

English

# Swift Hitch™

## User's Manual

### Portable Wireless Camera System with Infrared Night Vision

Model: SH02



Please read this manual carefully and thoroughly before any attempt to install and operate this product and retain it for your future reference.

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## EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



# INTRODUCTION

Thank you for your interest and support in our product and purchasing this wireless camera kit. This product works at ISM-2.4GHz frequency band, which could be legally used worldwide without permission. We feel confident that you will be pleased with the quality and features of this product. The camera features one CMOS image sensor and a transmitting module to capture the image and transmit them wirelessly. The receiver features a receiving module to receive and display the camera image on a color (LCD) - liquid crystal display.

## Notice

**Notice:** This product may cause interferences with other wireless equipment that operates at 2.4GHz ISM band. Please turn off one of the equipments to eliminate the interference.

**Product Assurance:** This camera will emit electromagnetic wave, just like other wireless products. But its transmitting power is less than other wireless products such as mobile phones. The 2.4GHz wireless camera meets wireless frequency security standards and recommended indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

## Warranty

This product has a **one year limited warranty** with an affective date that begins the date of purchase. Refer to the troubleshooting guide at the end of this manual for help. Contact the phone number provided in that section for any additional support. Please retain proof of purchase receipt for verification. Any attempted disassembly of the product will void the warranty. **Do not return defective product to the retailer.**

## **Approval Information**

All our products meet the requirements of approval FCC , and are granted the FCC certification. They are authorized to bear FCC mark.

### **FCC**

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 the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

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

- (1) This device may not cause harmful interference, and
  - (2) this device must accept any interference received, including interference that may cause undesired operation
- Changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

## Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose;
2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment. So this product should be placed at least 1 foot away from any heart pacemaker. Radio waves might potentially influence heart pacemaker and lead to respiratory disturbance;
3. DO NOT use this product for any illegal activities. We shall not be responsible for any consequences of illegal acts committed by the user.

## Maintenance

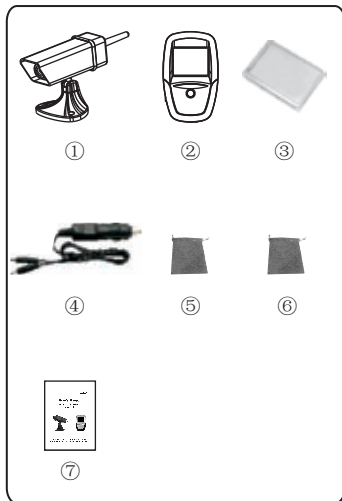
1. Do not shake or strike the product;
2. Keep it dry and dustless and avoid exposing it to direct sunlight;
3. Do not place product near any magnetic objects;
4. Avoid putting the product in places where the constantly changed temperature or humidity occurs;
5. Keep product away from heat sources such as electric heater;
6. Do not use the camera near aggressive chemicals;
7. Do not use this camera near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool and the like;
8. Do not use the camera in the places which are enclosed by metal. The surrounding metal like lifter, cabin, may shield the electromagnetic wave, and result in failure of signal reception;
9. Please obey the local government's environment protection policy;
10. Please turn off the power when left unused;
11. Do not disassemble or repair the camera or receiver; doing so might cause damages to the product. And also **VOID THE WARRANTY**.

# PRODUCT

## Package Contents

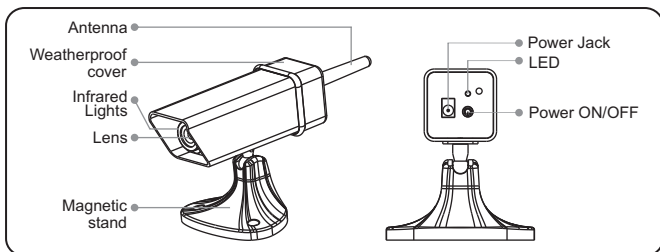
This package comes with the following items. Please check whether they are all included in the packaging box, if one or some is missing, contact the retailer for replacement.

- ① 2.4GHz Wireless Camera × 1
- ② 2.4GHz Wireless Receiver × 1
- ③ Lithium Battery for Receiver × 1
- ④ "Y" shaped Charging cable for camera & receiver × 1
- ⑤ Carrying Bag for camera × 1
- ⑥ Carrying Bag for Receiver × 1
- ⑦ User's Manual × 1

