

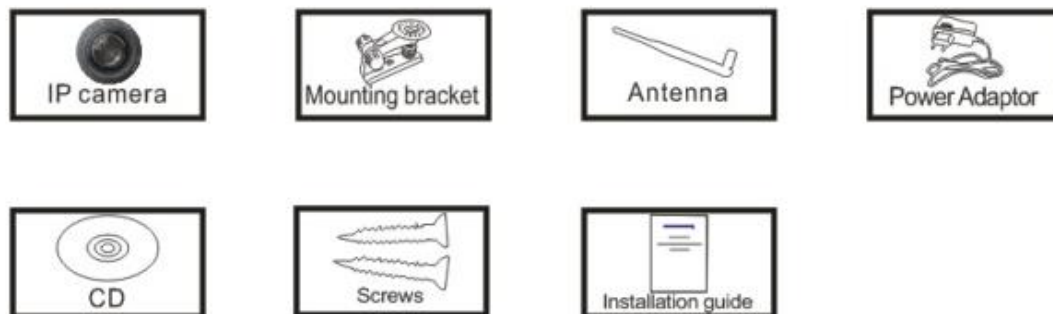
IP Camera

HWC059

Wanscam

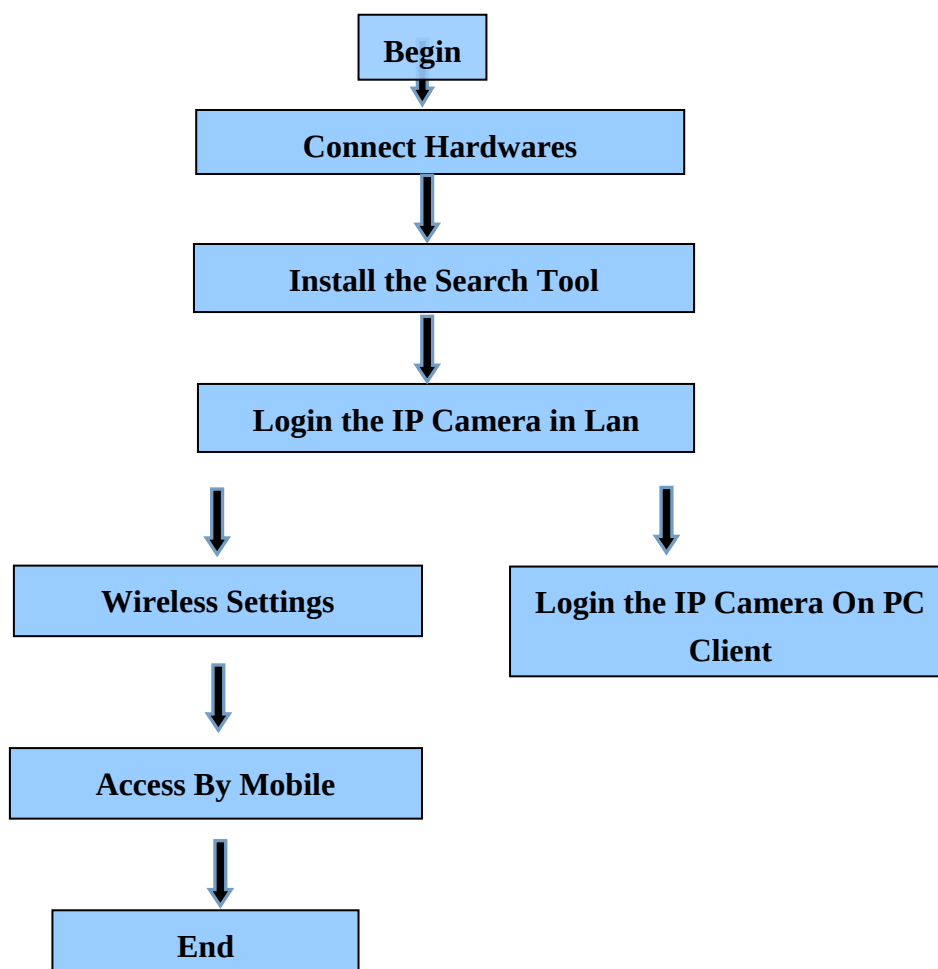
Shenzhen Wanscam Technology Co., Ltd

Packaging list:



