

English



## User's Manual

**Portable WiFi Camera viewed by mobile phone**

**Infrared Night Vision / white Flashlight**

**Water Resistant**

**Magnetic base**

**Model: EH05**



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

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# INTRODUCTION

Thank you for purchasing this wireless camera kit. This product works at ISM-2.4GHz frequency band, which can be legally used worldwide without permission. We feel confident that you will be pleased with the quality and features of this product. The camera has CMOS image sensor and a transmitting module to capture the image and wirelessly transmits the image to your Smart phone. It use WiFi digital transmission and is interference free. The receiver can be any type of Smart phone with Android/IOS system.

## **Notice**

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

**Product Assurance:** This camera will emit electromagnetic waves, just like other wireless products. But its transmitting power is less than other wireless products such as mobile phones. The WiFi camera meets wireless frequency security standards and recommended indexes while working. These standards and indexes are certificated by academic organizations 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 our customers.

## **Warranty**

This product has a **one year limited warranty** with an effective date that begins the date of purchase. Refer to the troubleshooting guide at the end of this manual for help. Please retain proof of purchase receipt for verification. Any attempted disassemble of the product will void the warranty. **Do not return defective product to the retailer.**

## **FCC Warning:**

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter

## **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 purposes;
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 the heart pacemaker and lead to respiratory disturbance;
3. DO NOT use this product for any illegal activities. We are not be responsible for any consequences of illegal acts committed by the user.

## **Maintenance**

1. Do not shake or strike the product;
2. Keep product away from heat sources such as electric heaters;
3. Do not use the camera near caustic chemicals;
4. Do not use the camera in the places which are enclosed by metal.
5. Please obey the local government's environment protection policy;
6. Please turn off the power when unused
7. Do not disassemble or repair the camera. Doing so might cause damages to the product and also **VOID THE WARRANTY**.

# PRODUCT

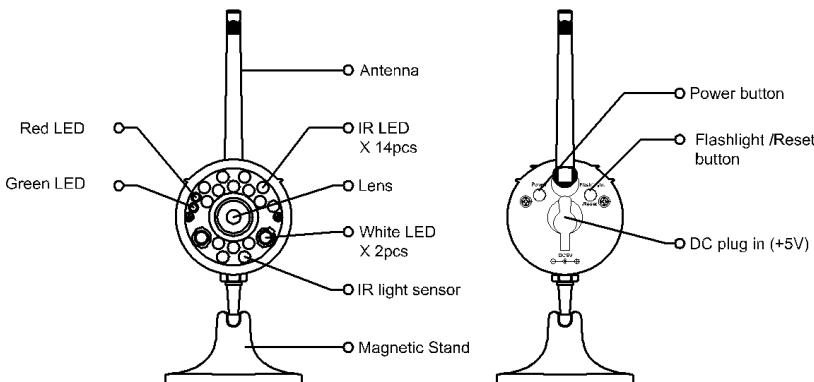
## Included Parts

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

- ① Camera x1
- ② AC power charger x1
- ③ Antenna x1
- ④ USB Charging Cable x1
- ⑤ Power extension cable x1
- ⑥ User manual x1



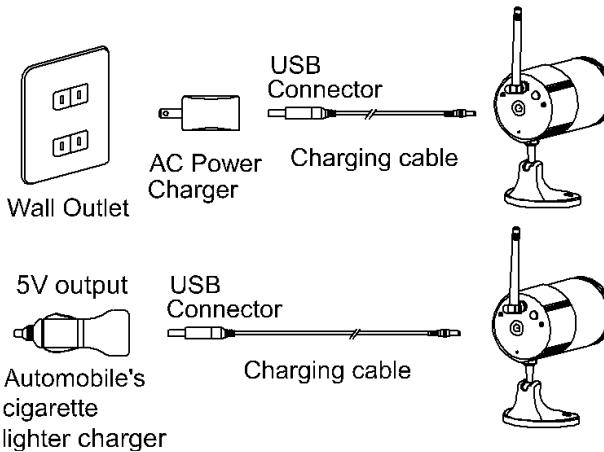
## Feature Locations



You can scan the QR code on the side of product box or on the label of Quick Guide (Or search APP from Google play for Android phone, Apple store for iPhone). Please refer Quick Guide for QR code image.

