

User Manual

Wireless Camera for 2.4GHz Wireless Backup System



Please read this manual thoroughly before operating the device, and keep it for future reference.

V1.1

**Note: Camera Designed for Use with the 2.4GHz
Wireless Backup System Monitor**



This add-on wireless camera is designed exclusively for the INS101 2.4GHz Wireless Backup System Monitor and must be paired with it to function. Please ensure you already own the INS101 system before use.

Video Tutorials

Scan QR code for Setup & FAQ



Note: If the QR code cannot be scanned, visit inseecam.net and go to the **Support** page for videos.

Thank you for your purchase! Any problem
please send us messages!

Email: support@inseecam.net

WhatsApp: +86 13318775092

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1. Precautions


1.1 Storage and Keeping

- (1) Do not expose the monitor to excessive heat or coldness, Storage temperature is $-30\sim+80^{\circ}\text{C}$; Operating temperature is $-20\sim+70^{\circ}\text{C}$; Humidity is Rh90%.
- (2) Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar places.
- (3) Never use this device in the environment with excessive moisture, dust or smoke.
- (4) Avoid dropping or striking.
- (5) Never use this device in enclosed spaces, areas with excessive vibration or subject to severe impacts.
- (6) Never puncture, scratch or use abrasive cleaning materials on this device.
- (7) Do not place cables where they may be pinched or stepped on.
- (8)The camera is designed to be waterproof; the waterproof rating is IP66

1.2 Maintenance

- (1) Remove all the cable connections from the monitor before cleaning the device.
- (2) Use a mild household detergent and clean the unit with a slightly damp, soft cloth.
- (3)Never use strong solvents such as thinner or benzene, as they might damage the finish of the device.

	Caution	
	Risk of electric shock Do not open	
Caution: to reduce the risk of electric shock, Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.		

 This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in

the literature accompanying the appliance.



This symbol is intended to alert the user not to waste electrical and electronic equipment.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranted and necessitate expensive repairs.

1.3 FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: 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. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

NOTE 2: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.




1.4 IC warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

2. Package List

 <p>Magnetic Wireless Camera</p>	 <p>Camera Power Cable</p>
 <p>User Manual</p>	



Special Notice

Accessory supply may be different for
different application.

3. Features and Specifications

3.1 Magnetic Battery-Powered Camera:





Show Battery Status	
●●●●	≈ 100%
●●●●	≈ 75%
●●●●	≈ 50%
●●●●	≈ 25%
●●●●	≈ 0%
●●●●	Standby

Power / Reset button:

Press and hold for at least 2 seconds to turn it on.

Press and hold for at least 2 seconds to turn it off.

Press it for four times to reset the camera.

In sleep mode, pressing the power button once will wake up the camera. Double pressing the power button will put the camera back to sleep.

Infrared indicator light:

Four infrared indicator lights will be on in the darkness.

Battery indicator light:

When cameras fully charged, four lights are all on.

In camera's sleep state, only the two lights in the middle are on.

Camera Features:

- (1) Smart Power Saving Mode: The camera enters power saving mode when you don't use it for 30 seconds. If you don't use it for a long time, it is recommended to power off the camera to avoid draining the battery.
- (2) Rechargeable Battery.
- (3) Magnetic Mount.
- (4) Portable and Easy Installation.
- (5) Battery Standby Time: 365 days (Expose to sunlight for at least 2 hours per day).

Camera Specifications:

Battery Capacity	3.7V/3000mAh
Charging Voltage	DC 5~12V
Charging Time	4.5H
Discharging Time	7H(Daytime)
Charging Temperature	0 °C ~ +40 °C
Discharging	-20 °C ~ +60 °C
Storage Temperature	-20 °C ~ +60 °C
Waterproof Rating	IP66
Image Device	1/2.9" CMOS
Effective Pixels	1920 (H) × 1080 (V)

Transmission Distance	Max :150 m (No obstacles)
Night Vision Distance	17ft / 5m
Viewing Angle	150°
Smart IR-Cut	Support
Battery Standby Time	365 days (Expose to sunlight for at least 2 hours per day)
Maximum Power of	0.8W
Maximum Charging	81mAh
Cell Efficiency	≤24.3%



Special Notice

Warning: Use only a DC 5-12V charger. Others may damage the battery.

4. Installation

4.1 Installing the Magnetic Wireless Camera

1. Turn on the power button located on the back of the wireless camera.

Note: Press and hold the power button for at least 2 seconds until the front indicator light turns on, signaling that the camera is successfully powered on. Additionally, it is recommended to charge the camera

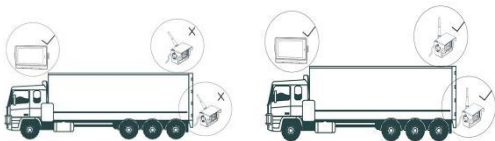
for 4.5 hours before first use.

2. Find a suitable mounting location for the camera.

Since this is a magnetic camera, simply find a metal surface on the exterior of the vehicle, and it can be easily attached. Regarding the camera installation, it is recommended to mount it at the top rear of the car, rather than underneath, as wireless signals can easily be obstructed or experience interference.

4.2 Equipment installation recommendations

1. Generally, the antenna should be perpendicular to the ground. Ensure that there are no obstacles around the antenna (Installation diagram) is similar to the figure below.



Note:

- ① Mount the camera at the top rear of the car, not underneath, to avoid signal interference.
- ② The antenna should be perpendicular to the ground !

4.3 Optional Accessories (Sold Separately)



Metal Mounting Plate

Works on Non-Metallic Surfaces:

If you are using this product on a non-metallic surface (such as plastic, fiberglass, or wood), we recommend using our metal mounting plate for better magnetic attachment.

