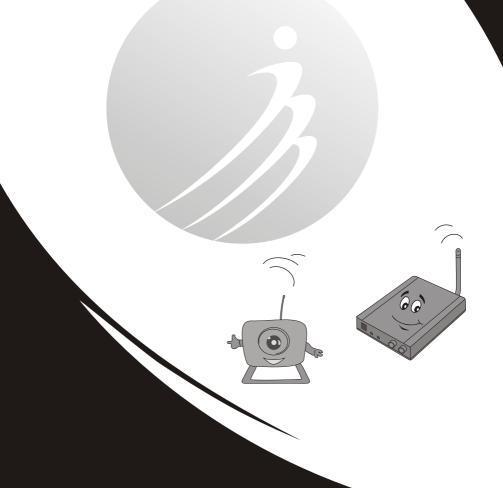
Improve the Quality of Your Life

# Wireless Home DVR Camera Kit User Manual





#### Statement

- 1. Please read the manual in detail before using the product. The manual will present lots of significant information and notes of using the product. Please keep it well for future convenience. We hope we have satisfied your requirements, and hope it can serve you effectively and for a long time.
- 2.Under any circumstance, no matter civil infringement, contract or other reasons, we should not be responsible for any accidents, indirect or special damages caused by the manual or other information.
- 3. The guidance and description in the manual are precise for 2.4 GHz series products at the moment when it is printed. **And we will not deliver any notes for possible changes of products and corresponding manuals.**



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#### **FOREWORD**

**CONGRATULATIONS** on buying our wireless home DVR camera series. The series of products are suitable for the custody of children and elders, monitoring of residence, office, store, factory and so on. It meets FCC, CE Authentication standards, and can offer you a safe, long-lasting, reliable and high-performance service.



Our 2.4GHz wireless camera series work at ISM band. It may cause interference if working together with other wireless equipments operating at the same band. Please turn off the said equipments to eliminate the interference.



## PRODUCT ASSURANCE

Our 2.4GHz wireless camera series will emit electromagnetic wave, just like other wireless products. But the output power of our products is less than other wireless products such as mobile phones. The 2.4GHz wireless camera series meet wireless frequency security standards and indexes while working. The 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 you.



# **OPERATING RESTRICTIONS**

- **DO NOT** put the product too close to medical equipments.
  - 1.Radio waves might potentially cause breakdown of medical electrical equipments and thus cause incidents.
  - 2.Place the product at least 22cm from the heart pacemaker Radio wave potentially influences heart pacemaker and thus leads to respiratory disturbance.
- DO NOT use the product to monitor equipments or activities that are relevant to people's life.
  - 1. Monitoring of equipments or activities concerned directly to People's life.
  - 2. Monitoring related to people's security, antiques or rare articles.

For it is not designed and manufactured for these purposes.

**DO NOT** use the product to carry out any illegal activities (such as sneak preview, etc.)

1



#### **LIABILITY LIMIT**

- We will not be responsible for any sudden occurrences caused by earthquake, thunderbolt, fire, or any third party behaviours that exceed the duties and capabilities; including customer's intentional or unintentional mistakes, misuses and uses under improper conditions.
- We will not be responsible for any occasional loss (loss of commercial profit and business interruption), which are caused by incapability of using the product.
- We will not be responsible for any loss or damage due to the nonperformance of the descriptions in the manual.
- We will not be responsible for any loss or damage caused by using any third party's product.



#### **SECURITY REGARDS**

#### IMPORTANT INFORMATION

The user manual provides important information for customers to use the product properly, and avoid possible hurts or damages. And this information can also decrease the hurt or damage to the lowest level.

Before you read the text, please make sure you have completely understood the following information and symbols. Please refer to the manual while using the product.

#### SYMBOL DESCRIPTION



Means that if not operated to the manual, it might cause death or serious damages



Means that if not avoided timely, slight wounding or property loss might occur



Messages you need to pay attention to



Messages you should know



Means that you should not do



#### **ILLUSTRATION**

#### DO NOT put the plastic package bags in reach of children or babies.

• It might cause asphyxia if children or babies put the bags into their mouths.









