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› VEKOOTO VK7Pro Magnetic Solar Wireless Backup Camera System User Manual

## VEKOOTO VK7Pro

# VEKOOTO VK7Pro Magnetic Solar Wireless Backup Camera System User Manual

## INTRODUCTION

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The VEKOOTO VK7Pro is a magnetic solar wireless backup camera system designed to enhance driving safety and convenience for various vehicles, including trucks, RVs, trailers, and campers. This system features a 7-inch touchscreen monitor and up to four magnetic, solar-powered cameras with HD1080P night vision capabilities. Its wireless design eliminates complex wiring, offering a quick and easy installation process.

## PACKAGE CONTENTS

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- 7" Touchscreen Monitor
- Magnetic Solar Rechargeable Camera(s) (Quantity varies by kit: 1, 2, or 4 cameras)
- Monitor Bracket
- Cigarette Lighter Adapter
- USB-C Charging Cable(s)
- Charger(s)
- 32GB SD Card
- User Manual

*Note: The specific quantity of cameras, charging cables, and chargers depends on the kit purchased (e.g., 1, 2, or 4 camera kit).*

## KEY FEATURES

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- **Quick Installation:** Magnetic mount and plug-and-play design for setup in minutes without wiring or drilling.
- **Stable Wireless Signal:** 2.4GHz Digital Wireless Signal with up to 500ft transmission range in open spaces, featuring an integrated circular antenna for enhanced interference resistance and lower latency.
- **7-inch HD IPS Touchscreen:** 1024\*600 resolution monitor for clear images and easy operation.

- **Loop Recording:** Continuously saves footage, automatically overwriting oldest files, with support for up to 128GB TF cards (32GB included).
- **Automatic Camera Sync:** Cameras power down when the monitor is off and start up when the monitor is on.
- **High-Capacity Battery & Solar Charging:** 15,800mAh rechargeable battery with an integrated high-efficiency solar panel (up to 400mA current) for extended operation (up to 30 hours). Supports fast Type-C charging.
- **IP69 Waterproof & IR Night Vision:** Cameras are engineered for high-level waterproofing and provide clear infrared night vision up to 30 feet in darkness.
- **Wide Viewing Angle:** 150° viewing angle to reduce blind spots.
- **Multi-Camera Support:** Supports connection of up to 4 cameras for comprehensive vehicle coverage.

## SETUP GUIDE

### 1. Monitor Installation

1. Attach the monitor bracket to the 7-inch touchscreen monitor.
2. Mount the monitor securely on your vehicle's dashboard or windshield using the suction cup or adhesive base provided with the bracket. Ensure it does not obstruct your view.
3. Connect the monitor to power using either the Type-C cable or the cigarette lighter adapter.

### 2. Camera Installation (Magnetic Mount)

The VK7Pro camera features powerful magnets for easy attachment to any metal surface on your vehicle. No drilling or wiring is typically required.

1. **For Metal Surfaces:** Simply place the magnetic camera onto a suitable metal surface at the rear or side of your vehicle. Ensure the solar panel faces upwards for optimal charging.
2. **For Aluminum or Fiberglass Vehicles:** If your vehicle has an aluminum or fiberglass body, a metal plate accessory is required for magnetic mounting. Contact VEKOOTO customer support to receive this accessory. Install the metal plate first, then attach the camera to the plate.
3. Adjust the camera angle to achieve the desired viewing perspective.

