AEE®

English

User's Manual

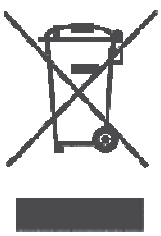
2.4GHz Color Wireless Camera Kit

MODEL: A101

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

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.



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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 output AV signals.

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 lesser 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.

Approval Information

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

FCC

This product meets the requirements specified in Part 15 of FCC Regulation. Operation rests with the following two conditions:

(1) The equipment should not cause any harmful interference;
(2) The equipment must receive and process any interference, including any possible interference caused by operation mistakes.

After testing the product, we confirm that it complies with the provision for class C digital equipment in the 15th part in FCC regulation; and the receiver complies with the limitations for class B digital equipment in Part 15 of FCC regulation. The product generates, applies and emits radio waves. It might cause harmful interferences to wireless communication if not be installed and used following the description of the manual. The product may cause interference in residential area, and the customer should take remedies to eliminate the interference at their own costs. If the product causes any harmful interference to wireless equipment or disturbs the receiving of TV signals (it can be identified by turning on and off the product), you can solve the trouble by following methods:

(1) Readjust the product or put it in another place;
(2) Extend the distance between the equipment interfered and the product; and
(3) Refer to dealers or experienced radio electrician for help.

CE

This product complies with standards including **L**ow **V**oltage **D**evice Directive 73/23/EEC; **EMC** Directive 89/336/EEC and **R&TTE** Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear **CE** mark.

Warranty

AEE Technology warrants that this product will be free from defects in materials and workmanship for period of time specified. This limited warranty shall commence from the date of purchase. AEE Technology product's warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, AEE Technology will repair or replace the product. This warranty shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use. Should you have problems, please consult the local dealer.

Copyright

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AEE Technology assumes no responsibility or liability for any errors or inaccuracies that may appear in this booklet. All other product names, trademarks and registered trademarks in this document are the properties of their respective holders.

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 feet 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. AEE Technology shall not be responsible for any consequences of illegal acts committed by the user.

Maintenance

1. Ensure the sufficient ventilation space is available;
2. Do not shake or strike the product;
3. Keep it dry and dustless and avoid exposing it to direct sunlight;
4. Do not place product near any magnetic objects;
5. Avoid putting the product in places where the constantly changed temperature or humidity occurs;
6. Keep product away from heat sources such as electric heater;
7. Do not use the camera near aggressive chemicals;
8. 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;
9. 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;
10. Please obey the local government's environment protection policy;
11. Please turn off the power when left unused;
12. Do not disassemble or repair the camera or receiver; doing so might cause damages to the product.