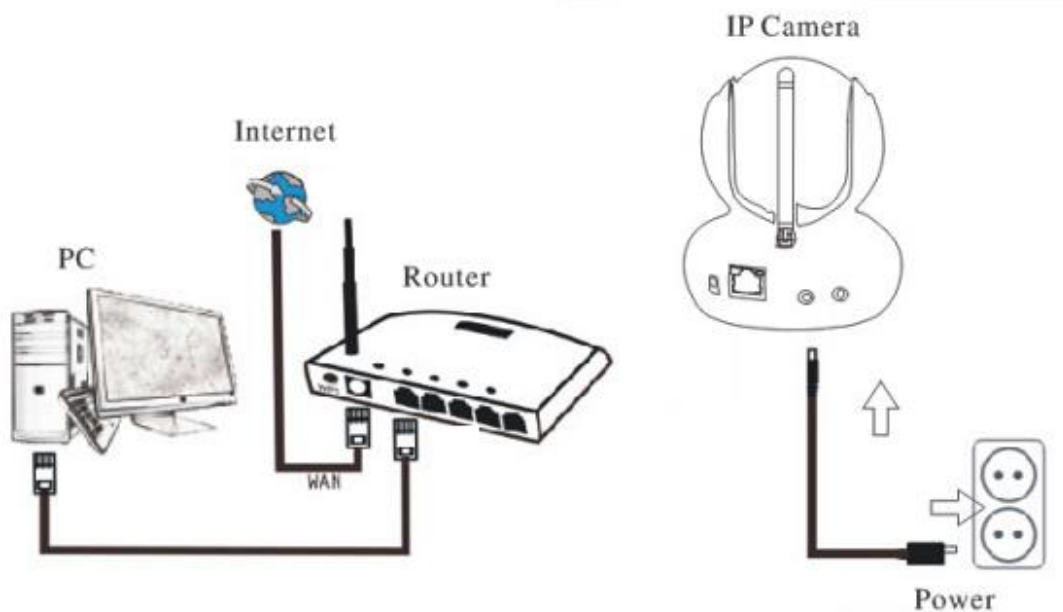
 **Note:** Some camera models don't have separate antenna(fixed)

Installation procedures:



 **Note:** For the first time use IP Camera, please refer to the procedures

above



Connect the Camera with Internet cable and power accordingly as above

2.Install the Search Tool



Open the CD,Install the following software:

1. Open the File "JW & HW series"->"Browser View":

Click "OCX setup"—>"Next"—>"Install"—>"Finish"

2. Open the File “JW & HW series”-”Browser View”:

Copy “Search Tool ” to desktop and run it

3. E-View7 App Installation

APP Download

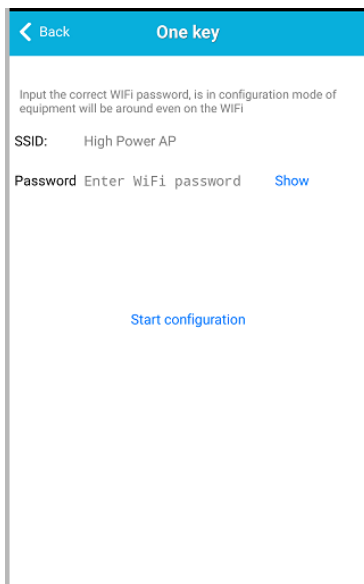
Please Download and install the E-view7 APP before you set up the IP Camera. Search on Google Play store or APP Store for “E-view7”



One Key Setting Function (cell phone must be connected to the WiFi.)

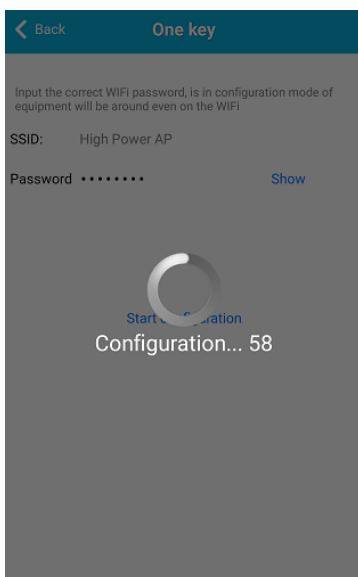
Step1.Connect the camera with power adaptor (you do not need to connect the Ethernet cable).