#### DO NOT plug the AC adapter into the outlet in improper situations.

- Plucking or plugging AC adapter by wet hand might cause electric shock.
- Plugging AC adapter unsteadily might cause fire or electric shock.







# DO NOT cover the AC adapter when it is connected to power socket, place the adapter near heaters, or put it on the floor which is equipped with a heater.

• The above mentioned operation might cause fire or incidents.









#### DO NOT use it aboard, please abide by the airway's provision.

• It might influence communication aboard and the flying apparatus if departing from the airway's regulation. This will result in accident, possible death and severe physical hurt.











# DO NOT put the camera in wet places where water might splash or where rainwater and mist might erode (Except weather-proof series).

• It might cause fire, shock, short circuit, etc.





# DO NOT disassemble or repair the camera, receiver or other relevant peripheral equipments by yourselves.

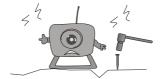
• Improper disassembly might cause damages to the product or the peripheral equipment.



#### DO NOT put the camera in quaky places.

• The camera may be unstable or out of operation if installed improperly. Such installation may also cause breakdown.





#### DO NOT use the receiver on the surface of thermolabile material.

 Please embed thermal insulating material when using on the surface of the thermolabile material.







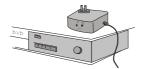


#### DO NOT place or use the AC adapter on temperature sensitive materials.

• The above practice might cause the plastic distortion, fading or sticking on the surface.







#### DO NOT touch, shake or hold the antenna.

• Touching, shaking or holding the antenna might influence the receiving of electromagnetic wave, and thereby influence the receiving effect.





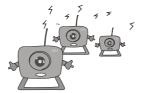


# DO NOT use several cameras with neighbouring frequency working too close at the same time.

• The electromagnetic wave signal of the neighbouring frequency might cause slight interferences and so influence the receiving effect.







#### DO NOT let several cameras with same frequency work at the same time.

• The overlap of electromagnetic wave signals at the same frequency might cause severe interferences and so result in inability to receive signals.









# Please readjust the button of brightness on TV or monitor till get the optimum effect.

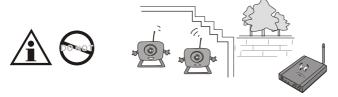
• There are slight differences of brightness among cameras, you can adjust it by the brightness button.





# DO NOT use the camera in complex environment. The obstruction of stumbling block will affect the electromagnetic wave and influence the receiving range.

• Wall, tree and other stumbling block might absorb, reflect the electromagnetic wave, and influence the receiving range.

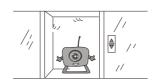


#### DO NOT use the camera in the places which are covered with metal.

• The around metal, such as elevator and cabin, might shield the electromagnetic wave, and result in inability to receive signals.









#### **ABOUT PRODUCT**

## STRUCTURE

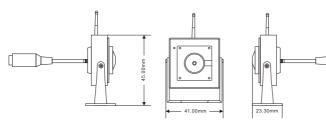
#### HIGH-DEFINITION CMOS CAMERA

#### **INDOOR**



1001

- Alloyed Shell
- Pinhole Lens
- 1/4" CMOS
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 1.5 Lux









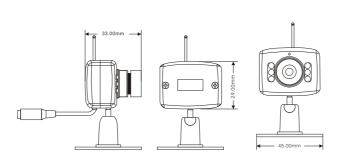






1003

- Classical Design for family use
- 1/4" CMOS
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 1.5 Lux
- Gimbal Bracket









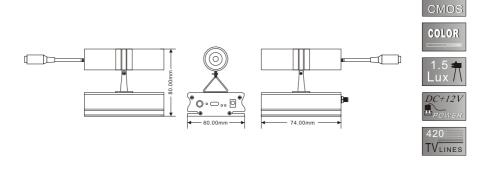








- Alloyed Shell
- 1/4" CMOS
- High-power
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 1.5 Lux

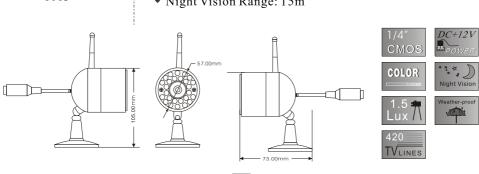


## OUTDOOR



1013

- Night Vision
- Weather-proof
- 1/4" CMOS
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 1.5 Lux
- 30 Infrared LEDs
- Night Vision Range: 15m