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 Wireless camera ×1

② Wireless receiver ×1

③ Mounting plate for camera ×1

④ Holder for receiver ×1

⑤ Antenna for receiver ×1

⑥ DC 7.5V power adapter for camera ×1

⑦ DC 7.5V power adapter for receiver ×1

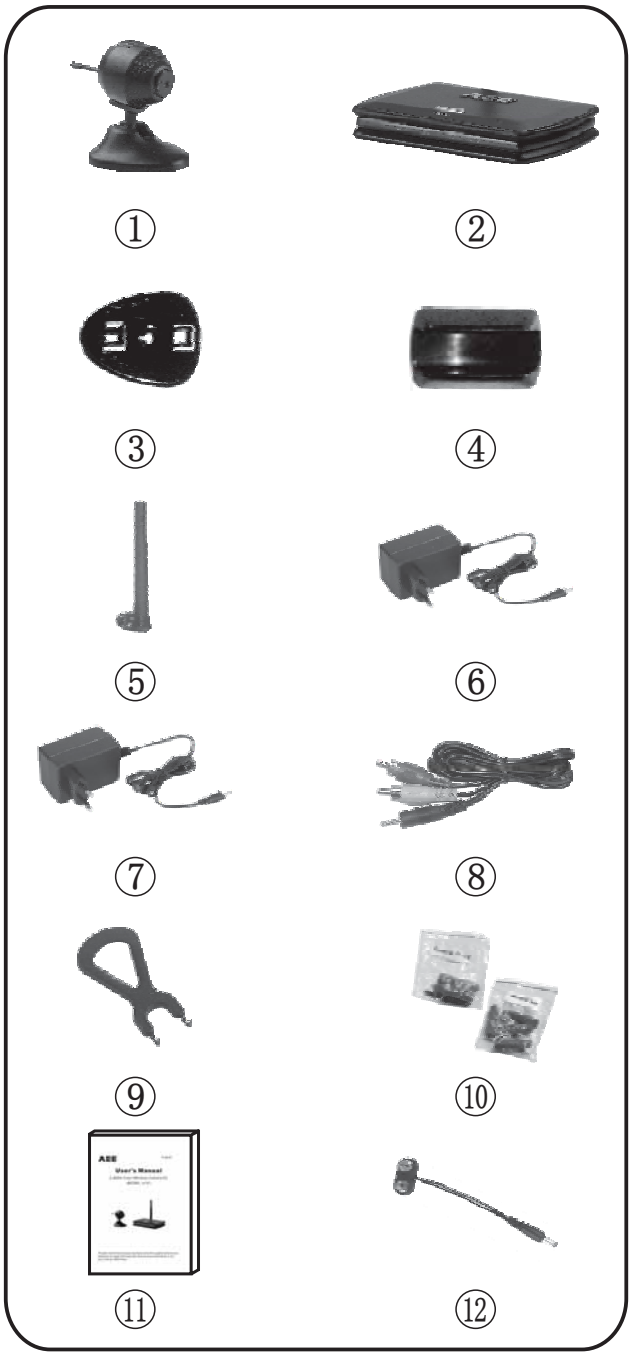
⑧ AV cable ×1

⑨ Lens adjuster ×1

⑩ Mounting hardware ×1

⑪ User's manual ×1

⑫ Battery clip ×1



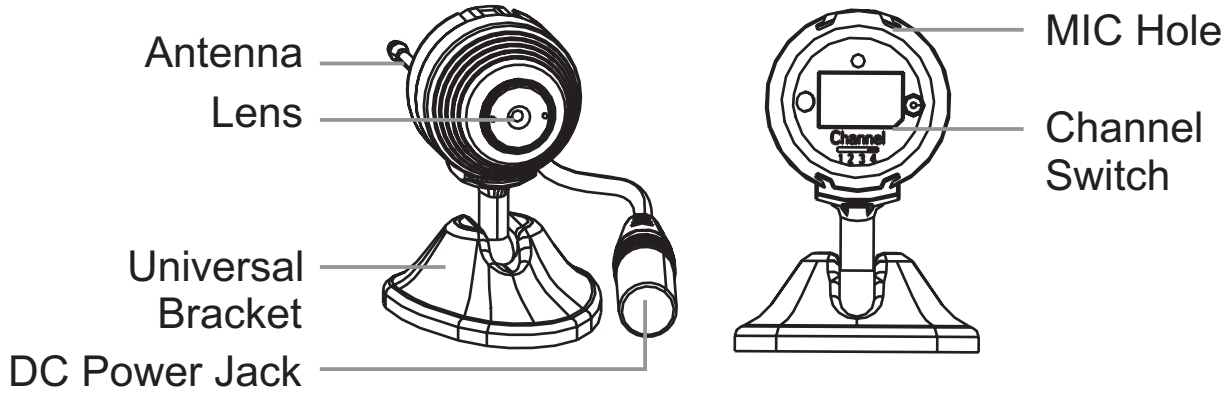
Note:

1. This product can be either black or silver.

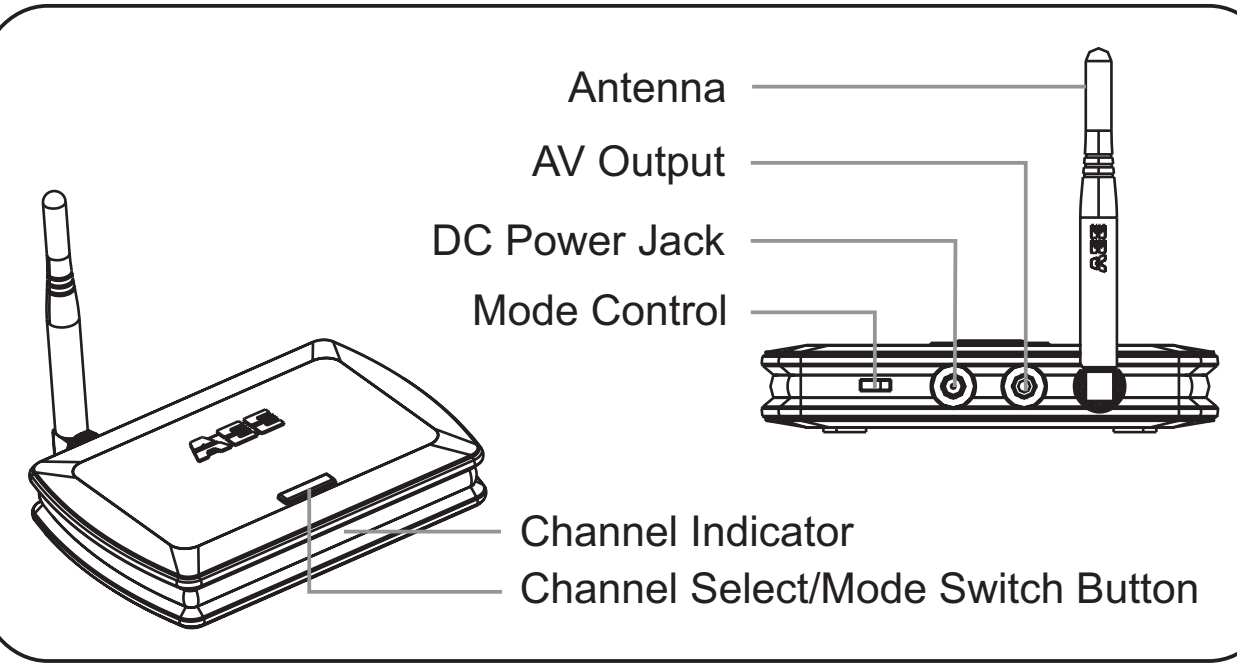
2. The pictures may vary from the actual objects.

Feature Locations

1. Camera



2. Receiver



Adapter

This product always conforms to the authenticated AC adapter. The adapter should be marked one of the following:

UL Mark
American power supply authentication

SAA Mark
Australia power supply authentication

CE Mark
European Union power supply authentication

PSE Mark
Japan power supply authentication

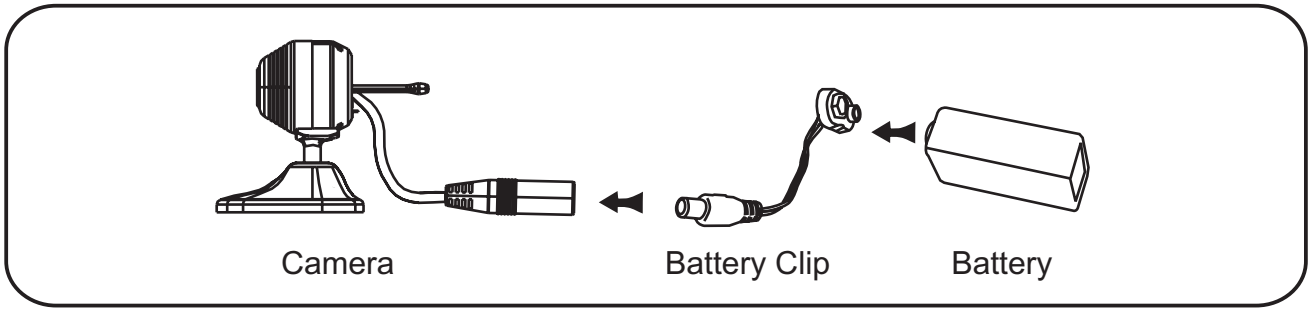
GS Mark
German power supply authentication

CCC Mark
China power supply authentication

Note:
When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

Battery Clip

With the supplied battery clip, the camera could be powered by battery of the same voltage for temporary use.