## 2. Charging the Camera

- Connect the camera with automobile's cigarette lighter charging cable( 5V DC output). AC adapter with 5V DC output can be used as well. Full charge will take about 6 hours for the camera.
- Camera can work when charging.



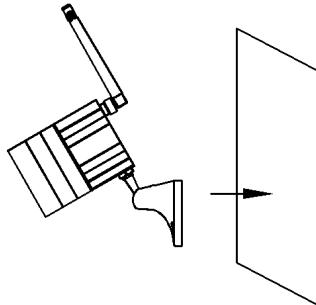
### Notes for camera:

- If the battery is exhausted, please recharge it with the charging cable.

| CAMERA LED INDICATOR | STATUS                     |
|----------------------|----------------------------|
| Red on               | Charging when power off    |
| Red off              | Finish charging            |
| Green on             | Power on                   |
| Green off            | Power off/Work in STA mode |
| Green blinking       | Work in AP mode            |

### 3. Mount the Camera

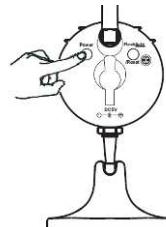
- Mount the camera on the trailer tailgate, and then adjust a suitable angle to see the hitch bolt you want to see.



- Camera can be attached by strong magnetic base or Gopro compatible holder

### 4. Power On the Camera

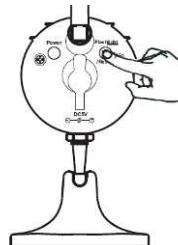
- After the camera is fully charged, press the camera power button to turn on your camera



- **(Option)** You can turn on the white LED to use it as a flash in darkness, or make the background of the video from your camera more clear. Press the camera Flash ON/OFF button to turn on white LED.

#### Note:

- 1) Press and hold flash ON/OFF button for about 10 seconds can reset the camera.
- 2) Camera will enter AP mode after reset and reboot



## 5. Viewing the Camera With Smart Phone

### a) AP Mode (Access camera directly without wireless router)

Note: AP mode: Camera can function as a WiFi access point(hotspot). Smart phone can connect with camera directly.

Chose the WiFi SSID named " IPCAM\_xxx" on smart phone WiFi access list(FIG-01)



FIG-01

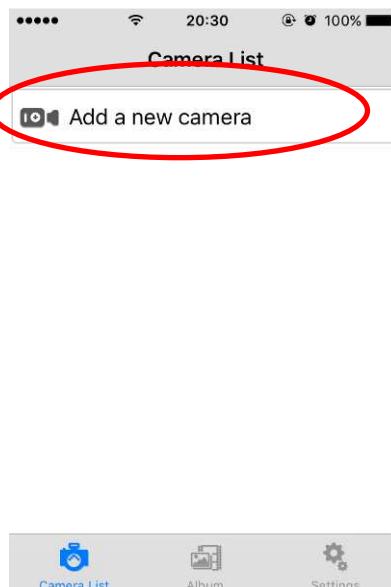


FIG-02

- 1) Enter WiFi password: leave it as blank or enter "88888888"
- 2) Run downloaded APP on smart phone
- 3) Tap on camera icon to add the camera (FIG-02).
- 4) Tap on "Search in LAN"(FIG-03).

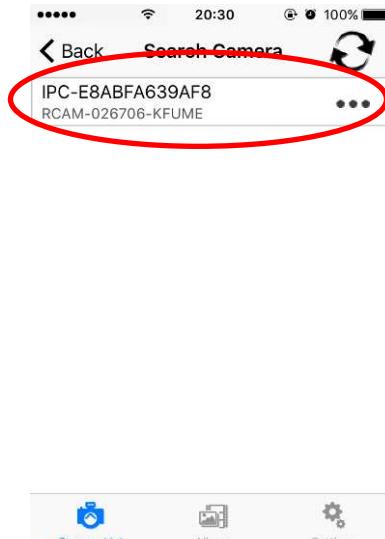
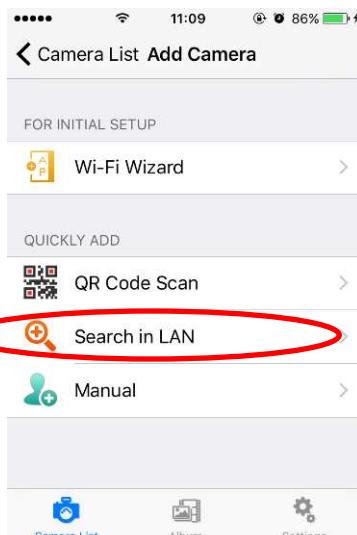