# STRUCTURE

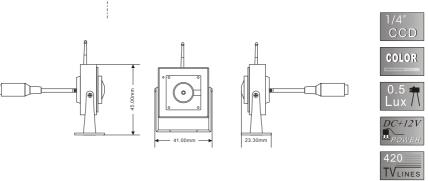
# HIGH-QUALITY CCD CAMERA

## **INDOOR**



901

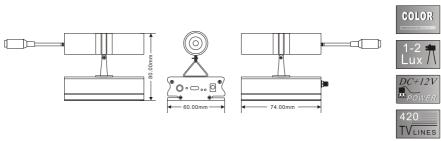
- Alloyed Shell
- Pinhole Lens
- 1/4" CCD
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 0.5 Lux





910

- Alloyed Shell
- 1/4" CCD
- High-power
- Horizontal Resolution: 420 TV Lines
- Minimum Illumination: 1-2 Lux



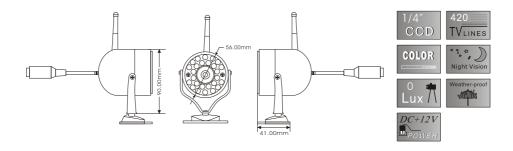


# OUTDOOR



913

- Night Vision
- 30 Infrared LEDs
- Weather-proof
- 1/4" CCD
- Horizontal Resolution: 420 TV Lines
- Minimun Illumination: 0 Lux



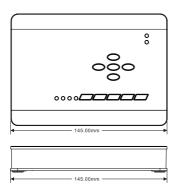


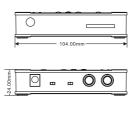
# STRUCTURE

# RECEIVER



- Frequency:ISM 2,400~2,483MHz
- Receiving Sensitivity:-85dBm
- Key-press Switch
- 4-Channel Options
- Motion Detect, Record & Play

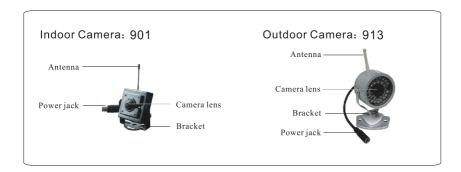


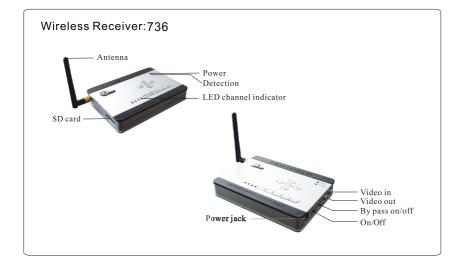






## **STRUCTURE**







#### PACKING LIST



Wireless Camera X 1



Home DVR ReceiverX1



Receiver Antenna X1



Adapter for Camera X 1



Adapter for Receiver X1



Connecting Cable X1

#### We will not deliver any notes for the possible changes of products



When using other corporation's provided peripheral equipments and part, please refer to the dealer. And make sure if it applies to the product. We will not be responsible for all the losses caused by using peripheral equipments provided not by us.

#### **ADAPTER**

Wireless home DVR camera series always conform to the authenticated AC adapter. Adapter for Indoor Cameras: DC + 8V / + 12V

Adapter for Outdoor Cameras: DC +8 V/ + 12 V

Adapter for Receivers: DC + 5V



Please make sure that the AC adapter is suitable to the local alternating current. When using the AC adapter, its surface temperature might increase. This is normal occurrence. Please put off the AC adapter from the outlet and carry it away till its temperature is low enough. We will not be responsible for any loss or damage caused by using the AC adapter of any other parties.



#### **CONDITIONS**

Please read the following messages to make sure whether your working environment is suitable.

