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XIAHEEO TY22

XIAHEEO TY22 Wireless Solar TPMS Tire Pressure Monitoring System

User Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your XIAHEEO TY22 Wireless Solar Tire Pressure Monitoring System (TPMS). This system is designed to monitor your vehicle's tire pressure and temperature in real-time, enhancing driving safety by providing timely alerts for abnormal tire conditions.

Package Contents

Please verify that all items are present in your package:

- 1x TPMS Display Monitor
- 4x External Cap Sensors (Front Left, Front Right, Rear Left, Rear Right)
- 1x USB Charging Cable
- 1x Wrench for sensor installation/removal
- 4x Anti-theft nuts
- 1x User Manual



Figure 1: Contents of the XIAHEEO TY22 TPMS package. Includes the display monitor, four external sensors, a USB charging cable, a wrench, anti-theft nuts, and the user manual.

Product Features

- **Real-time Monitoring:** Displays accurate tire pressure and temperature for 4 tires simultaneously.
- **Multiple Alarm Modes:** Includes fast/slow leak, low/high pressure, high temperature, sensor fault, and low battery alarms.
- **Clear Digital LCD Screen:** Bright backlight and clear readings with adjustable units (Bar/Psi, ℃/℉).
- **Wide Compatibility:** Suitable for 4-tire vehicles like cars, SUVs, MPVs, and pickups with a pressure range of 0-81 Psi (0-5.6 Bar).
- **Adjustable Angle:** Monitor supports multi-angle rotation for optimal viewing.
- **Durable External Sensors:** Water, dust, and snow-sealed for reliability in various conditions.
- **Vibration Sensing:** Automatic power on/off with vehicle vibration to save power.
- **Dual Charging:** Supports solar power and USB cable charging.



Figure 2: The TPMS display monitor showing real-time tire pressure and temperature readings for all four tires, ensuring driving safety.

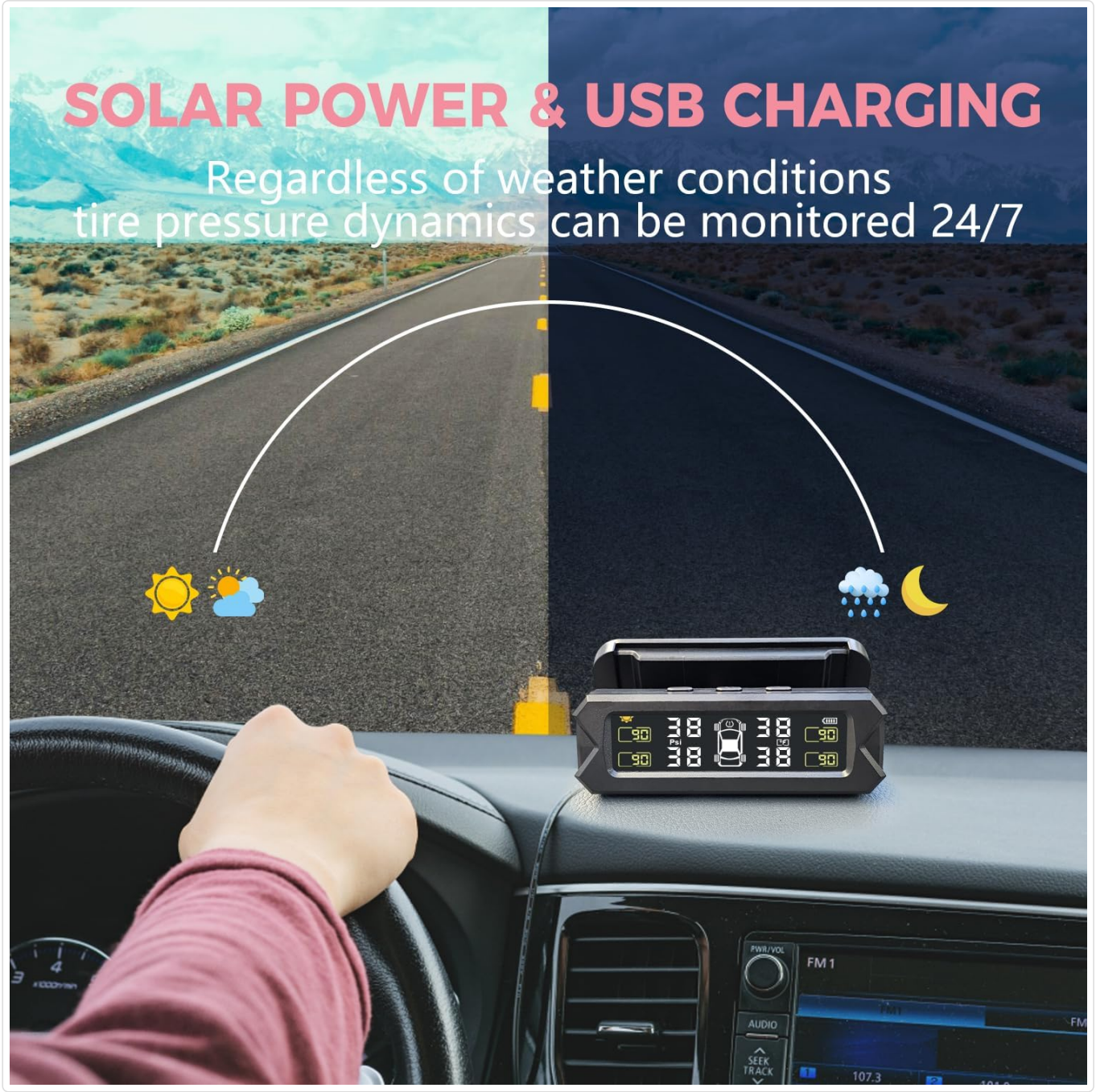

Figure 3: The TPMS monitor illustrating its dual charging capabilities: solar power for continuous operation and a USB port for charging in low light conditions.

