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> Losuudy Magnetic Solar Wireless Backup Camera System with 5-inch HD Monitor (Model L-XV20) User Manual

## Losuudy L-XV20

# Losuudy Magnetic Solar Wireless Backup Camera System

**MODEL: L-XV20**

User Instruction Manual

## Introduction

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This manual provides detailed instructions for the installation, operation, and maintenance of your Losuudy Magnetic Solar Wireless Backup Camera System. Please read this manual thoroughly before using the product to ensure proper function and safety. This system is designed to enhance visibility for various vehicles, including cars, RVs, trucks, trailers, 5th wheels, skid steers, and horse trailers.

## Product Overview

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The Losuudy L-XV20 system consists of a wireless camera unit with a solar panel and a 5-inch HD monitor. Key features include a strong magnetic base for easy attachment, a built-in rechargeable battery, IP68 waterproofing, IR night vision, and stable digital wireless signal transmission.



**Figure 1:** Overview of the Losudy Magnetic Solar Wireless Backup Camera System, showing the 5-inch HD monitor and the solar-powered wireless camera unit.

### Camera Unit Components:



**Figure 2:** Detailed view of the camera unit, highlighting its features such as the 6-layer lens, fill lights, IR LEDs, light sensor, power indicator, power button, charging port, and magnetic base.

- **6 Layers of Lens:** For clear image capture.
- **2 Fill Lights & 8 IR LEDs:** Enhance visibility in low-light conditions (night vision).
- **Light Sensor:** Automatically adjusts lighting.
- **Power Indicator:** Shows battery status.

- **Power Button:** To turn the camera unit on/off.
- **Charging Port (Type-C 5V DC):** For main battery charging.
- **Magnetic Base:** For secure attachment to ferrous surfaces.
- **Angle Adjusting Mechanism:** Allows for precise camera angle setup.
- **Antenna:** For wireless signal transmission.

## Setup Instructions

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The Losuudy L-XV20 system is designed for quick and easy installation without the need for complex wiring or drilling.

### Step 1: Camera Installation

1. Ensure the camera unit is fully charged before initial use.
2. Attach the camera unit to a suitable ferrous metal surface on your vehicle. The strong magnetic base will secure it firmly.
3. Adjust the camera angle to achieve the desired view. The camera offers a 150° field of view.
4. Press the power button on the camera unit to turn it on.

### Step 2: Monitor Installation

1. Mount the 5-inch HD monitor on your dashboard or windshield using the provided suction cup bracket.
2. Connect the monitor to your vehicle's 12V power outlet (cigarette lighter) using the supplied car charger.
3. Press the power button on the car charger to power on the monitor. The monitor will automatically connect to the camera unit.

# 10,000mAh Large Battery

for 18 Hours Long Trip



Figure 3: Visual guide for the quick installation process, showing the magnetic camera attachment and monitor setup in a vehicle.

## Operating Instructions

### Auto Sleep Mode

The camera unit features an intelligent auto-sleep mode to conserve battery life. When the monitor is powered off, the camera automatically enters sleep mode. When the monitor is turned back on, the camera will automatically wake up and resume operation. This eliminates the need for manual power cycling of the camera.



Figure 4: Explanation of the auto sleep mode, showing the camera entering sleep when the monitor is off and waking when the monitor is on.

### Dual Split Screen & Parking Lines

The 5-inch HD monitor supports both full-screen and dual-split screen displays. This allows for the addition of a second compatible camera (sold separately) to expand your field of view and reduce blind spots. When reversing, you can activate parking lines on the monitor to assist with precise parking maneuvers.