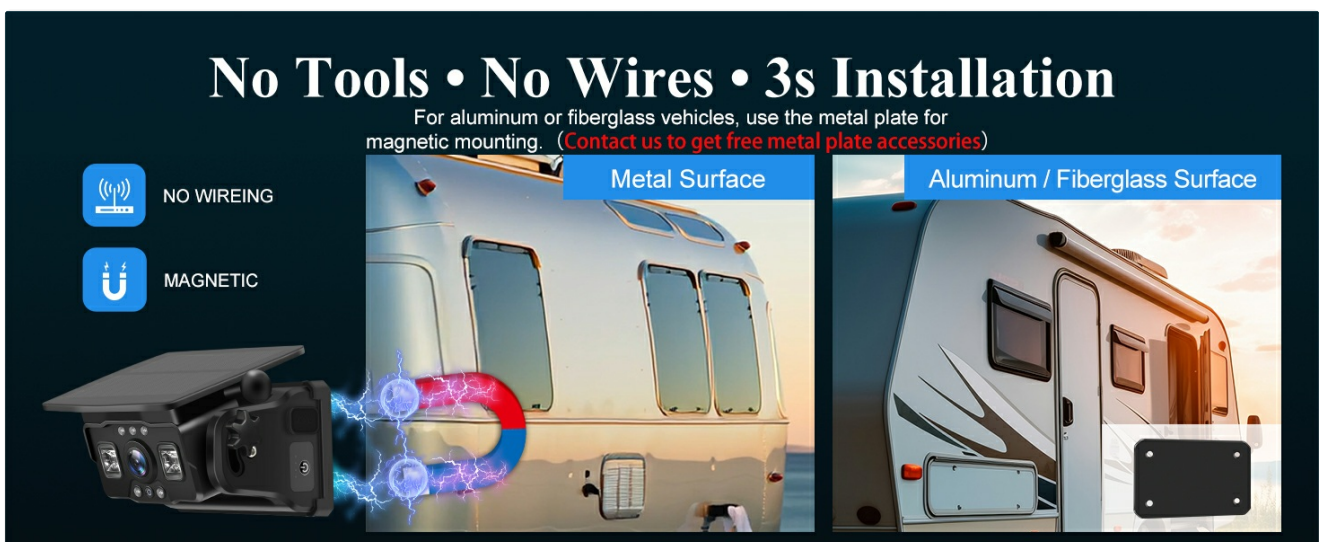


Figure 1: Simplified installation process for the VEKOOTO VK7Pro system. Steps include installing a metal plate (if needed for non-metal surfaces), placing the magnetic camera, and powering on the monitor via cigarette lighter or USB.



Figure 2: Illustration of magnetic camera mounting on both metal and non-metal (aluminum/fiberglass) surfaces, highlighting the need for a metal plate accessory for the latter.

## OPERATING INSTRUCTIONS

### 1. Powering On/Off

- Once the monitor is powered, the connected cameras will automatically sync and power on.
- To turn off the system, simply turn off the monitor. The cameras will automatically power down to conserve battery.

### 2. Monitor Controls (Touchscreen, View Modes, Zoom)

The 7-inch HD IPS touchscreen allows for intuitive control and viewing.

- **Switch Views:** Tap the screen to cycle through different camera views (e.g., single camera, 2-split screen, quad-split screen if multiple cameras are connected).
- **Zoom In/Out:** Use the on-screen controls to zoom in or out on the live feed for detailed viewing.
- **Playback:** Access recorded videos and manage loop recording settings directly from the touchscreen interface.

Video 1: This video demonstrates the VEKOOTO VK7Pro camera system's features, including magnetic installation, integrated antennas, 7-inch touchscreen monitor, multi-camera support, zoom functionality, and infrared night vision in action.



Figure 3: The monitor supports various display modes, including full screen for a single camera, 2-split screen for two cameras, and

quad-split screen for up to four cameras, providing comprehensive views.



Figure 4: The 7-inch touchscreen allows for easy interaction, including switching camera views, zooming, and managing the DVR loop recording feature which includes date and time stamps.

### 3. Night Vision

The cameras are equipped with infrared night vision, providing a clear view in low-light conditions or complete darkness.

- The infrared lights automatically activate when ambient light is insufficient.
- Night vision provides visibility up to 30 feet, ensuring safety during nighttime maneuvers.

**Integrated Antenna • Stronger, Safer, Simpler**

Unlike competitors with detachable antennas, our camera and monitor feature a fully integrated antenna, reducing signal issues and eliminating installation hassle.

Our Product	Others
<ul style="list-style-type: none"><li>✓ Plug &amp; Play</li><li>✓ Stable Signal</li><li>✓ Integrated antenna — no loosening</li></ul>	<ul style="list-style-type: none"><li>✗ Loose Parts</li><li>✗ Easy to Break</li><li>✗ Extra Setup</li></ul>

Figure 5: The infrared night vision feature allows for clear visibility in total darkness, as depicted by the camera's active IR lights and the monitor's grayscale display.

### 4. Image Flip Function

The system supports image flipping to adjust the camera view as needed for different mounting orientations or preferences.

- Access the image flip settings through the monitor's touchscreen menu.
- Options typically include Normal, Mirror, Inverted Front Image, and Inverted Mirror Image.