Setup Instructions

1. Monitor Installation

1. Choose a suitable location on your vehicle's dashboard or windshield that does not obstruct your view.
2. Clean the surface thoroughly before attaching the monitor's base.
3. Secure the monitor using the provided adhesive pad or bracket. Ensure it is stable and the screen is easily visible from the driver's seat.
4. Adjust the monitor angle for optimal viewing.



Figure 4: Illustration of two common installation positions for the TPMS monitor: on the dashboard or attached to the windshield, with adjustable viewing angles.

2. Sensor Installation

Install the external sensors on your vehicle's tire valves. Each sensor is marked for its specific tire position (FL: Front Left, FR: Front Right, RL: Rear Left, RR: Rear Right).

1. Unscrew the original valve cap from the tire valve.
2. Screw on an anti-theft nut onto the tire valve stem.
3. Screw the corresponding sensor (e.g., FL for Front Left) onto the tire valve stem until it is hand-tight.
4. Using the provided wrench, tighten the anti-theft nut against the sensor to secure it.
5. Repeat for all four tires.

Important: If a sensor does not work properly after the initial installation, remove it and reinstall it, then wait a short while for it to activate.



Figure 5: Close-up view of the external cap sensors and the anti-theft nuts, designed for secure and waterproof installation.

Operating Instructions

1. Power On/Off

- **Automatic Power On:** The TPMS monitor is equipped with a vibration detection function. When you start your vehicle's engine, the monitor will detect vibration and automatically power on.
- **Automatic Sleep Mode:** If the monitor does not detect vibration for a period (e.g., when the vehicle is parked), it will automatically enter sleep mode to conserve power.

2. Display Information

The LCD screen displays real-time data for each tire:

- **Tire Pressure:** Shown in Psi or Bar.
- **Tire Temperature:** Shown in ℃ or ℉.
- **Battery Level:** Indicates the charge level of the monitor's internal battery.

- **Sensor Battery Status:** Individual indicators for each sensor's battery.



Figure 6: The large LCD color display of the TPMS monitor, designed for easy readability of tire pressure (Psi/Bar) and temperature (°F/°C) in various lighting conditions.

3. Alarm Modes

The system provides 6 types of alarms to alert you to potential tire issues:

- **Fast Leak Alarm:** Rapid pressure drop detected.
- **Slow Leak Alarm:** Gradual pressure loss over time.
- **Low Pressure Alarm:** Tire pressure falls below the preset minimum.
- **High Pressure Alarm:** Tire pressure exceeds the preset maximum.
- **High Temperature Alarm:** Tire temperature exceeds the preset maximum.
- **Sensor Fault Alarm:** A sensor is malfunctioning or not transmitting data.
- **Sensor Battery Low Power Alarm:** A sensor's battery is low and requires replacement.

To stop an active alarm, press any button on the monitor.



Figure 7: Visual representation of the multiple monitoring and alarm modes, including alerts for tire leakage, abnormal pressure, high temperature, and sensor malfunctions.

4. Charging the Monitor

The monitor can be charged via two methods:

- **Solar Charging:** Place the monitor in direct sunlight on your dashboard or windshield. The built-in solar panel will charge the internal battery.
- **USB Charging:** Connect the provided USB charging cable to the monitor's USB port and a 5V USB power source (e.g., car charger, computer USB port).

Ensure the monitor is adequately charged for continuous operation, especially during prolonged periods without sunlight.

Maintenance

1. Sensor Battery Replacement

When a sensor battery low power alarm is triggered, the sensor battery needs to be replaced. For this model, the external sensors are sealed units. If a sensor battery runs low, the sensor itself may need to be replaced. Contact customer support for replacement sensors.

2. Cleaning

- Wipe the monitor screen and body with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as these can damage the display or casing.
- Ensure sensors are free from excessive dirt or mud to maintain accurate readings.

Troubleshooting

Problem	Possible Cause	Solution
Monitor does not turn on.	Low battery; no vibration detected.	Charge the monitor via USB. Start the vehicle to activate vibration sensor.
Sensor not displaying data or showing "---".	Sensor not installed correctly; sensor battery low; interference.	Reinstall the sensor, ensuring it's tight. Drive for a few minutes to allow data transmission. If issue persists, sensor may need replacement.
Inaccurate pressure/temperature readings.	Sensor not calibrated; external factors.	Ensure sensors are correctly installed. Compare with a reliable tire gauge. Readings may fluctuate slightly with driving conditions.
Alarm sounds frequently.	Tire pressure/temperature outside safe limits; alarm thresholds set too sensitive.	Check tire pressure with a manual gauge and inflate/deflate as needed. Adjust alarm thresholds if possible (refer to advanced settings, if available).

Specifications

- **Model:** TY22
- **Brand:** XIAHEEO
- **Pressure Range:** 0-81 Psi (0-5.6 Bar)
- **Power Supply:** Solar power, USB charging (5V)
- **Battery Type:** 1 Lithium Ion battery (included)
- **Product Dimensions:** 16 x 13.46 x 5.08 cm
- **Item Weight:** 186 g
- **Material:** Plastic
- **Color:** Black

Warranty and Support

XIAHEEO provides a standard warranty for this product. Please refer to the warranty card included in your package or contact your retailer for specific warranty terms and conditions.
For technical support, troubleshooting assistance, or inquiries regarding replacement parts, please contact XIAHEEO customer service through your purchase platform or the contact information provided in the product packaging. We are committed to providing friendly customer support and assistance.

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