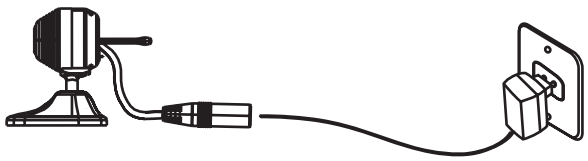


INSTALLATION & USAGE

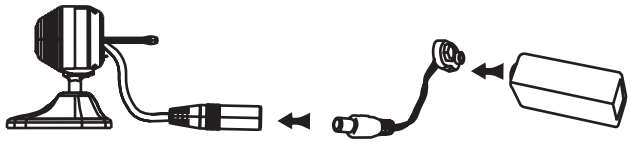
Installation

1. Connect the power jack of adapter (DC 7.5V 300mA) or battery with battery clip to camera.

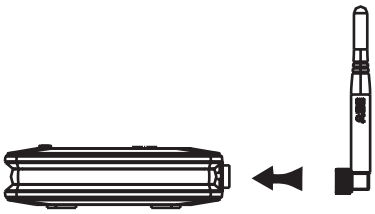
   a. Connect with adapter



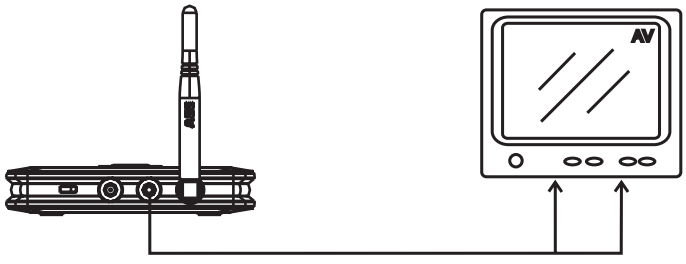
   b. Connect with battery clip



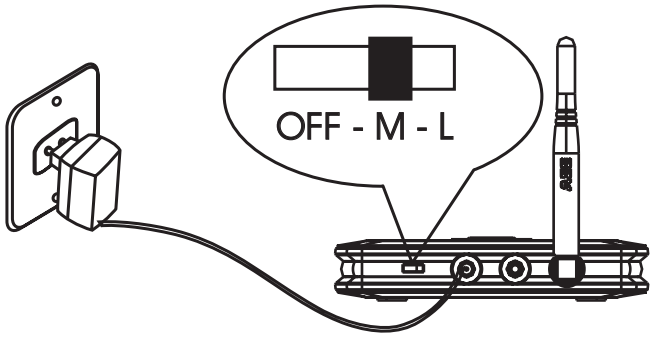
2. Connect the antenna to the receiver.



3. Connect the receiver to the monitor/TV with AV cable. (Red socket for audio; yellow socket for video). Turn on the monitor/TV and select AV mode.

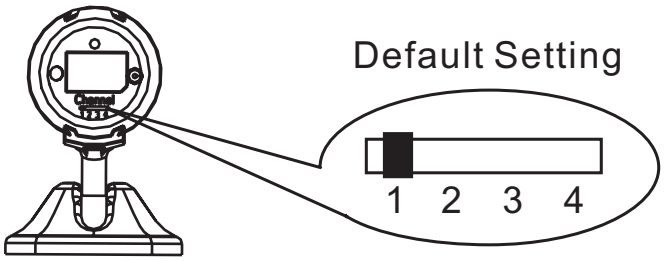


4. Connect the power jack of adapter (DC 7.5V 300mA) to receiver. Slide **Mode Control** switch to **M** position and the channel indicator lights up green.

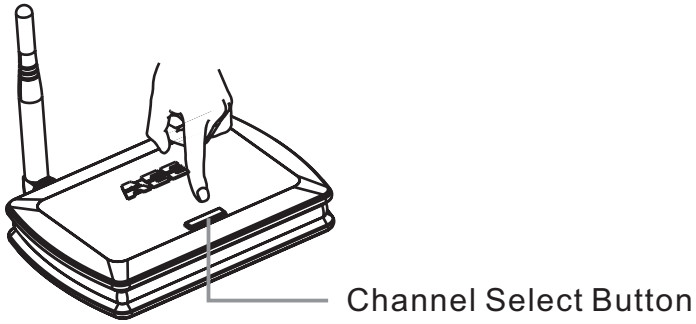


** The receiver provides **Power Off** (**OFF**) mode, **Manual** mode (**M**) and **Channel Scan** mode (**L**). Please refer to **Receiver Mode Setup** section for more details.*

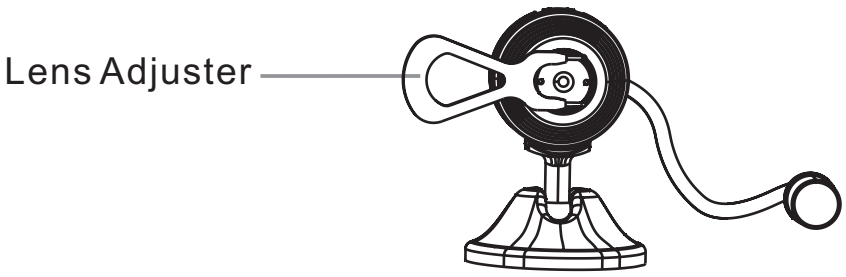
5. Set the camera to one desired channel.



