

LS VISION LS-MS2

LS VISION 4K 180-Degree Ultra-Wide Angle 4G Solar-Powered Outdoor Security Camera

Model: LS-MS2
Brand: LS VISION

1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your LS VISION 4K 180-Degree Ultra-Wide Angle 4G Solar-Powered Outdoor Security Camera. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. PRODUCT OVERVIEW

2.1 Key Features

- 4K/8MP Resolution for clear video capture.
- 180-Degree Ultra-Wide Angle Dual Lens for comprehensive coverage without distortion.
- Integrated 4G Module for connectivity without Wi-Fi, ideal for remote locations.
- Solar-Powered with 6W solar panel and built-in 18000 mAh batteries for continuous operation. Supports integrated and separate solar panel installation.
- Two-Way Audio for real-time communication.
- Cloud Storage and local TF card storage (up to 128GB, TF card not included).
- Remote Viewing and Playback via Niview app (Android/iOS).
- PIR + Human Detection with automatic human tracking, wake-up video recording, and push notifications.
- Multiple Recording Modes: 24-hour continuous recording, 24-hour + trigger recording, and three trigger recording modes.
- Dual Light Source Design: Full-color night vision up to 20 meters and infrared night vision up to 40 meters.
- IP66 Waterproof Rating for outdoor durability.

2.2 Product Diagram



Figure 2.1: Product components and dimensions. Key parts include the solar panel, antennas, dual lens, microphone, spotlights, PIR sensor, speaker, TF card slot, and SIM card slot.

3. PACKAGE CONTENTS

Please check the package contents upon opening to ensure all items are present and undamaged:

- 1 x LS VISION 4K 180-Degree Ultra-Wide Angle 4G Solar-Powered Outdoor Security Camera
- 1 x Solar Panel (6W)
- 1 x Set of Mounting Brackets
- 1 x 4G Antenna
- 1 x Set of Screws and Wall Plugs
- 1 x 2-meter Extension Cable for Solar Panel

4. SETUP GUIDE

4.1 Initial Charging

Although the camera is solar-powered, it is recommended to fully charge the built-in batteries before the first use. Connect the camera to a 5V/2A USB power adapter (not included) using a standard USB cable for initial charging. The charging indicator will show the status.

4.2 SIM Card & TF Card Installation

Locate the SIM card slot and TF card slot on the camera (refer to Figure 2.1). Ensure the camera is powered off before inserting or removing cards.

1. Open the protective cover of the card slots.
2. Insert a standard 4G SIM card into the SIM card slot with the gold contacts facing down. Ensure it clicks into place.
3. Insert a TF (microSD) card (up to 128GB, not included) into the TF card slot with the gold contacts facing down. Ensure it clicks into place.
4. Close the protective cover firmly to maintain the IP66 waterproof rating.

4.3 Mounting the Camera

The camera is designed for wall mounting and outdoor use. Consider the following for optimal placement:

- Choose a location with ample direct sunlight for the solar panel.
- Ensure the camera has a clear view of the area you wish to monitor.
- Mount the camera at a height that provides good coverage and deters tampering.



Figure 4.1: The LS VISION camera shown with its solar panel and mounting bracket, ready for outdoor installation.



Figure 4.2: The camera operates on a 4G network, eliminating the need for a Wi-Fi router, making it suitable for locations without existing Wi-Fi infrastructure.

The solar panel can be installed integrated with the camera or separately using the 2-meter extension cable for optimal sun exposure.

4.4 App Installation & Connection

To access and control your camera, download the Niview app from your smartphone's app store (available for Android and iOS).

1. Search for "Niview" in the App Store or Google Play Store and install it.
2. Register a new account or log in if you already have one.
3. Follow the in-app instructions to add your camera. This typically involves scanning a QR code on the camera or manually entering its ID.
4. Once connected, you can view live footage, access recordings, and configure settings.