Step2.Launch the APP, tap on “+” to access the “Add Camera” function, then click on “One Key Setting”, and the screen shown below will appear:



1

Step3.Enter the correct WiFi password, then click on “Start configuration”, like shown in the screen below:



2



3

Step4. Wait for 60 seconds, then choose the respective device and enter the password. If done, click on save to connect to the WiFi.

Three methods to add IP camera

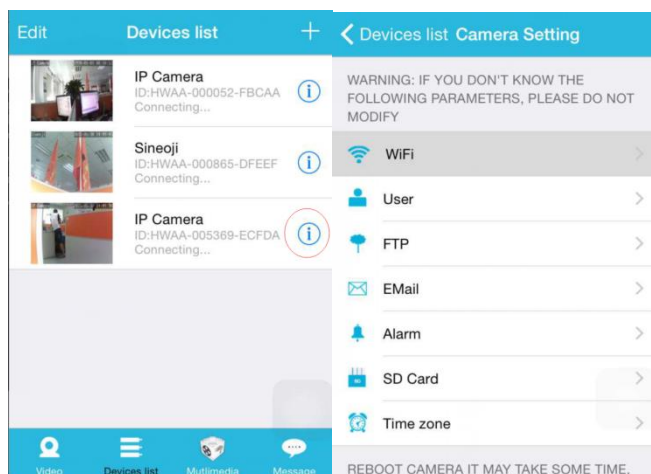
Method 1:Input the P2P ID, User name, Password of your camera manually.
Then click “Save”

Method 2:Scan the QR code:Click the “Scan QR code” button,at the bottom of the camera, there is a label of QR Code, then scan the QR code with your smart phone,it will show the ID, input the user name and password, then click “Save ”

Method 3:Click “Search”, then you will get the local camera list in your phone.
Choose the camera which you want to view, input the user name and password, then click “Save”

Then the video will be showed,refer to picture 7

Click the “!” In the red circle,the camera settings are available,refer to picture 8