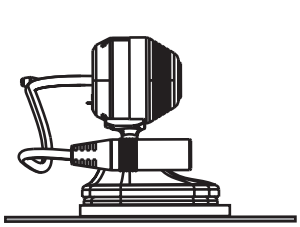
6. Press the channel select button on the receiver until the channel indicator matches to the channel on the corresponding camera. And the monitor/TV will display pictures.



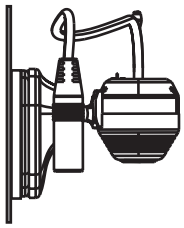
7. If the picture is blur. You could adjust the lens focus with lens adjuster to make the picture clear.



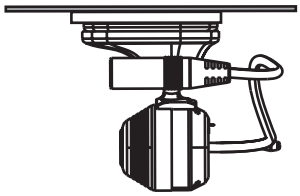
8. Mount the camera to a desired location.



Desktop

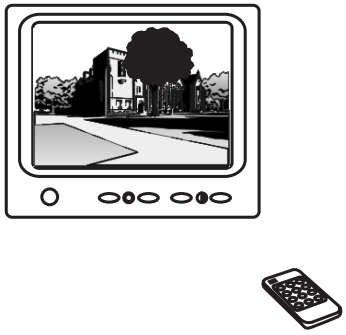


Wall Mount



Ceiling Mount

9. Adjust the brightness, contrast and color setting of the monitor/TV to get the best display effect.



Fix the Camera

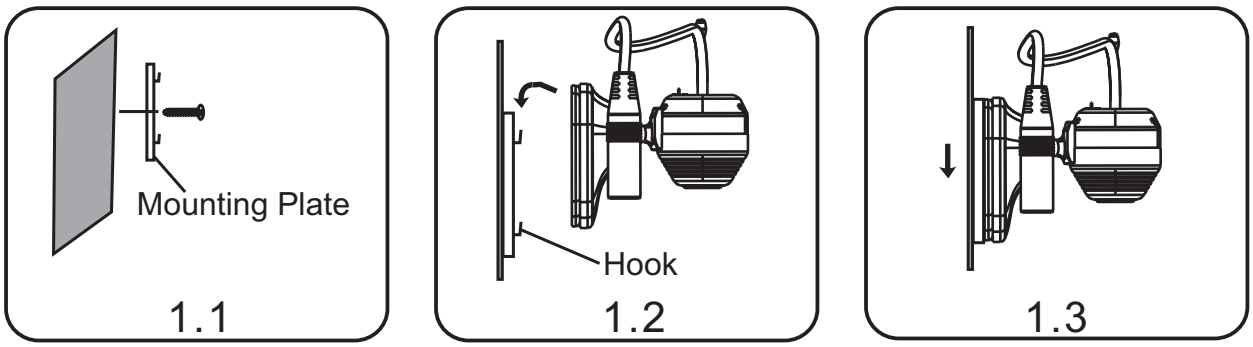
Please follow the steps below if you want to fix the camera to wall or ceiling.