You can search "**Metal Mounting Plate for Magnetic Wireless Backup Camera**" in our Amazon store to purchase.



AI Magnetic Solar Wireless Backup Camera

For the best viewing and monitoring experience, we recommend purchasing the full system, which includes the 5" display monitor and provides complete functionality. you can search "**AI Magnetic Solar Wireless Backup Camera**" in our Amazon store to o find the compatible model.



4K 3 Channel Mirror Dash Cam

For a more advanced in-car rear-view setup, we recommend our full 4K 3-Channel Mirror Dash Cam system with front, rear, and inside cameras. you can search "**4K 3 Channel Mirror Dash Cam**" in our Amazon store to o find the compatible model.

4.4 Solution of poor wireless signal

- (1) Ensure the camera is at least 1 meter above the ground. Both the camera and monitor antennas should be vertical and securely tightened.
- (2) If a metal shield is between the monitor and camera, use an extension antenna to bypass the shield and improve signal transmission.
- (3) Install the patch antennas on the same side of the vehicle for better signal transmission.

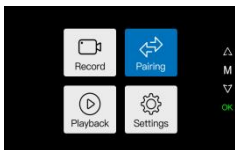
(4) Regarding the camera installation, it is recommended to mount it at the top rear of the car, rather than underneath, as wireless signals can easily be obstructed or experience interference.

Note: Please pair the monitor with the camera before installing the wireless system on the vehicle. Please refer to the "5.2.2 Pairing" instructions for the method of pairing the camera with the monitor.

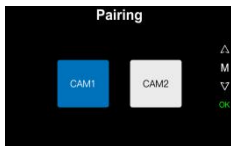
Notice: If an unrecoverable error occurs, please try restarting the device.

5. Operation Instructions

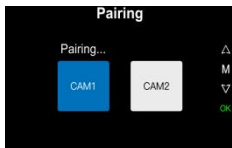
5.1 Pairing



(1) After selecting the icon, press **OK** to open the pairing page as follows.

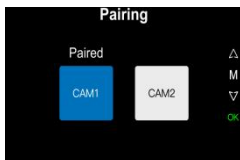


(2) Press the **OK** in the selected icon to pair the video channel.



(3) When the monitor shows "Pairing...", it means the LCD is in pairing mode. The camera enters pairing mode 8 seconds after powering on. If the

camera is off, hold the power button for 2 seconds until the status light turns on. If the camera is in sleep mode, press the power button briefly to wake it up; it will enter pairing mode after 8 seconds.



(4) When paired with the camera, paired will be Monitored to indicate that the pairing is successful, and if not, there is no Monitor.

(5) Press the Menu button on the selected channel to clear pairing info.

(6) Waking Up and Switching Cams: After pairing two cams, wave your hand left or right to wake them up. Once awake, waving again will switch channels.

(7) Cancel Pairing: Long press the Menu button to cancel pairing.

6. Troubleshooting

1. Screen Goes Black While Checking Video:

Confirm the camera is powered on. If the battery is depleted, recharge it. For pairing issues, refer to section 5.2.2 of the manual. If problems persist, contact us.

2. Camera Not Connecting:

Ensure that the camera is powered on and has sufficient battery. For pairing instructions, please refer to section 5.2.2 of this manual. If the problem persists, please contact us.

3. Waking Up the Camera from Sleep:

Press the power button on the camera briefly. If paired with the LCD, it will automatically wake and display the image.

Wireless Connection Range of the 2.4G Magnetic Rear View Camera:

The camera has a wireless range of up to 492 feet (150 meters). Range may vary based on vehicle type and environment.

4. Low-Power Function and Benefits:

The low-power function enhances energy efficiency by putting the camera in sleep mode when the LCD is off, saving power and reducing charging frequency.

5. 1080P Advertised but 720P Video Exported:

The camera has a 1080p sensor, but wireless

transmission may limit resolution to 720p for stable signal quality. The camera maintains 1080p capability.

6. Camera Not Sticking to the Car:

The magnetic base attaches to iron, cobalt, or nickel surfaces. If the desired location lacks such a surface, consider adding a metal plate to facilitate mounting.

7. Why Can't the Camera Stay Charged?

(1) First, check the cable and DC connector. Make sure the DC connector is working properly and the charging cable is not loose or poorly connected.

(2) Ensure that the adapter's output power is 5V/2A or 12V/1.5A, and the adapter can operate normally within a voltage range of 4V to 14V.

(3) For cameras with a solar panel, sufficient sunlight is required for normal charging. Cloudy weather, shading, or an improper installation angle may result in low solar panel voltage, making it unable to charge the camera properly.

(4) The solar panel can only charge the camera when it is powered on. If the camera's battery has completely drained and caused it to shut down, it cannot be directly charged and powered on by the solar panel alone. In this case, you must use a USB cable to charge it for 4 hours first to give it some initial charge. After charging, manually power on the camera, then the solar panel should

work normally.

(5) The camera has temperature limits for charging (0°C to 55°C) and operation (-20°C to 66°C). Charging will automatically stop if temperatures exceed these limits.

(6) The camera comes with a built-in 3000mAh rechargeable battery, which can typically support up to 7 hours of continuous use during daytime.

If the camera operates continuously for long periods, the power consumption may exceed the charging speed, causing the battery level to keep dropping.

To improve battery life, we recommend using the camera's power-saving mode and setting the auto sleep time to 1–2 minutes, which will help reduce power consumption.

If there are any problems during the use of the product, please contact us in time. Thank you!

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