# Wireless Digital Signal Stability



Pickup



Van



Camper



RV



Trailer



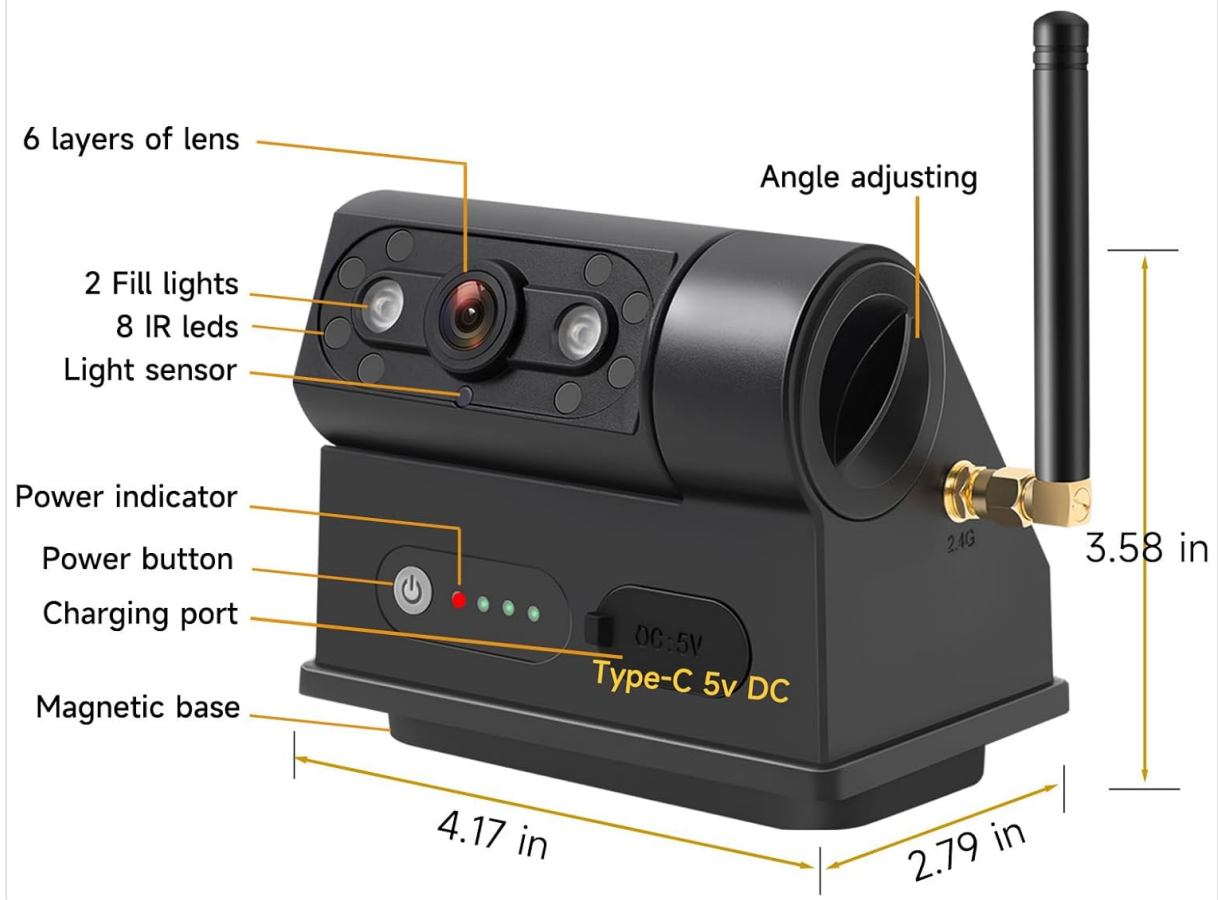
Truck

Figure 5: Illustration of the monitor's display modes, showing a single camera view and a dual-split screen view with two cameras (CAM1 and CAM2).

## Wireless Signal Stability

The system utilizes an advanced 2.4GHz digital wireless signal for stable transmission and image synchronization without delay. It offers an effective transmission distance of up to 40 feet, making it suitable for various vehicle types including pickups, vans, campers, RVs, trailers, and trucks.

# Camera Specification



**Figure 6:** Visual representation of the 2.4GHz wireless digital signal stability, showing the camera and monitor communicating over a 40ft effective range, suitable for various vehicle types.

## Maintenance

### Battery Charging

The camera unit is equipped with a built-in 10,000 mAh rechargeable battery. It supports both solar-assisted charging and Type-C fast charging.

- **Solar Charging:** The integrated solar panel provides auxiliary charging (maximum 0.8W). While helpful for maintaining charge, it is recommended to use the Type-C charger as the primary charging method for optimal battery life, especially during extended use or in low sunlight conditions.
- **Type-C Charging:** For full and fast charging, connect the camera unit to a 5V DC power source using the provided Type-C cable. A full charge typically takes approximately 6 hours and provides up to 18+ hours of operation.

# Auto Sleep Mode



**Figure 7:** Illustration of the 10,000mAh battery capacity and the two charging methods: solar charging (auxiliary) and Type-C charging (main).

## Waterproof and Durability

The camera unit boasts an IP68 waterproof rating, ensuring protection against dust and water immersion. This allows for reliable operation in various weather conditions, including rain, snow, and dust storms. The system is also designed to be resistant to extreme temperatures, operating effectively from -4°F to 179°F.



## Dual Split Screen

### Full Screen



### Dual Screen



Note: supports add a second same camera for dual split screen.

Figure 8: Visual representation of the camera's IP68 waterproof rating and resistance to various weather conditions, including heat, cold, and dust.

## Troubleshooting

If you encounter issues with your Losuudy backup camera system, please refer to the following common troubleshooting steps:

- **No Image on Monitor:**

- Ensure both the camera and monitor are powered on.
- Check the power connection to the monitor.
- Verify the camera battery is charged.
- Ensure the camera and monitor are within the 40ft effective transmission range and there are no significant obstructions.

- **Image Lag or Interruption:**

- Reduce the distance between the camera and monitor.
- Minimize potential sources of wireless interference (e.g., other 2.4GHz devices).
- Ensure the camera's antenna is positioned for optimal signal reception.

- **Camera Not Turning On:**

- Charge the camera battery using the Type-C cable.
- Press and hold the power button on the camera unit for a few seconds.

- **Monitor Not Turning On:**

- Check the 12V power connection and ensure the car charger's power button is pressed.
- Verify the vehicle's 12V outlet is functioning.

For further assistance, please contact customer support as detailed in the Warranty and Support section.

## Specifications

Feature	Detail
Model Number	L-XV20
Screen Size	5 Inches
Display Technology	LED
Connectivity	Wireless Digital Signal (2.4GHz)
Effective Transmission Distance	40 feet
Camera Battery Capacity	10,000 mAh
Battery Life (approx.)	18+ hours
Charging Time (Type-C)	Approx. 6 hours
Solar Charging Power	Max 0.8W (Auxiliary)
Waterproof Rating	IP68
Optical Sensor Technology	CMOS
Real Angle of View	150 Degrees
Installation Type	Suction Cup Monitor & Magnetic Fixed Camera
Voltage	12 Volts (DC)
Product Dimensions	11.1 x 8 x 3.5 inches
Item Weight	2.68 pounds
Compatible Devices	Cars, RVs, Trucks, Trailers, Vans, Skid steers, Horse Trailer, Trailer Hitch Camera

## Warranty and Support

Losuudy provides a **24-month manufacturer's warranty** for this product. If you experience any issues, require assistance, or find any parts missing, please contact Losuudy customer service. Our support team is available to ensure your complete satisfaction.

For customer support, please refer to the contact information provided with your product packaging or visit

the official Losuudy website.