5. OPERATING INSTRUCTIONS

5.1 Live View & Playback

Access the Niview app on your smartphone or tablet to view live video streams from your camera anytime, anywhere. The app also allows you to review recorded footage.

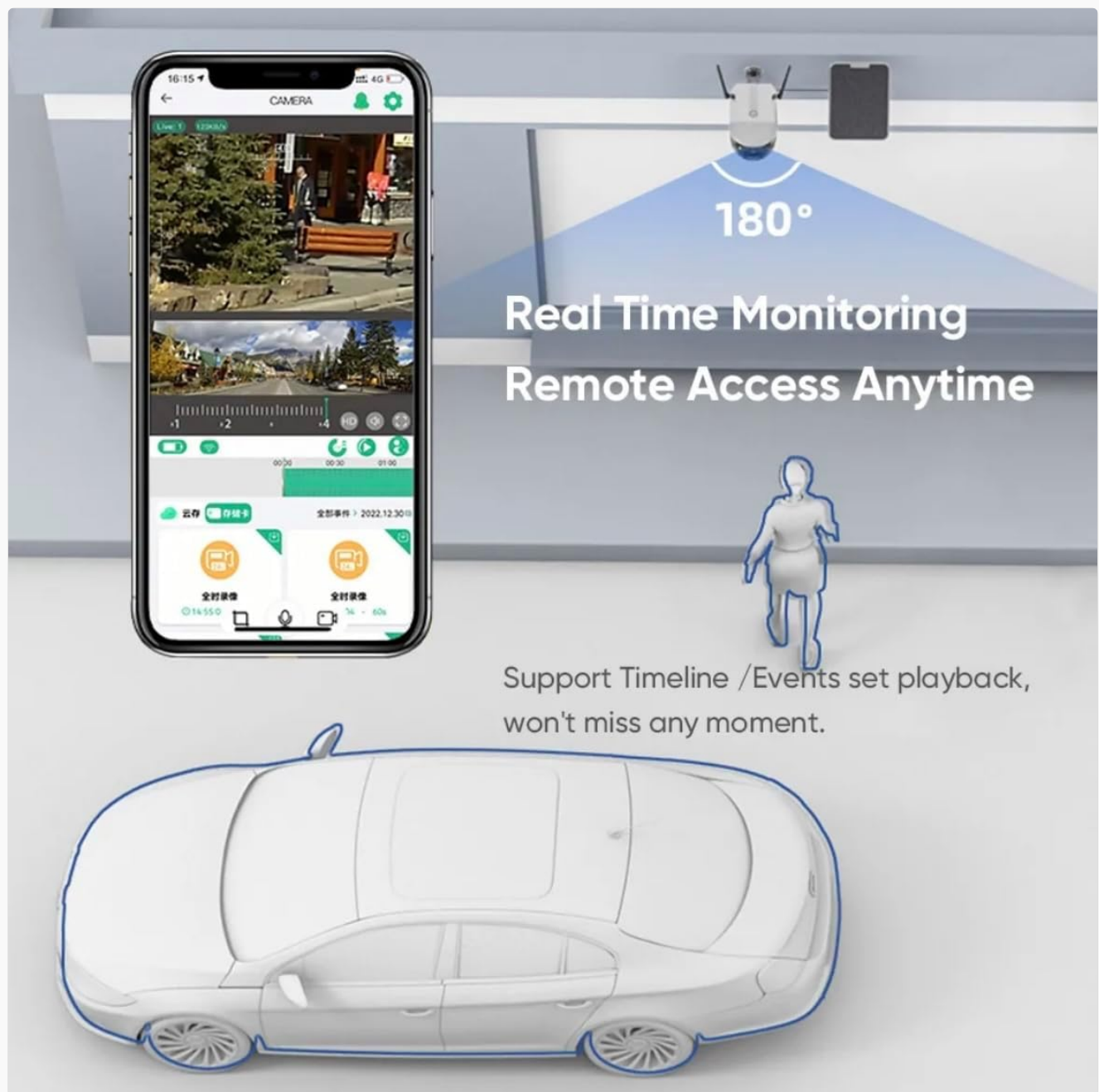


Figure 5.1: The Niview app interface demonstrating real-time monitoring and timeline playback, ensuring no moment is missed.

