User's Manual

2.4GHz Color Wireless Camera Kit
Night Vision
MODEL:008LE

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

TABLE OF CONTENTS

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 purchase 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 builds in one CMOS image sensor and one transmitting module transmits the captured image wirelessly.

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, however, 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.

Approval Information

All our products meet the requirements of approval FCC or CE, and obtained the FCC or CE certification. They are authorized to bear FCC or CE 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 the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and the 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 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.

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.

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. We will 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.

DVR MAINTENANCE

1. Do not use the player in extreme heat, cold, dusty and humid environment.
2. Do not make players hit with hard object, otherwise you may cause frazzling on the surface of the player or the batteries shedding or damage to other hardware.
3. Please change batteries in the following condition:
   A. The system automatically shutdown, or shutdown soon after restart.
   B. No response when pressing boot button.
4. Never operate the player in extreme dry environment to avoid static.
5. Do not turn off the power while formatting or upload and download, otherwise you may cause a procedural error.
6. While using as a mobile hard disk, please store and export the file according to the correct.
   document management operating method. The company is not responsible for any errors methodsof operation lead to loss of document. (While connecting with PC, turning off the power suddenly when uploading or downloading will cause the player fail to transmit the file).

PRODUCT

Package Contents

This package comes with the following items. Please check whether they are all included in the packaging box, if any item is missing, contact the retailer for replacement.
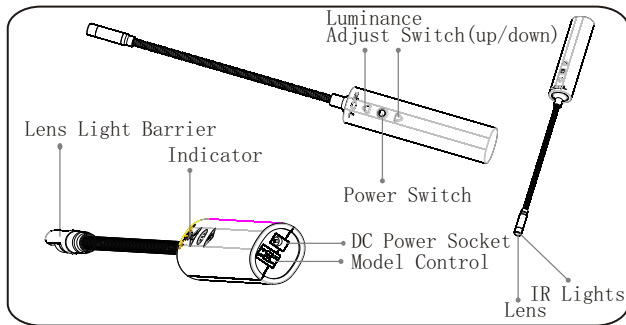
①2.4GHz Wireless Camera ×1
②2.4GHz Wireless Receiver ×1
③Adapter for Camera (DC 5V) ×1
④Adapter for Receiver (DC 5V) ×1
⑤AV Cable × 1
⑥USB Cable × 1
⑦Mounting Hardware × 1
⑧Lens Light Barrier(90°/120°)
⑨Silicon case for camera x1
⑩Silicon case for Receiver x1
⑪User's Manual × 1

Note:
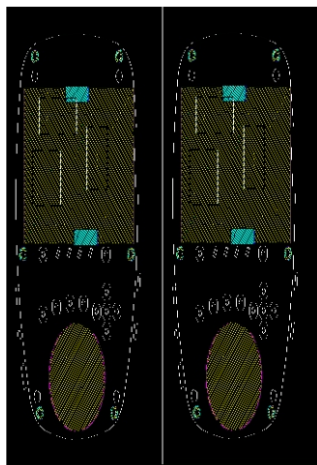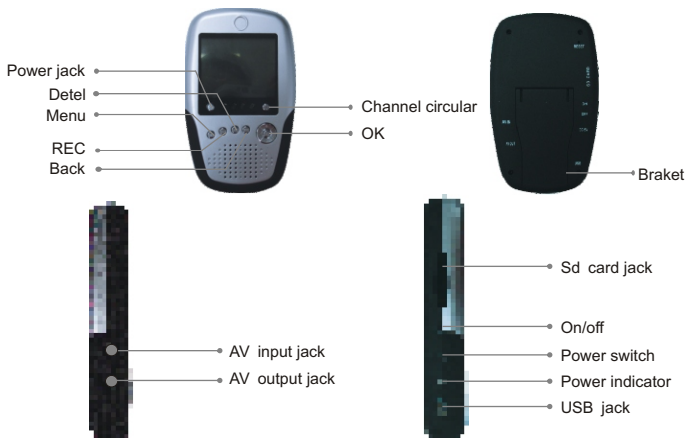*The pictures may vary from the actual objects.*