FIG-03

FIG-04

- 5) Camera will search and display with ID code. (FIG-04)
- 6) Click the ID code and enter the camera setup menu. You can edit your camera name and then click "Save " (You can leave password blank) (FIG-05), and you will see the "Camera List" interface (FIG-06)

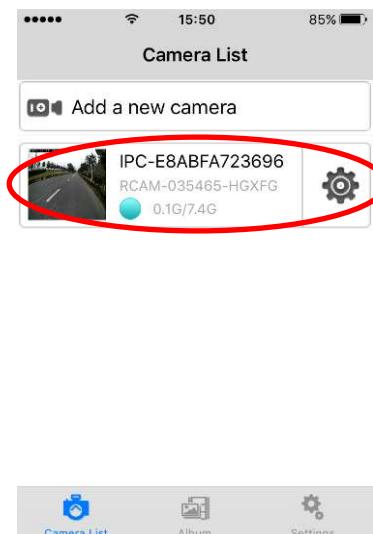
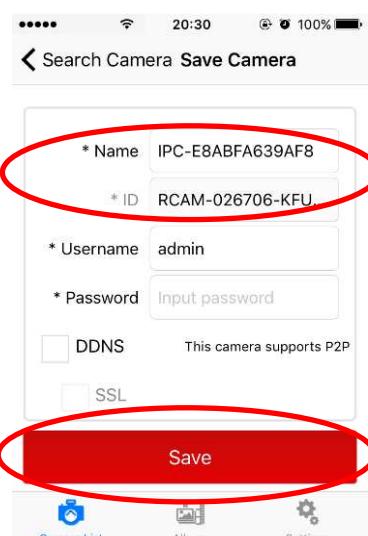


FIG-05

FIG-06

7) The camera which has a Bright Blue point icon show that the camera has connected to your Smart phone.(FIG-06)

8) Tap on the camera which you want to see,(FIG-06), and you can start enjoying camera lives. (FIG-07)



FIG-07

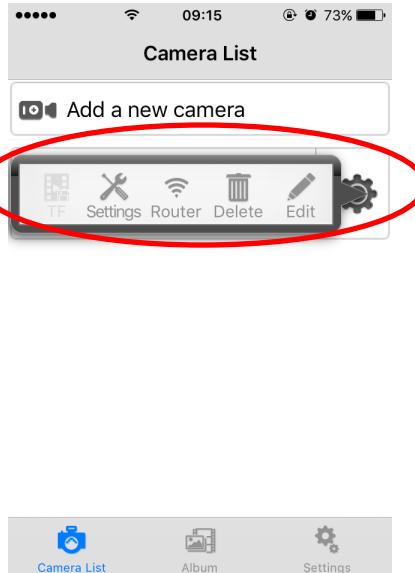


FIG-08

## 2. STA Mode(Access camera via wireless router ,optional)

Note: STA mode: Camera works as a device which can connect with wireless router, Smart phone view camera via this router.

If you have a wireless router nearby where the camera is installed, you can connect your camera to the WiFi network of this router, and then view the camera either in LAN or WAN network.

This can extend the wireless transmission distance of the camera, as long as your smart phone connects to this wireless router, you can see the video from your phone. If your router is connected to the internet, you can view the video on smart phone or PC at any place



having the internet access.