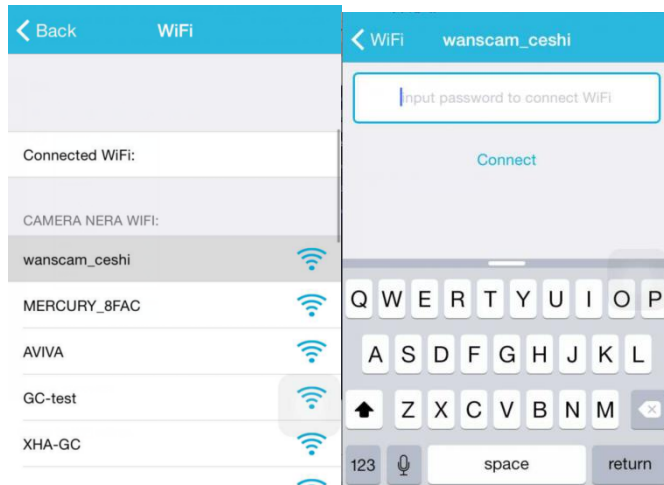


7

8

Open the WiFi settings,showed as Picture 9

choose the correct SSID,and input the password,like picture 10



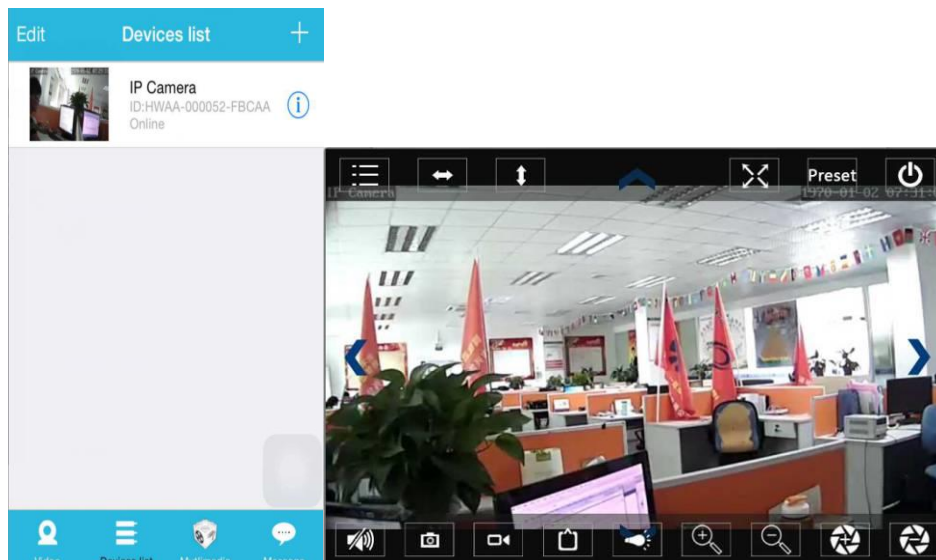
9

10

After wifi connection, the camera will be rebooting,

You will find the camera online after 3-5 minutes

The video will be showed wirelessly, refer to Picture 11 and 12



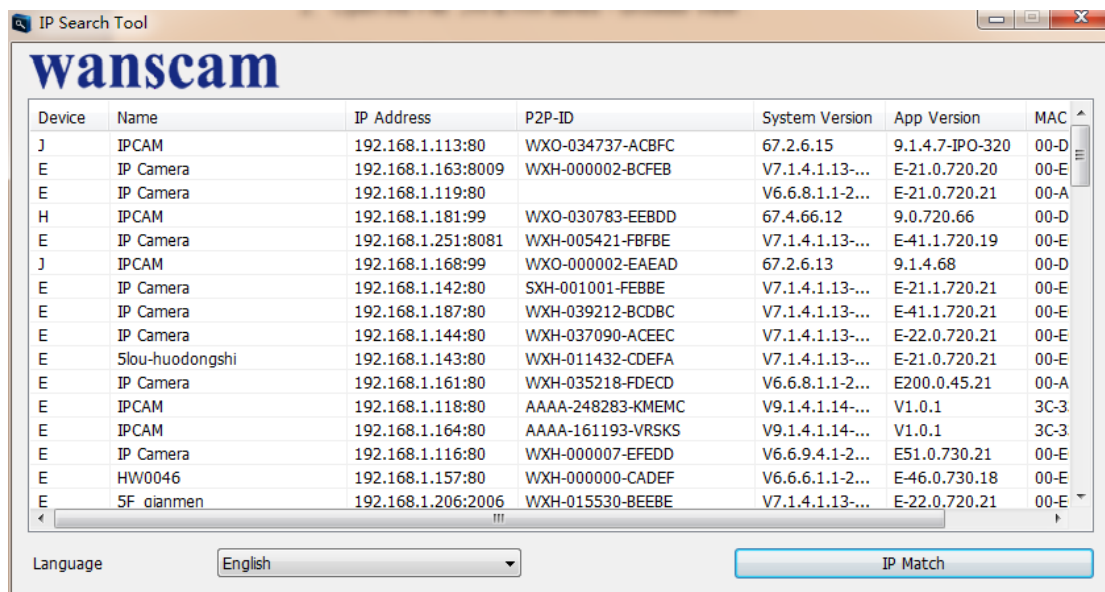
11

12

4. Login IP Camera In LAN

After hardware connection properly, run the search tool, the Camera IP Address will

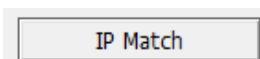
be showed automatically. (Before viewing camera on IE, you must set One Key Setting)



The IP Search Tool window displays a table of discovered devices. The table has columns for Device, Name, IP Address, P2P-ID, System Version, App Version, and MAC. Below the table, there is a language dropdown set to 'English' and an 'IP Match' button.