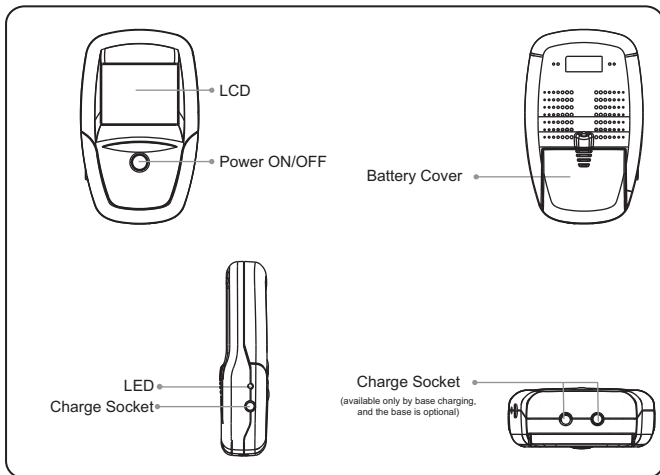


# Feature Locations

## 1. Camera



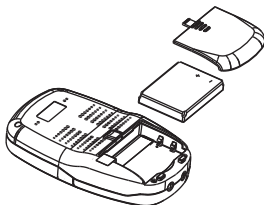
## 2. Receiver



# FIRST TIME USAGE

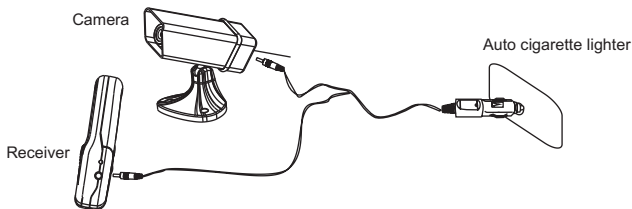
## Charging the Camera and Receiver

1. Load a Li-battery to the battery compartment with its polarities matched.



**Note:** Make the contacts contacting first and then put the other end of the battery in the compartment.

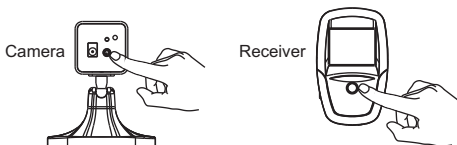
2. Connect the camera/receiver with auto cigarette lighter by the "Y" shaped charging cable. Your camera and receiver are being charged. A full charge will take about 2 hours for camera and 2.5 hours for receiver.



**Note:** For camera, you need to remove the cover before charging.



3. The camera/receiver can work during charging. Press the Power ON /OFF button to power on the camera/receiver, then you can use it.





**Notes for camera:**

- If the battery is exhausted, please recharge it with the charging cable.
- Cover the back with weatherproof cover in rainy day if necessary.

CAMERA LED INDICATOR	STATUS
Red on	Charging when Power off
Off	Power off (disconnect with cigarette lighter)/Finish Charging
Green on	Power on
Yellow on	Charging when Power on

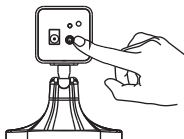
**Notes for receiver:**

- A full charge will take about 2.5 hours, which can power the receiver for about 180 minutes continuously.
- You are recommended to have the battery fully charged before its first installation to optimize its life.
- Do not burn or disassemble the Li-battery. 
- Do not short-circuit the battery as it may cause fire or electric shock. 

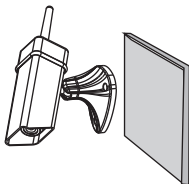
RECEIVER LED INDICATOR	STATUS
Red on	Charging when Power off
Off	Power off (disconnect with cigarette lighter)/ Finish Charging
Green on	Power on
Yellow on	Charging when Power on
Flash green	Low battery

## Using the Camera

1. Before using, make sure the camera is full charged. Press the Power ON/OFF button to power on your camera.



2. Mount the Magnetic Camera on your tailgate. Then adjust it to a suitable angle from your receiver.



3. View yourself backing up on the display. Hitch your ride.



## Night Vision

The built-in Infra-red lights in camera provide night vision for low light conditions. The Infra-red lights will be automatically activated at night. The picture will turn to Black & White (monochrome) in Night Vision status.

Built-in IR lights for about  
15ft Night Vision Range



# SPECIFICATIONS




	ITEMS	Value
CAMERA	Imaging Sensor	CMOS
	CMOS Total Pixels	628 × 582(PAL); 510 × 492(NTSC)
	View Angle	55°
	Minimum Illumination	5Lux/F1.2 & 0Lux (IR ON)
	Transmission Frequency	ISM 2,400MHz~2,483MHz
	Transmission Power	10mW/CE
	Modulation Type	FM
	Bandwidth	18MHz
	Power Supply	+12V <sub>DC</sub>
	Battery Type	Lithium Battery
	Consumption Current	180mA & 230mA (IR ON)
	Charge Time	2h
	Working Time	4h(IR OFF) 2h(IR ON)
	Unobstructed Effective Range	100m
	Night Vision Range	5m
RECEIVER	Dimensions(W × D × H) (Excluding bracket)	28 × 90 × 28(mm)
	Weight	110g
	LCD	2.5" TFT
	LCD Resolution	960 × 240
	Receiving Frequency	ISM 2,400MHz~2,483MHz
	Intermediate Frequency	480MHz
	Demodulation Type	FM
	Receiving Sensitivity	≤ -80dBm
	Power Supply	+12V <sub>DC</sub>
	Consumption Current	240mA
	Dimensions(W × D × H)	80 × 38 × 130(mm)
	Weight	250g
	Operating Temperature	-10°C~+50°C/+14°F~+122°F
	Storage Temperature	-30°C~+65°C/-22°F~+149°F
	Operating Humidity	85%RH

\* Actual transmission range may vary according to weather, location, interference or building construction.

\* All the specifications are subject to minor change without prior notice.

# TROUBLESHOOTING

When you experience the operation problems, please check and try the following yourself before claiming that it is the defective product or consulting the experienced technician.

Abnormal Phenomena	Possible Reasons/Solutions
 No image	Check whether the camera/receiver is powered on.
 Blur image	Adjust the lens of camera.
 Ghost image	<ol style="list-style-type: none"><li>1. Interfered with other devices;</li><li>2. Check the distance &amp; blocks.</li></ol>

**Questions?? call XXX-XXX-XXXX**