1) Enter the main menu of the camera list, Tap on the icon of the camera which you want to set. You will see pop up setting menu, Tap on "Router" on the menu(FIG-08) . You will see

a List of WiFi SSID nearby(FIG-09):

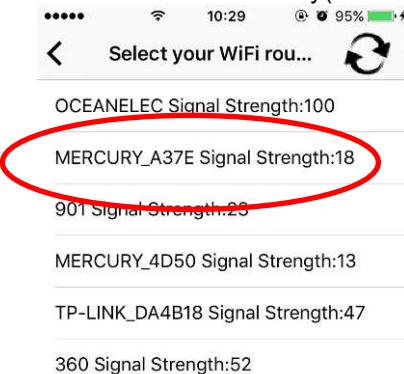


FIG-09

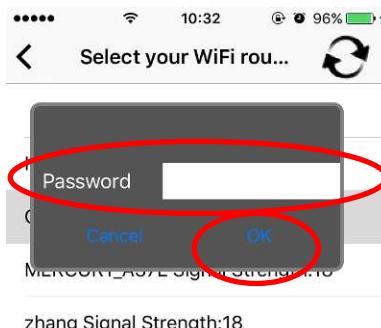


FIG-10

2) Choose the WiFi SSID of your wireless router, input the correct password, click “OK”, (FIG-10) Your camera will be rebooted and shift to STA mode. The wifi icon will be displayed as bright blue color as below.



If wrong password is input, you camera will not be able to establish valid WiFi connection to router and camera waits another 30 seconds to go back AP mode and then you need setup camera again with correct password to function in STA mode.

Note: Reset the camera will make the camera go to AP mode

### 3. Switch from STA Mode to AP Mode

If you want your camera to disconnect with the wireless router, you can switch the camera from STA to AP mode again:

- 1) Enter the main menu of the camera list, tap on icon, then click “Setting” icon (FIG-08) , you can enter camera setting menu(FIG-11):
- 2) Click “ wireless settings”, You will see wireless LAN Mode setting button, click “AP” mode, and click “Set”(FIG-12), there will appear a dialog box, click “Sure”, Your camera will be rebooted and disconnect from the WiFi network of your wireless router and back to the AP mode which can view video directly from smart phone.

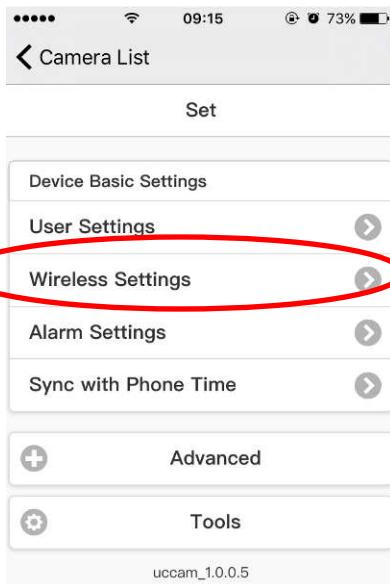


FIG-11

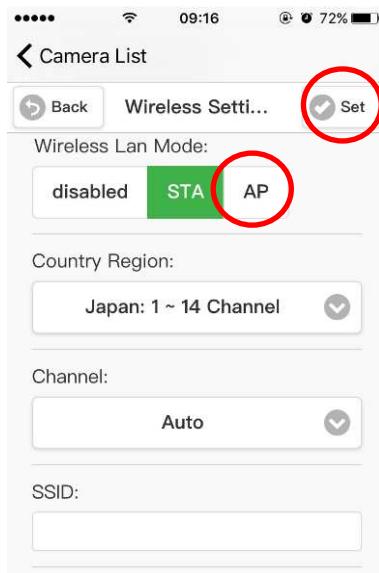


FIG-12

#### 4. Main Function of Camera APP

When you enter the video interface. (FIG-07), you can operate the main function of the APP as following:

- 1) Click  to set image parameter (FIG-13) such as brightness, contrast, saturation, sharpness, mirror and flip.

Mirror function can exchange the left and right of the image when you put your camera facing to the tail of your Car/Truck/RV so you can see the video as normal direction).

Video can also be turned upside down by choose check box "Flip" ( exchange the Up side and Down side)



FIG-13

2) You can change the video quality by choose your prefer quality level by click icon



IOS APP selection

Standard: VGA 640x480 resolution

HD: 1280x720 resolution

Android APP selection:

High definition: 1280x720 resolution

Standard definition: VGA 640x480 resolution

Smooth: keep the video steam faster and fluent ( less delay)

3) You can take a picture directly by clicking



and save its in local memory storage

of smart phone.