- Ensure there is enough space around the receiver for ventilation.
- The temperature should be kept between -20°C and 50°C(-4°F-122°F). The relative humidity should remain from 20% to 80%.
- Avoid putting it in places where temperature or humidity might change rapidly.
- Keep it dry, dustless, and avoid exposing it directly to sunlight(excluding the weather-proof camera).
- Keep it far from heat sources such as electric heater.
- Do not put it in places where shake is serious.
- Do not use the camera near aggressive chemicals.
- Neither put it near the magnet, nor let the magnetic object approach it.



Keeping the product under bad storing or working conditions might seriously impact its durability or life time.



#### **FUNCTION SETUP**

#### CAMERA SWITCH AND PIP

In preview mode, press Display, can switch the interface of CAM1, CAM2 and PIP. But only the current one can detect moving objects.

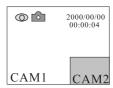
1. Press Display once, can switch to the preview mode CAM2.





2. Press Display again, can switch to the PIP.





3. Press Display again, can switch to the other PIP.

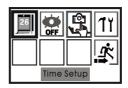




#### MOTION DETECT SETUP

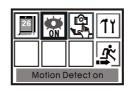
1. Press Menu to enter menu interface.





2. Press Left / Right to Motion Detect On/Off option.

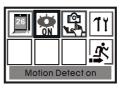


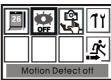




3. Press OK to switch Motion Detect ON or OFF.

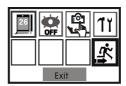






4. Press Left / Right to Exit option and then press OK to turn back.

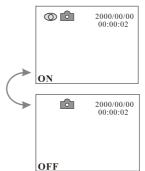




#### Motion detect quick setup

Pressing Up directly can switch to the Motion Detect ON/OFF.

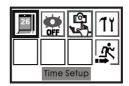




#### **CAPTURE FORMAT SETUP**

1. Press Menu to enter menu interface.

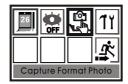






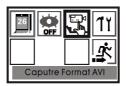
2. Press Left / Right to Capture Format Photo/AVI.

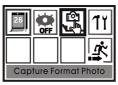




3. Press OK to switch Photo/AVI option.

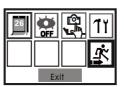






4. Press Left / Right to Exit option and then press OK to turn back.





#### Photo/AVI Quick Setup

Press Down directly can switch the Capture Format Photo/AVI.





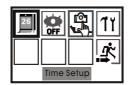




## ADVANCED SETUP

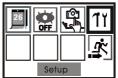
1. Press Menu to enter menu interface.





2.Press Left / Right to Setup option, then press OK for advanced setup.

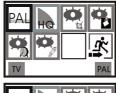




3. Press Left / Right to TV option to choose .
Press OK to switch TV mode PAL/NTSC.



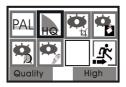






4. Press Left / Right to Quality option to setup.

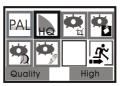


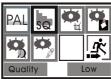


5. Press OK to switch High/Low image quality setup.



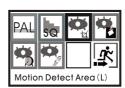






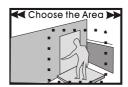
6. Press Left / Right to Motion Detect Area option to setup.





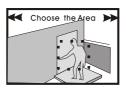
7. Press OK to motion detect area setup.





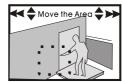
8. Press Left / Right to choose area(L,M,S) and then press OK.





9.Press Up / Down / Left / Right to move detect area and then press OK to exit setup.



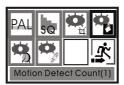






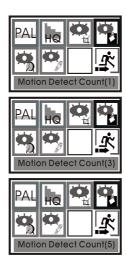
10.Press Left/Right to Motion Detect Count option to set up. It refers to how many photos it will take continuously while motion detect at a time.





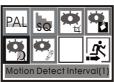
11. Press OK to choose count number (1,3,5).





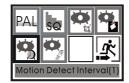
12. Press Left / Right to Motion Detect Interval option to setup. That means setting how many seconds interval between twice continuous motion detects.



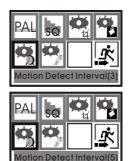


13. Press OK to switch time(1,3,5).



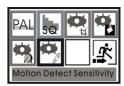






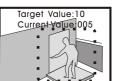
14. Press Left / Right to Motion Detect Sensitivity option to setup.



