (Power Supply indicator red means it is turned on).If the transmitter is turned on, please turn off the transmitter and display power and then turn on the power again, wait for a few seconds.

Q: How to charge the transmitter?

A: Use the Type C cable to charge the transmitter by connecting it to a power bank or cell phone charger etc.

## After-sales service

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### Aftermarket Warranty

- ◆ AOMOSUR The main unit is covered by a 1-year warranty from the date of purchase by the customer. The accessories included in the unit are covered by a 1-year warranty from the date of receipt by the customer.

### Warranty way

- ◆ Repair or replace equipment based on specific failures;
- ◆ We guarantee that all replacement parts, accessories or equipment are original and new;
- ◆ Within 90 days after the customer purchases the product, if there is a failure and the video and pictures are provided, we will bear the shipping cost and provide the corresponding accessories to the customer free of charge for replacement. If the product is purchased more than 90 days, the customer will bear the corresponding cost and we will provide free accessories to the customer for replacement;

### The following are not covered by the free warranty

- ◆ Products purchased through informal channels;
- ◆ Damage caused by failure to use and maintain the product in accordance with the requirements of the product manual;

At AOMOSUR, we take pride in our superb design and exceptional customer services. We would be happy to provide you with additional support or service.

### Please Note

- ◆ AOMOSUR reserves the right to change product design and specifications without prior notice. The appearance and color of the actual product may differ from that shown in the manual, please refer to the actual product. We have done our best to try to make all the descriptions in the book accurate, but there are still inevitably inaccuracies, if you have any questions, please contact the dealer or after-sales service center, the company has the final interpretation of the product, and does not bear any consequences arising from misunderstanding.

## Fcc Warning

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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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

## AOMOSUR Technology Co., Ltd

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