4) You can record videos directly by clicking



and save its in local memory storage

of smart phone.

5) You can open the camera voice by clicking



(If the camera has built-in microphone)

6) You can zoom to full screen of the image by clicking



and you can back to normal display by change the smart photo orientation from horizontal to vertical. (Portrait orientation lock must be set to off for Smart phone )

7) Video record playback and photo review

You can review and playback the picture

and video that you have taken and

saved in local memory storage of

smart phone.

8) Enter the camera list interface.

Refer to FIG-06

9) Click



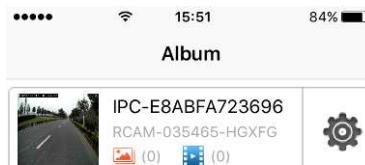
, Click the camera

Album

which you want to see.

Then select the record files(FIG-14)

Note: Android APP icon is



10) Click the files you want to see.

Then you can see the video or photo.

11) You can share these video/photo

to your friends on Facebook/Twitter

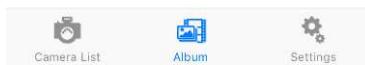


FIG-14

## 5. Advance Function & Setting On Home Security Application

## 1) Scheduled recording function:

When you use the camera for home security, you can set as following:

- ◆ Enter the main menu of the camera list, tap on icon, then tap on “Setting” icon (FIG-08), then enter camera setting menu.
- ◆ Click “Advanced”, then select “Record Setting” and click. (FIG-15)

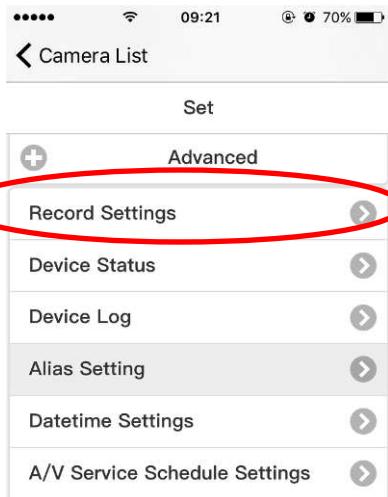


FIG-15

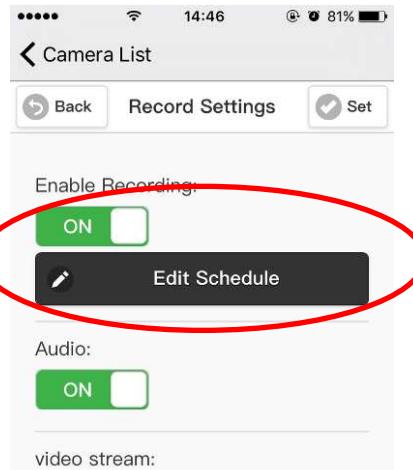


FIG-16

- ◆ Set “Enable Recording” to “ON” (FIG-16), click “Edit Schedule” , you will enter record schedule setting sub menu , select the specific date & time you want to record, then click “Set”

## 2) Alarm function

- ◆ You can set alarm and record video into the built in TF card of the camera after the alarm is triggered and let you check the alarm event by viewing video on your phone or download recorded video to your phone.
- ◆ The alarm can be triggered by motion detection or sound
- ◆ Enter camera setting menu, select and click “Alarm Setting”.
- ◆ On the setting menu, set “Open Alarm” button to “ON” to let the alarm is triggered when the alarm condition happen such as motion detection, object missing , sound etc. (FIG-17).
- ◆ Set “ Enable Arm Schedule” to “ON” and click “Edit Schedule”, you can set the alarm schedule by specifying date & time which alarm can be triggered.
- ◆ Set “ Enable Motion Detect” to “ON” and click “Edit ”, you can set the motion detect area which you want. (FIG-18)