Feature Locations

Luminance Adjust Switch(up/down)

Lens Light Barrier

Indicator

Power Switch

DC Power Socket
Model Control

IR Lights
Lens

Power jack
Detel
Menu
REC
Back
Channel circular
OK
Braket

AV input jack
AV output jack

Sd card jack
On/off
Power switch
Power indicator
USB jack

1. Support MP3, WAV format music player.
2. Support JPEG picture browsing, zooming function.
3. Support MPEG4 encoder of AVI, ASF format video player.
4. Support MIC recording/ LINE IN straight recording (WAV code).
5. Support audio and video signal straight recording.
6. Support ANSI code of reading electronic documents.
7. Support USB2.0 transfer protocol, transfer rate 480mbps(Max).
8. With file function, such as implementing delete operation.
9. Support 2.4 G wireless receiving, real-time monitoring and recording

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

BS Mark
British power supply authentication

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

INSTALLATION & USAGE
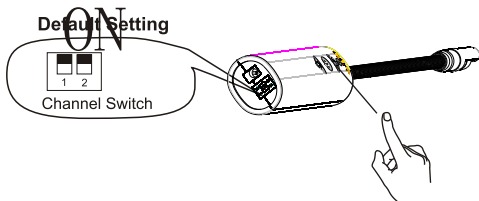## CAMERA

Installation

1.Connect the power jack of adapter(5V 2A) to camera and the indicator lights green.
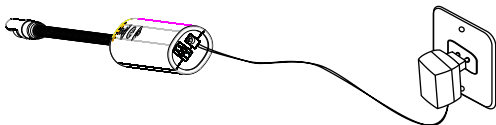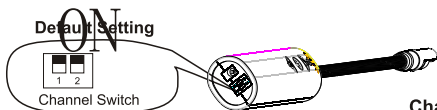
Notes:
- *The camera with built-in Li-battery is able to work continuously and independently anywhere*
- *If the battery runs out, please recharge it with the camera adapter (DC 5V 2A). The charge indicator lights up red during charging and turns dim after a full charge. A full charge will take about 2 hours.*
- *The power switch must be kept at* **OFF** *position during charging.*

2.Set the camera to one desired channel. Adjust the luminance adjust switch up/down to make the picture more clearly or not.

Default Setting

ON

1 2

Channel Switch

Camera Channel Setup

This camera has 4 selectable channels to avoid possible interference from other nearby wireless devices. Please open the channel switch cover and set the Channel Switch as the following diagram.

Default Setting

ON

1 2

Channel Switch

Channel Frequency

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

Channel Switch Setup Diagram

CH1	CH2	CH3	CH4
1 2	1 2	1 2	1 2

Note:
Press the receiver's channel button to select the channel same as the camera's, and the pictures are displayed on the screen.

Channel Frequency

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

INSTALLATION & USAGE
DVR

◆ Switch Function

1. Press the ON/OFF button for about 3s to turn on the player. The screen will show power on LOGO and then enter menu. See picture 1.

Picture 1

2. Press the ON/OFF button for about 3s to turn off the player in boot state.

Return to the upper menu:

1. Press ESC key to return to the upper menu under any circumstances.

◆ Monitor:
   1. Select monitor function in the main screen, (See picture 1), then click OK button to enter 2.4G wireless monitoring function.
   2. Enter wireless monitoring function then press REC button to start real-time video function. While in video status, press REC button to pause video. Press again to continue video. Press ESC button, the system save the information and exit to the preview mode.

3. While video, press MENU button to select parameters adjustment.

        Loop Time   Automatically adjust channel cycle time

        Bright   Brightness adjustment

        Contrast   Contrast adjustment

        Color   Color adjustment

4. Press DEL key while videoing to adjust video resolution: 640*480, 320*240, 160*128.
5. Press CH key to switch to the next channel audiovisual receive, and the corresponding channel indicator will brighten. The system circle in the four channels.
6. Press "△" UP key to turn up the volume while press "▽" DOWN key to turn down the volume.