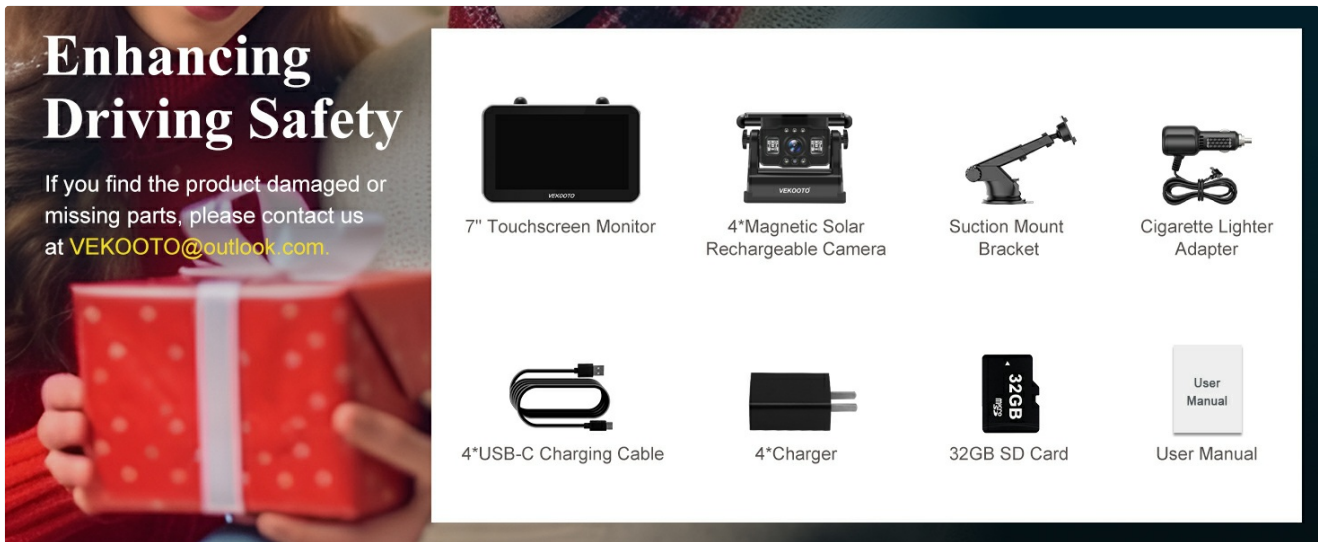


Figure 6: Various image flip options are available to adjust the camera's perspective, including normal, mirror, inverted front, and inverted mirror views.

## CHARGING AND BATTERY MANAGEMENT

### 1. Initial Charging

Before first use, fully charge all cameras using the provided USB-C cables and chargers. A full charge typically takes 6-7 hours.

### 2. Solar Charging

The cameras are equipped with high-efficiency monocrystalline solar panels that provide up to 400mA of current to keep the battery charged during daylight hours. Ensure the solar panel is exposed to direct sunlight for optimal performance.

### 3. USB-C Charging

For faster charging or during periods of low sunlight, use the provided USB-C cables and chargers. The 15,800mAh battery offers up to 30 hours of continuous operation on a full charge.



Figure 7: The camera supports both solar charging via its integrated panel and fast charging via USB-C, ensuring the 15,800mAh battery remains powered for extended use.

## MAINTENANCE

## 1. General Care

- Keep the monitor and cameras clean. Use a soft, dry cloth to wipe away dust and smudges.
- Avoid using harsh chemicals or abrasive cleaners, which can damage the surfaces.
- Ensure the solar panel on the camera is free from dirt or obstructions to maintain charging efficiency.

## 2. Waterproofing

The cameras are IP69 waterproof, designed to withstand extended exposure to heavy rain and harsh weather conditions. However, avoid submerging the cameras in water for prolonged periods.

## TROUBLESHOOTING

- **No Signal/Interference:** Ensure cameras are within the 500ft transmission range. Check for large metal obstructions between the camera and monitor. Repositioning the camera or monitor slightly may improve signal.
- **Camera Not Powering On:** Verify the camera battery is charged. Ensure the monitor is powered on, as cameras sync automatically with the monitor.
- **Poor Night Vision:** Check if the camera lens and infrared lights are clean and unobstructed. Ensure there are no strong light sources directly interfering with the camera's night vision sensors.
- **Monitor Not Responding:** Try restarting the monitor by disconnecting and reconnecting its power source. If issues persist, ensure the power connection is stable.
- **Loop Recording Issues:** Check if the 32GB TF card is properly inserted and not full. If full, the system should automatically overwrite old files. Consider formatting the card or replacing it if errors occur.

For further assistance, please refer to the Customer Support section.

## TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	VEKOOTO
Model	VK7Pro
Screen Size	7 Inches
Product Dimensions (Monitor)	7.4"L x 0.9"W x 5"H
Compatible Devices	Monitor
Installation Type	Surface Mount (Magnetic)
Voltage	5 Volts (DC)
Connector Type	Type-C, Wireless
Battery Capacity (Camera)	15,800mAh
Wireless Transmission Range	Up to 500ft (open spaces)
Waterproof Rating (Camera)	IP69

Night Vision Range	Up to 30 feet
Viewing Angle	150°
Max TF Card Support	128GB (32GB included)

## WARRANTY INFORMATION

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The VEKOOTO VK7Pro Magnetic Solar Wireless Backup Camera System comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

## CUSTOMER SUPPORT

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For any questions, technical support, or to request a free metal plate accessory for aluminum or fiberglass vehicles, please contact VEKOOTO customer service:

- **Email:** [VEKOOTO@outlook.com](mailto:VEKOOTO@outlook.com)

Our support team is dedicated to assisting you with any product-related inquiries or issues.