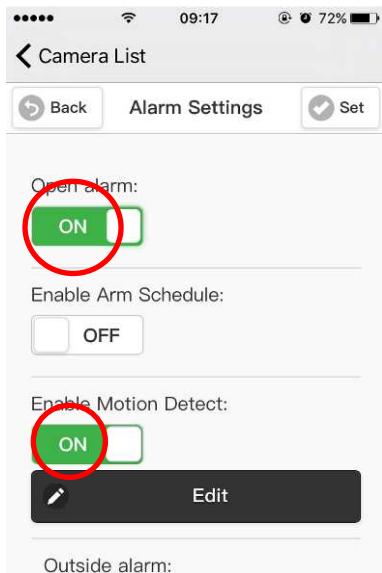


FIG-17



FIG-18

- ◆ Click “Set” to complete alarm settings and back to the camera list, you will see the alarm icon when alarm is triggered to remind you to check the recorded alarm video on TF card of the camera :



- ◆ If the camera is connected to internet by router, and you set the receive push notice to ON (FIG-19) you will get a push notification for warning message when the alarm is triggered (FIG-20), click “OK” , you can view the alarm picture on your phone.

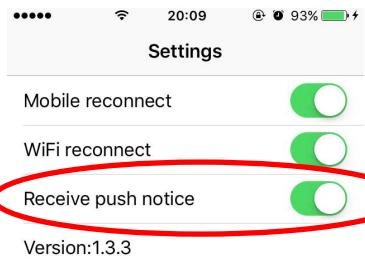


FIG-19

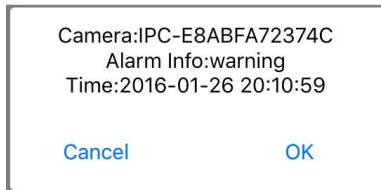


FIG-20

◆ Enter the main menu of the camera list, Click  con (FIG-08), then click the TF icon as following(FIG-21) to check the recorded video in TF card (FIG-22). Select a video file to open. you can play video right away. Or download it to your phone



FIG-21

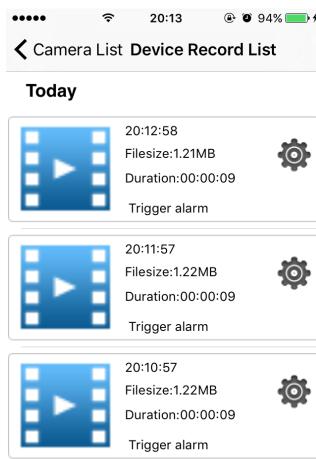


FIG-22

### 3) User name and authorization setting:

You can set the user name of the account to mange the camera, different user can have different authorization to control the camera , alias of the camera could also be set.

◆ Enter the main menu of the camera list, Click  , then click “Setting” icon (FIG-08), then enter camera setting menu.

◆ Click “ User Setting”, then you can set the user information(FIG-23)

◆ Alias setting: Enter “Advanced” menu, select and click “Alias Settings”, you can set camera alias.(FIG-24)

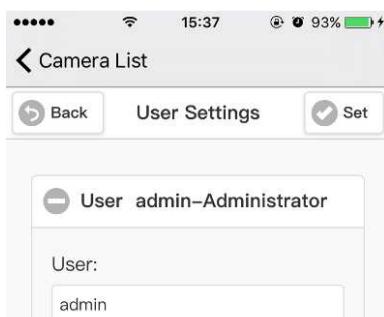


FIG-23

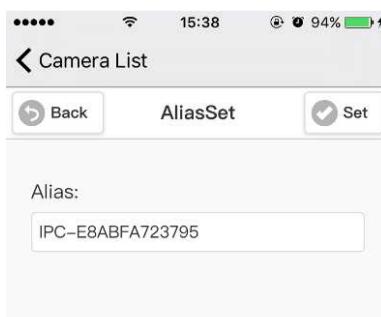
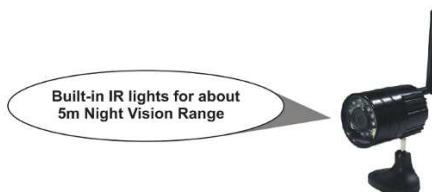


FIG-24

## Night Vision

The built-in Infra-red lights in your camera provides 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.



## Water Resis .....

The water resistance feature is for the camera only. The camera can be used in rain but we do not recommend submerging the entire camera.

## Install TF Memory Card

You can insert TF memory card into camera by yourself.