◆ Multimedia:

1. Select multimedia function in the main screen and the following picture2 will pop up. Click OK to enter multimedia function screen and the following picture3 will pop up. If no file exist in the player, it will show "NO FILE" to prompt the user.

Picture 2
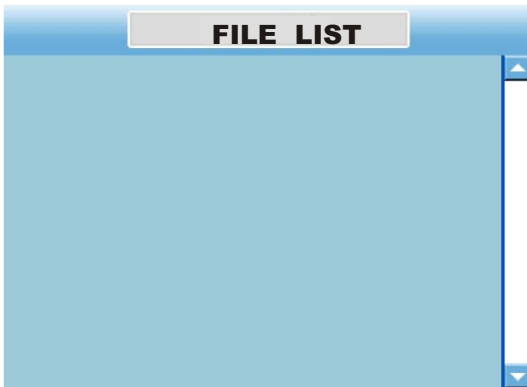
FILE LIST

Picture 3

2. Opening the file in the file list to start multimedia function.

A. Album:

Opening the file with the postfix of .JPEG to enter into album function.

a: Select the JPEG file by pressing UP or DOWN key and click OK key to open it full screen.

b: While in full screen status, press UP or DOWN key to show the previous or the following picture. Press OK or ESC key to zoom in or zoom out the picture. When the picture is in the zooming in status, press UP, DOWN, LEFT RIGHT to move the picture up, down, left or right.

c: Only support JPEG format, however not all JPEG format picture can be displayed. If the picture transforms with PMP invert software, all invert JPEG picture will display normally.

B. MP3 Player

Opening the file with the postfix of .mp3 to enter into mp3 play function.

a: Enter mp3 file list and press UP or DOWN key to select the song you desire to play. PressOK key to play the song and show the play interface as shown in picture4.
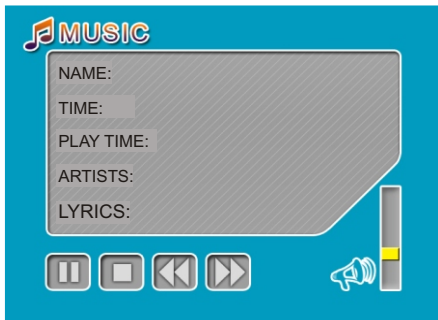
Picture 4

b: Enter the play interface and press UP or DOWN key to turn up or turn down the volume. Press LEFT or RIGHT key to select the motion you want to perform, for example, pause,play, stop, play previous file, play following file. Select the icon and press ENTER key to perform the function.

c: Lyric synchronous: To play the function normally, the lyric file name much be just the same as the mp3 file name, besides they must be in the same list.

C. Electronic Document Read

Opening the file with the postfix of .TXT to enter into electronic document function.

a: Enter electronic document list interface and press UP or DOWN key to select the .txt file you desire to read. Select the file and press OK key to show the file full screen. Press UP or DOWN key to page up or page down.

b: Only support ANSI code format file.

D. MP4 player

Opening the file with the postfix of .AVI, ASF, MOV, MP4 to enter into MP4 video function.

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◆ Record

1. In the main screen, select REC function (see picture 5) and click OK key to enter REC function interface. See picture 6.
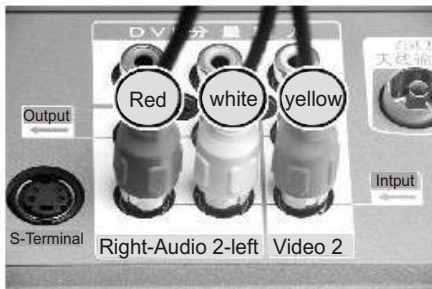

Picture 5

Picture 6

a: Plug the corresponding AV wire then select video and press OK key to enter AV-IN function.

Connect the player with TV or DVD with AV wire.
Plug the AV connecting wire with 3.5mm pin into the AV IN jack of the player, then plug the AV wire with the yellow, red and white output pin into the AV output socket of TV or DVD.

（Yellow - Video）
（Red - Left-channel）
(White - Right-channel)

Picture 7

b: Plug AUDIO wire, select record and press OK key to enter into LINE-IN record function.
c: Select transmitter, click OK key to enter into MIC record function (See picture 8). Press REC key to start to time record. Press again to stop.
d: The record capacity is to storage until the memory is full.