1. Fix to Wall

1.1 Secure the mounting plate to wall with screw;

1.2 Hang the camera on the hooks of mounting plate;

1.3 Push downwards the camera firmly.



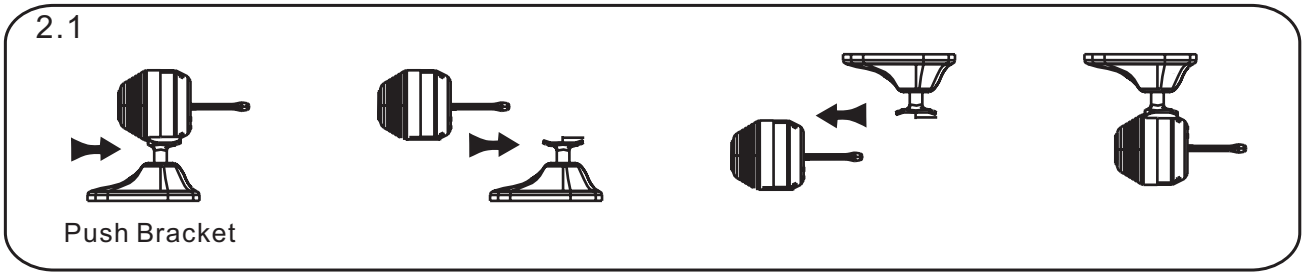
2. Fix to Ceiling

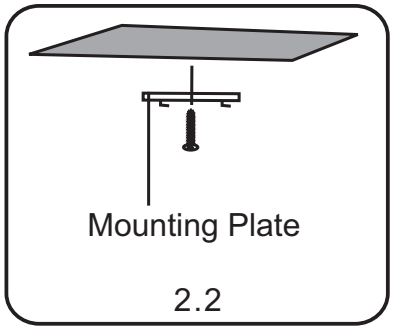
2.1 Detach the universal bracket from the camera and then install it to the camera top for avoiding reverse picture;

2.2 Secure the mounting plate to ceiling with screw;

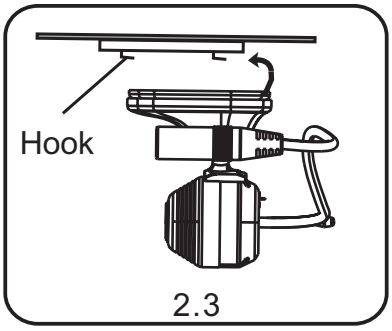
2.3 Hang the camera on the hooks of mounting plate;

2.4 Push left the camera firmly.

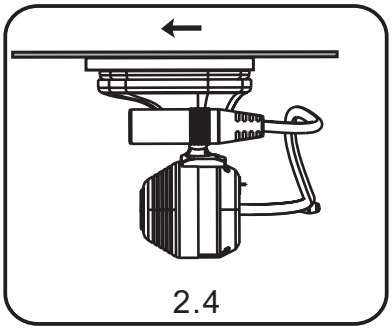




2.2



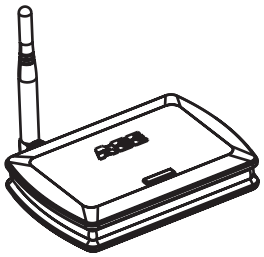
2.3



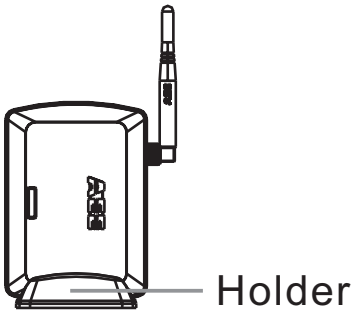
2.4

Locate the Receiver

The receiver can be placed horizontally or vertically. When it is placed vertically, the supplied holder is required.



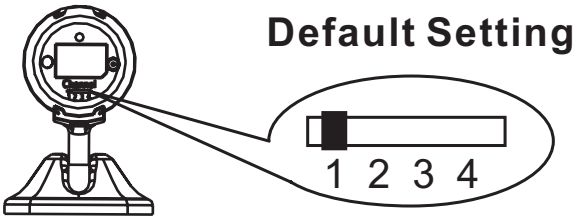
Horizontal



Vertical

Camera Channel Setup

This camera has 4 selectable channels to avoid possible interference from other nearby wireless devices.