5.2 Motion Detection & Alerts

The camera features advanced PIR and human detection capabilities. When motion or a human figure is detected, the camera will:

- Automatically begin recording a wake-up video.
- Send instant push notifications to your connected smartphone.
- Initiate automatic human tracking to follow the detected subject.



Figure 5.2: The camera's human tracking feature automatically follows detected individuals, ensuring continuous monitoring of their movement.

5.3 Night Vision

The camera is equipped with a dual light source design for enhanced night vision:

- **Full-Color Night Vision:** Provides clear, colored images up to 20 meters in low-light conditions when spotlights are activated.
- **Infrared (IR) Night Vision:** Offers black and white vision up to 40 meters using infrared LEDs.

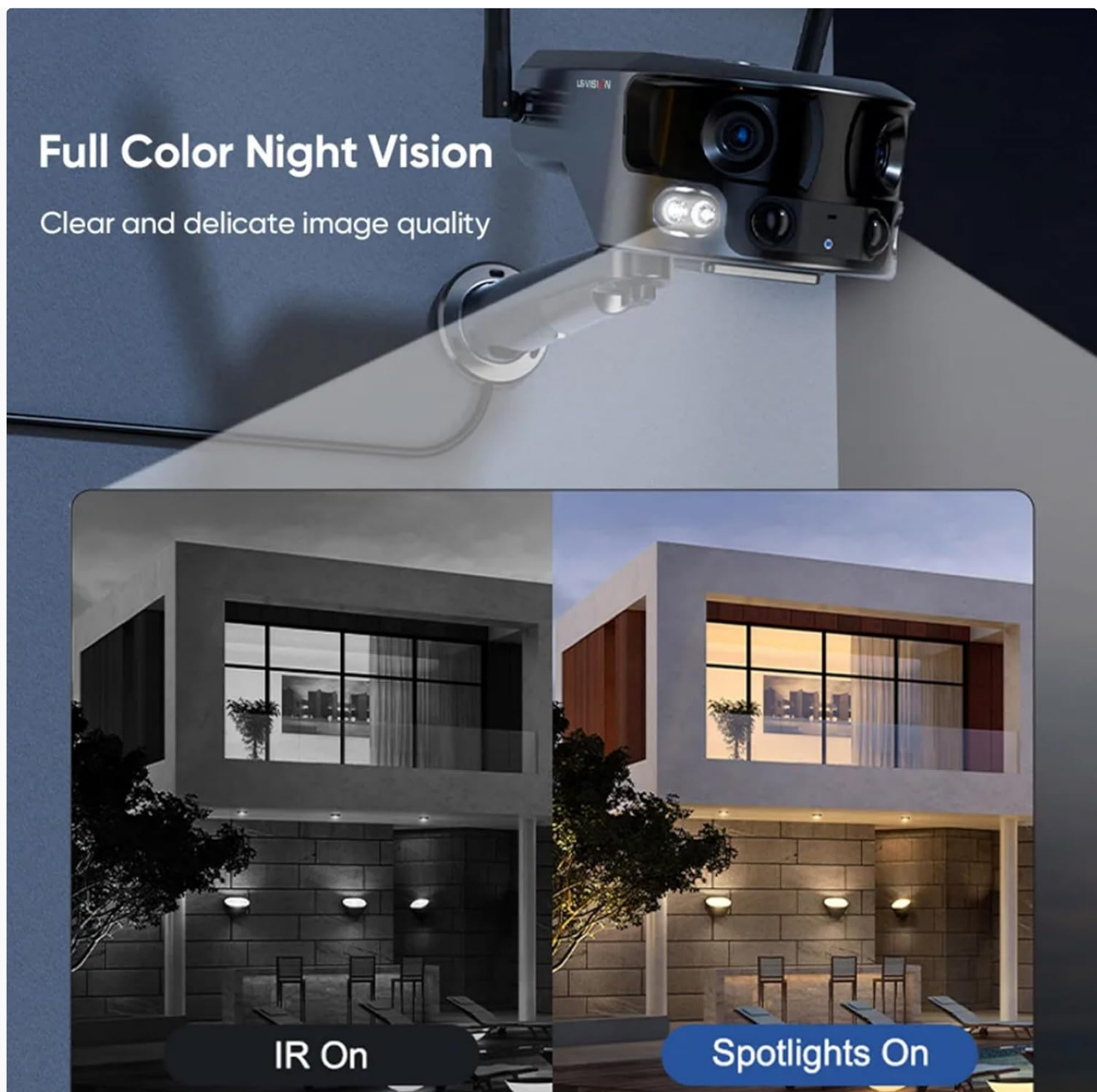


Figure 5.3: Comparison illustrating the difference between standard IR night vision and full-color night vision when the camera's spotlights are active.

5.4 Two-Way Audio

Utilize the built-in microphone and speaker for two-way audio communication through the Niview app. This allows you to listen in on the camera's surroundings and speak through the camera.

5.5 Recording Modes

The camera supports various recording modes to suit your needs:

- **24-Hour Continuous Recording:** Records continuously throughout the day.
- **Trigger Recording:** Records only when motion or human detection is triggered. This mode has three sub-options for customization.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera:

- **Cleaning:** Periodically wipe the camera lens and solar panel with a soft, damp cloth to remove dust and debris. Do not use harsh chemicals.
- **Battery Care:** Ensure the solar panel is exposed to sufficient sunlight to keep the built-in batteries charged. In prolonged periods of low sunlight, consider manually charging the camera.
- **Firmware Updates:** Check the Niview app regularly for firmware updates. Keeping the firmware updated ensures the latest features and security patches.