Picture 8

◆ System setting:

Select the system setting function (See picture 9) in the main screen and press OK key to enter into system setting interface (See picture 10). Press UP or DOWN key to select the options you desire to set. Click OK key to enter into the setting of this option and press UP or DOWN key to select the value you desire to set. Finally click OK key to confirm your settings.


Picture 9

Picture 10

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1. Storage: Select the memory and SD card.
2. Storage Size: Examine the memory capacity.
3. Format:
   a: Format: Format the memory.
   > Note: All information will lose while formatting.
   b: Cancel: Format cancel and return to the upper menu.
4. Clock Set: Set time and date.
5. Display Setting:
   a: LCD: Image display on the PMP screen
   b: TV: Image is unable to display on the PMP screen, however, it can output the signal by video port, you also can connect it to the TV.
   Note: Make sure you have plugged the AV connecting wire with 3.5mm pin into the AV OUT jack of the player, and the AV wire with the yellow, red and white output pin have been plugged into the AV input socket.
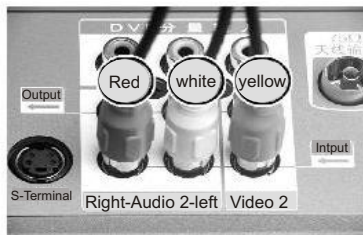
（Yellow - Video）
（Red - Left-channel）
(White - Right-channel)

6. Brightness: Adjust the brightness of the player.
7. Auto Power Off: Set automatically shutdown time.
8. Default: Select the default to default the setting.

◆ Plug and unplug SD card
1. Support hot-swap SD card, that is you don't need to shutdown while swap the card.

◆ USB connecting

1. Turn on the player first.
2. Connect the fringe USB connecting wire to your PC USB interface and the USB interface of the player.
3. The player screen will show the confirm dialog.
   a: Selection: Storage
   The "Local dick" letter will show in window system resource manager. If using WIN98 system, please install player management software and connect it to the device. Then the player installation is finished and you can upload the file by USB wire.
   b: Selection: Firmware upgrade
   Used to update software upgrade.

◆ Power adapter charge

When the red indicator on the player lightens, the player is charging by the power adapter. If the indicator turns green, the charging is finished. (Note: Only use the special power adapter, otherwise you may cause the player damage. The manufacture take no responsible for such kind of damage.)

SPECIFICATION

CAMERA	Imaging Sensor	1/18inch CMOS
	CMOS Total Pixels	320*240(NTSC)
	View Angle	55°
	Transmission Frequency	ISM 2,400MHz~2,483MHz
	Transmission Power	10mW/CE; 2mW/FCC
	Modulation Type	FM
	Bandwidth	18MHz
	Power Supply	DC 5V 2A
	Consumption Current	50mA
	Unobstructed Effective Range	10m(Min)

* Actual transmission range may vary according to weather, location, interference and building construction.
* All the specifications are subject to minor change without prior notice.

Receiver

Alternating current	AC100V-240V
Direct current	DC 5V 2A
Power	0.8W, display for 4-5 hours
Power supply	Built-in 3.7V 1500mAh Li-battery
Charging time	3hours

TV system	PAL/NTSC
S/N ratio	≥85dB
Headphone output power	5mW(L)+5mW(R) at 32 Ohm
Speaker output power	1W at 8Ohm

Audio file format	MP3, WAV
Image file format	JPEG
Video file format	MPEG4(*AVI, ASF) VGA 640*480 30pfs

Display	2.5'' TFT LCD (320RGB X240)
SD card	≤2GB
2.4G module sensitivity	−85 dBm
2.4G module band	2400-2483 MHz
USB Version	2.0 High Speed (480MB/S)
Support OS	Windows98/SE/ME/2K/XP/Vista
Display language	Simple English, Chinese

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.
No image	Noisy	Check wether the li-battery runs out
Snowflakes on image	Noisy	1. Check if the channel of receiver is the same as that of camera; 2. Check the distance & blocks.
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.