- 1) Take off the front cover of camera by rotating counter-clockwise (Fig-25)
- 2) Insert TF card into the card tray with correct direction (FIG-26)
- 3) Put back the front cover of camera
- 4) You can see the memory size information of TF card on the phone.(FIG-27), including total space and used space.

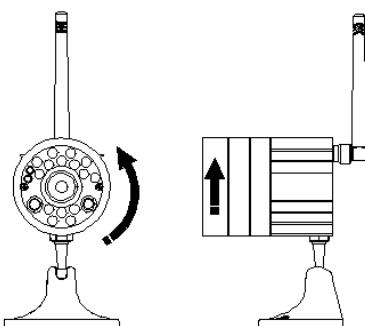


FIG-25

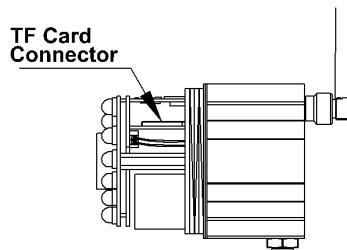


FIG-26



FIG-27

# SPECIFICATIONS

| Item         | Description                       | Specification/Parameter               |
|--------------|-----------------------------------|---------------------------------------|
| Wireless     | Working Mode                      | P2P/AP/STA                            |
|              | Transmission standard/Protocol    | WiFi-----IEEE 802.11B/G/N CSMA/CA ACK |
|              | Modulation Mode                   | OFDM/DBPSK/DQPSK/CCK                  |
|              | Transmission Distance             | 50m(open area site)                   |
|              | Receiving Sensitivity             | -85dBm@11M                            |
|              | Transmission Power                | 17dBm (Max.)                          |
|              | Antenna                           | 2dBi /External                        |
| Video        | Imaging Sensor                    | 1/4"CMOS                              |
|              | Total Pixels(Max)                 | 1280x720 ( 1 Mega)                    |
|              | Resolution                        | 1280x720/640x480/320x240              |
|              | Compression Mode                  | H.264                                 |
|              | Frame Rate                        | 25bps/VGA, 15bps/720P                 |
|              | View Angle                        | 100°                                  |
|              | Minimum Illumination              | 2.0Lux/F2.0 & 0Lux (IR ON)            |
| Power        | Power Supply Input                | DC+5V                                 |
|              | Battery Type                      | Li- battery 3.7V/3000mAH              |
|              | Consumption Current               | 330mA (IR & white LED off)            |
|              | Charge Time                       | Up to 6 hours (Power off)             |
|              | Working Time                      | 7 hours(IR OFF)/ 5 hours(IR ON)       |
|              |                                   | 3hours(White LED ON)                  |
| Night Vision | LED Quantity                      | IRLED 14pcs/White LED 2pcs            |
|              | IR LED Light Range                | 5m /60°                               |
| Others       | Waterproof Grade                  | IP66                                  |
|              | Magnet base                       | 8kg (Vertical) attaching strength     |
|              | Weight                            | 320g                                  |
|              | Outline Dimension (W x H x T) MAX | 70x 54 x 504mm (W/O base stand)       |
|              | Store temperature                 | -40°C~85°C / -40°F~185°F              |
|              | Operation temperature             | -10°C~50°C / 14°F~122°F               |
|              | Operation humidity                | 0%~90%                                |

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

# **TROUBLESHOOTING**

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

| <b>Abnormal Phenomena</b> | <b>Possible/Solutions</b>  |
|---------------------------|--|
| Can not find camera WiFi  | <ul style="list-style-type: none"><li>● Check if the camera is power on</li><li>● Check the distance &amp; blocks.</li><li>● Check if there is stronger wifi signals from other routers</li><li>● Camera is hooked to wireless router first but router don't work</li><li>● Tried both AP and STA mode, but still could not find camera, please reset the camera</li></ul> |
| Disconnect with camera    | <ol style="list-style-type: none"><li>1. Check the distance &amp; blocks</li><li>2. Re-power on/off or reset camera</li></ol>  |
| Low frame rate video      | <ol style="list-style-type: none"><li>1. Interference signal from other source</li><li>2. Check the distance &amp; blocks</li><li>3. Check the video quality setting</li></ol>   |

## **Thank you for using the EsiCam**

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