- **Environmental Protection:** While IP66 rated, avoid exposing the camera to extreme weather conditions beyond its specified operating range if possible.



Figure 6.1: The camera's IP66 industrial-grade waterproof design ensures reliable operation even in adverse outdoor weather conditions like rain.

7. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Camera offline	No 4G signal; Low battery; SIM card issue.	Check 4G signal strength; Recharge battery; Reinsert SIM card or try a different one.
Poor image quality	Dirty lens; Insufficient light; Network bandwidth.	Clean the lens; Ensure adequate lighting or enable night vision; Check 4G network speed.
Motion detection not working	Detection sensitivity too low; Incorrect settings; Obstructions.	Adjust sensitivity in app; Verify detection zone settings; Clear any obstructions.
Battery not charging	Insufficient sunlight; Dirty solar panel; Faulty connection.	Relocate solar panel to direct sunlight; Clean solar panel; Check cable connections.

If the problem persists, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Name	LS-MS2
Video Capture Resolution	4K
Viewing Angle	180 Degrees (Ultra-Wide)
Connectivity Technology	4G Cellular Network (also supports Wi-Fi)
Power Source	Solar Powered (6W Solar Panel)
Battery Capacity	18000 mAh (Built-in)
Night Vision Range (Color)	Up to 20 meters
Night Vision Range (IR)	Up to 40 meters
Storage	Cloud Storage, TF Card (Max 128GB, not included)
Waterproof Rating	IP66
Material	Acrylonitrile Butadiene Styrene (ABS) and Metal
Installation Type	Wall Mount
Compatible Devices	Tablet, Smartphone (Android/iOS)
Product Dimensions	18 x 18 x 15 cm
Item Weight	1.25 Kilograms

9. WARRANTY INFORMATION

This product comes with a standard manufacturer's warranty. For specific warranty terms, duration, and claim procedures, please refer to the warranty card included in your product packaging or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or troubleshooting beyond this manual, please contact LS VISION customer support. Contact details can typically be found on the product packaging, the manufacturer's official website, or through your point of purchase.

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