Channel Frequency

CH1=2,414MHz;
CH2=2,432MHz;
CH3=2,450MHz;
CH4=2,468MHz

Receiver Mode Setup

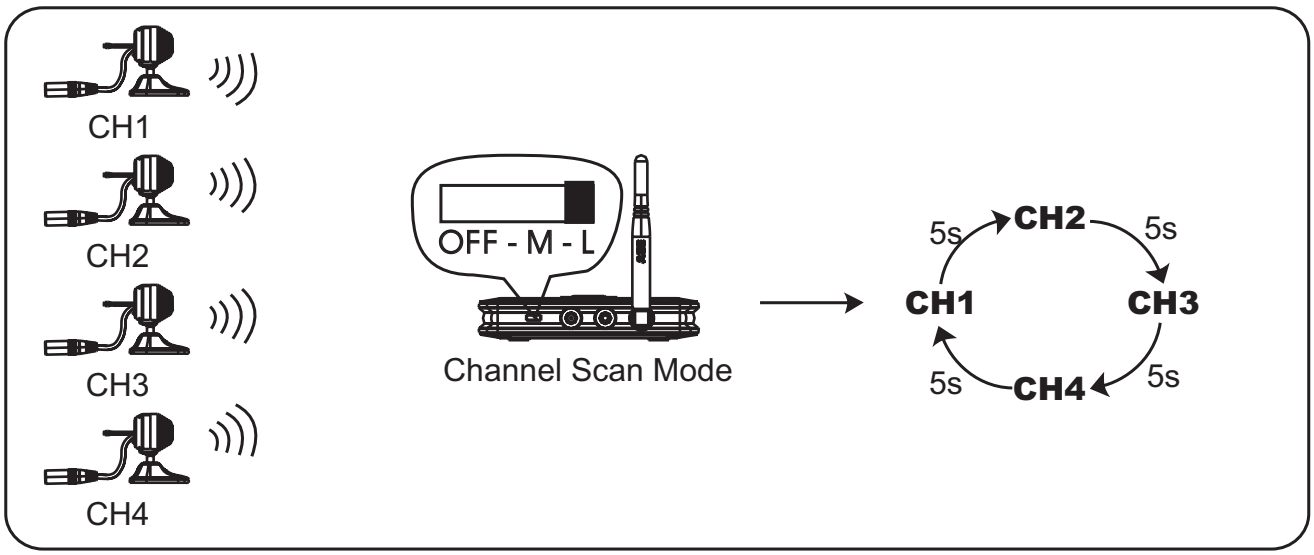
The receiver can support up to 4 cameras working at the same time. It provides **Power Off** mode (**OFF**), **Manual** mode (**M**) and **Channel Scan** mode (**L**).

1. **Power Off** mode: Slide **Mode Control** switch to **OFF** to power the receiver off;

2. **Manual** mode: Slide **Mode Control** switch to **M** to enter **Manual** mode. In manual mode, the receiver channel won't change until you press the channel select/mode switch button;

3. **Channel Scan** mode: Slide **Mode Control** switch to **L** or press and hold the channel select button more than 5s in **Manual** mode to enter channel scan mode. In channel scan mode, all the channels will display one by one looping in turn per 5s.

Note: *When entering channel scan mode through manual mode, you could exit by pressing channel select button; while entering through* ***L*** *selection, you could exit only by sliding the* ***Mode Control*** *switch to* ***M*** *or* ***OFF****.*



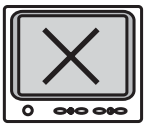
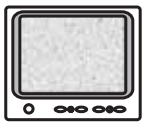
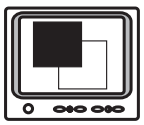
SPECIFICATIONS

Items		Value
Transmission Frequency		ISM 2,400MHz~ 2,483MHz
Antenna Type		Omni
Transmission Distance		100m (Without Block)
Operating Temperature		-10°C~+50°C /+14°F~+122°F
Storage Temperature		-20°C~+60°C /-4°F~+140°F
Storage Humidity		≤85% RH
Camera	Imaging Sensor	1/3-inch CMOS
	CMOS Total Pixels	628×582 (PAL)/ 510×492 (NTSC)
	S/N Ratio	40dB (AGC OFF)
	Horizontal Resolution	380 TV Lines
	Minimum Illumination	5 Lux/F1.2
	Transmission Power	10mW (CE)/2mW (FCC)
	Power Supply	DC 7.5V 300mA
	Consumption Current	80 mA (Max.)
	Dimensions (WxDxH)	28mmx30mmx28mm (Main Body)
	Weight	Approx.22g (Main Body)
Receiver	Receiving Sensitivity	-85dBm
	Power Supply	DC 7.5V 300mA
	Consumption Current	240mA (Max.)
	Video Output Level	$1V_{p-p}$@75Ω
	Audio Output Level	$1V_{p-p}$@10kΩ
	Dimensions (WxDxH)	100mmx70mmx18mm (Main Body)
	Weight	Approx. 99g (Main Body)

** 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	No sound	Check whether the camera/receiver is connected to power supply and powered on.
 Snowflakes on image	Noisy	1. Check if the channel of receiver is the same as that of camera; 2. Check the distance & blocks.
Blur image	Normal sound	Adjust the lens of camera.
Ghost image	Normal sound	1. Interfered with other devices; 2. Check the distance & blocks.
 No color	Normal sound	Mismatching the TV system of PAL or NTSC.
Normal image	Noisy	Interfered with other devices nearby; Remove or turn off such devices.

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