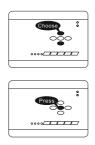


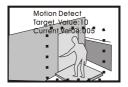
15. Press OK to sensitivity setup interface and there are target value and current value on the screen. The PVR motion detect sensitivity range is 01~99. The lower value it is, the higher sensitivity there will be.





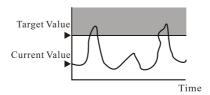
16. Press Up / Down to set sensitivity and then press OK to return the advanced setup interface.





#### Note

■ The motion detect sensibility can refer to the following diagram. When it reaches the target value, the system would shot or record automatically.



- Motion detect sensitivity set in different situation, the setting will also be different. Users can set proper sensitivity according to the image real situation in the spot simulative test.
- 17. Press Left / Right to Exit option and then press OK to return menu interface.





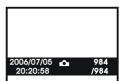
18. Press Menu to exit directly.



## DELETE IMAGE

1. Press Mode to playback interface in preview mode.





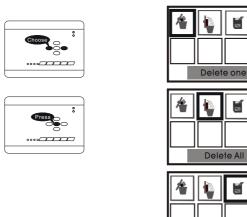
2. Press Menu to delete files.







3. Press Left / Right to choose deleting task (Delete One, Delete All, Format), and then press OK to confirm delete or not.



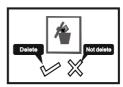
4. Press Left / Right to select Delete or Not option, and then press OK to confirm.



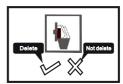


Format

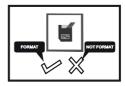
Delete One



Delete All



**Format** 

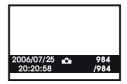




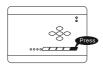
#### **CHOOSE FOLDER**

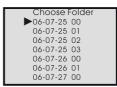
1. Press Mode to playback interface in preview mode.





2. Press Snapshot to choose folder, the sequence is based on date and time.



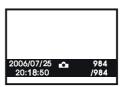


3. Press Up / Down to select the folder you want to see, and then press OK to confirm.





4. The screen shows the first photo in current folder.



5. Press Mode to turn back to preview mode.



#### **MAINTENANCE**

It might influence the normal operation of the product if using it at the fringe range of the normal temperature. Please cut off the power while not using it.

Do not disassemble the product.

Do not excessively shake or strike the product.

Do not let the non weather-proof product contact liquid.

Please obey the local government's environment protection policy.



# **APPENDIX**

# **SPECIFICATION**

( INDOOR)



1001



1003



1010

Item	Unit	Value
Imaging Sensor	Inch	1/4" CMOS
Active Pixels	Pixels	VGA 640 X 480
Horizontal Resolution	TV Lines	420
View Angle	Degree(°)	1001:59.4 1003:62 1010:60
Minimum Illumination	Lux	1.5Lux
Video Gain Control	•**•	Automatic
Frequency	MHz	ISM 2,400~2,483 4CH*
Transmission Power	mW	10
Modulation Mode	*	FM
Bandwidth	MHz	18
Power Supply	$V_{DC}$	1001/1010:+12V 1003:+8V
Consumption Current	mA	170 (Max)
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~ +85/-40~ +185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	1001:23X36X36 1003:32X36X28 1010:82X60X80
Weight	g	1001:60 1003:80 1010:185
Unobstructed Effective Range	m	100(Min)



# (OUTDOOR, NIGHT VISION)

Item	Unit	Value
Imaging Sensor	Inch	1/4" CMOS
Active Pixels	Pixels	VGA 640 X 480
Horizontal Resolution	TV Lines	420
View Angle	Degree(°)	45
Minimum Illumination	Lux	0 Lux
Video Gain Control	*	Automatic
Frequency	MHz	ISM 2,400~2,483 4CH*
Transmission Power	mW	10
Modulation Mode	*	FM
Bandwidth	MHz	18
Power Supply	Vdc	+12
Consumption Current	mA	170 (Max)
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~ +85/-40~ +185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	53 X 57 X 57
Weight	g	205
Unobstructed Effective Range	m	100(Min)
LED Continuous Working Life	hour	6000
Night-vision Range	m	15



1013



( INDOOR)

Item	Unit	Value
Imaging Sensor	Inch	1/4" CCD
CCD Total Pixels	Pixels	512X582(PAL) 512X492(NTSC)
Horizontal Resolution	TV Lines	420
View Angle	Degree(°)	59.4
Minimum Illumination	Lux	0.5Lux
Video Gain Control	· <b>※</b> ·	Automatic
Frequency	MHz	ISM 2,400~2,483 4CH*
Transmission Power	mW	10
Modulation Mode	*	FM
Bandwidth	MHz	18
Power Supply	$V_{DC}$	+12
Consumption Current	mA	120(Max)
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~ +85/-40~ +185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	23X36X36
Weight	g	60
Unobstructed Effective Range	m	100(Min)



901



( INDOOR)

Item	Unit	Value
Imaging Sensor	Inch	1/4" CCD
CCD Total Pixels	Pixels	628X582 (PAL) 510X492 (NTSC)
Horizontal Resolution	TV Lines	420
View Angle	Degree(°)	60
Minimum Illumination	Lux	1-2 Lux
Video Gain Control	•※	Automatic
Frequency	MHz	ISM 2,400~2,483 4CH*
Transmission Power	mW	10
Modulation Mode	*	FM
Bandwidth	MHz	18
Power Supply	V <sub>DC</sub>	+12
Consumption Current	mA	120
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~ +85/-40~ +185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	82X60X80
Weigh <sup>27</sup>	g	185
Unobstructed Effective Range	m	100(Min)



910



# (OUTDOOR, NIGHT VISION)

Item	Unit	Value
Imaging Sensor	Inch	1/4" CCD
CCD Total Pixels	Pixels	500X582(PAL) 510X582(NTSC)
Horizontal Resolution	TV Lines	420
View Angle	Degree(°)	45
Minimum Illumination	Lux	0 Lux
Video Gain Control	<b>*</b>	Automatic
Frequency	MHz	ISM 2,400~2,483 4CH*
Transmission Power	mW	10
Modulation Mode	*	FM
Bandwidth	MHz	18
Power Supply	$V_{ m DC}$	+12
Consumption Current	mA	80(Max)
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~+85/-40~+185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	53×57×57
Weight	g	205
Unobstructed Effective Range	m	100(Min)
LED Continuous Working Life	hour	6000
Night-vision Range	m	15





# HOME DVR RECEIVER



736

HOME DVK RECEIVER		
Item	Unit	Value
Receiver Frequency	MHz	ISM 2,400~2,483 4CH*
Intermediate Frequency	MHz	480
Demodulation Mode	*	FM
Antenna	*	50 ohm SMA
Receiving Sensitivity	dBm	≤ -85
Video Output Level	Vpp	1V <sub>p-p</sub> @75Ω,S/N>38dB
Internal Storage	MB	16
Photo Format	*	JPEG
Photo Pixels	Pixel	640 <b>X</b> 480
Video Format	*	AVI
Video Pixels	Pixel	320X240
Power Supply	VDC	+5
Consumption Current	mA	450
Operating Temperature	°C/ °F	-20~+50/-4~+122
Storage Temperature	°C/ °F	-40~ +85/-40~ +185
Operating Humidity	RH	85%
Dimensions(W*L*H)	mm	152X104X24
Weight	g	200

- ◆ 16 MB Internanal memory, can store 230 images or 50 video clips(10 seconds each), and a 2G SD card can store 28800 images or 4380 video clips (10 seconds each).
- ◆ Actual transmission range may vary according to weather, location, interference&building construction.



# **TROUBLESHOOTING**

Abnormal	Phenomena	Possible Reasons/Solutions
No image	No sound	Check whether camera/receiver connected to power supplies, and power on.  Make sure that the A/V cable is connected correctly.
Snowflakes of image	Noisy	Check if the channel of receiver is corresponding to camera; Check the distance and blocks.
Ghost image	Normal sound	Interfered by other sources; Check the distance and blocks.
No color	Normal sound	Mismatching system of TV (monitor) and cameras.

# Improve the Quality of Your Life

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