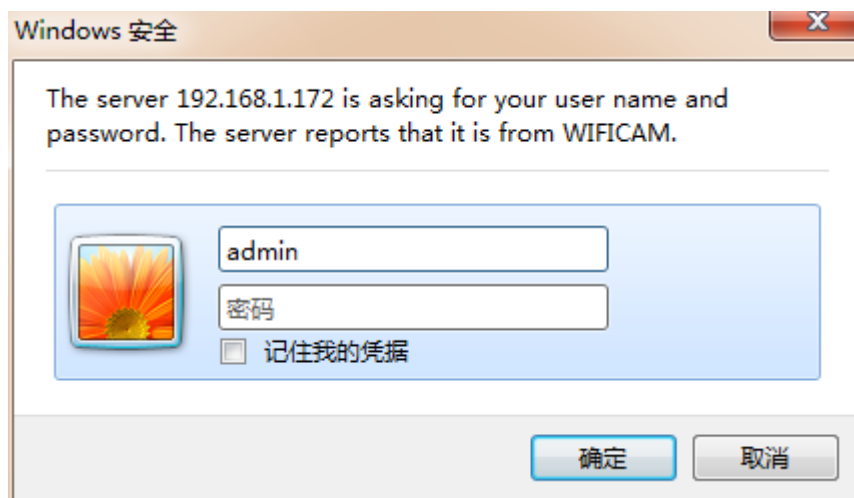
Device	Name	IP Address	P2P-ID	System Version	App Version	MAC
J	IPCAM	192.168.1.113:80	WXO-034737-ACBFC	67.2.6.15	9.1.4.7-IPO-320	00-D
E	IP Camera	192.168.1.163:8009	WXH-000002-BCFEB	V7.1.4.1.13-...	E-21.0.720.20	00-E
E	IP Camera	192.168.1.119:80		V6.6.8.1.1-2...	E-21.0.720.21	00-A
H	IPCAM	192.168.1.181:99	WXO-030783-EEBDD	67.4.66.12	9.0.720.66	00-D
E	IP Camera	192.168.1.251:8081	WXH-005421-FBFB	V7.1.4.1.13-...	E-41.1.720.19	00-E
J	IPCAM	192.168.1.168:99	WXO-000002-EAEAD	67.2.6.13	9.1.4.68	00-D
E	IP Camera	192.168.1.142:80	SXH-001001-FEBBE	V7.1.4.1.13-...	E-21.1.720.21	00-E
E	IP Camera	192.168.1.187:80	WXH-039212-BCDBC	V7.1.4.1.13-...	E-41.1.720.21	00-E
E	IP Camera	192.168.1.144:80	WXH-037090-ACEEC	V7.1.4.1.13-...	E-22.0.720.21	00-E
E	Slou-huodongshi	192.168.1.143:80	WXH-011432-CDEFA	V7.1.4.1.13-...	E-21.0.720.21	00-E
E	IP Camera	192.168.1.161:80	WXH-035218-FDECD	V6.6.8.1.1-2...	E200.0.45.21	00-A
E	IPCAM	192.168.1.118:80	AAAA-248283-KMEMC	V9.1.4.1.14-...	V1.0.1	3C-3
E	IPCAM	192.168.1.164:80	AAAA-161193-VRSKS	V9.1.4.1.14-...	V1.0.1	3C-3
E	IP Camera	192.168.1.116:80	WXH-000007-EFEDD	V6.6.9.4.1-2...	E51.0.730.21	00-E
E	HW0046	192.168.1.157:80	WXH-000000-CADEF	V6.6.6.1.1-2...	E-46.0.730.18	00-E
E	5F dianmen	192.168.1.206:2006	WXH-015530-BEEBE	V7.1.4.1.13-...	E-22.0.720.21	00-E

 **Note:** If the Search Tool shows [subnet mask does not match](#), please click



Double click the camera IP address in the search tool.

A Sign-in interface will be showed on your default browser, like the below:



The sign-in window is titled 'Windows 安全' (Windows Security). It contains the text: 'The server 192.168.1.172 is asking for your user name and password. The server reports that it is from WIFICAM.' Below this text is a login form with a user icon, a text field containing 'admin', a password field labeled '密码' (Password), and a checkbox labeled '记住我的凭据' (Remember my credentials). At the bottom are '确定' (OK) and '取消' (Cancel) buttons.

 **Note:** username is “admin”;password is none
(Please change the account info for safety after login)

The login screen will be showed after the correct user name and password input

WANSCAM



livestream mode (for Internet Explorer)



videostream mode(for FireFox)



snapshot mode (for smartphone)

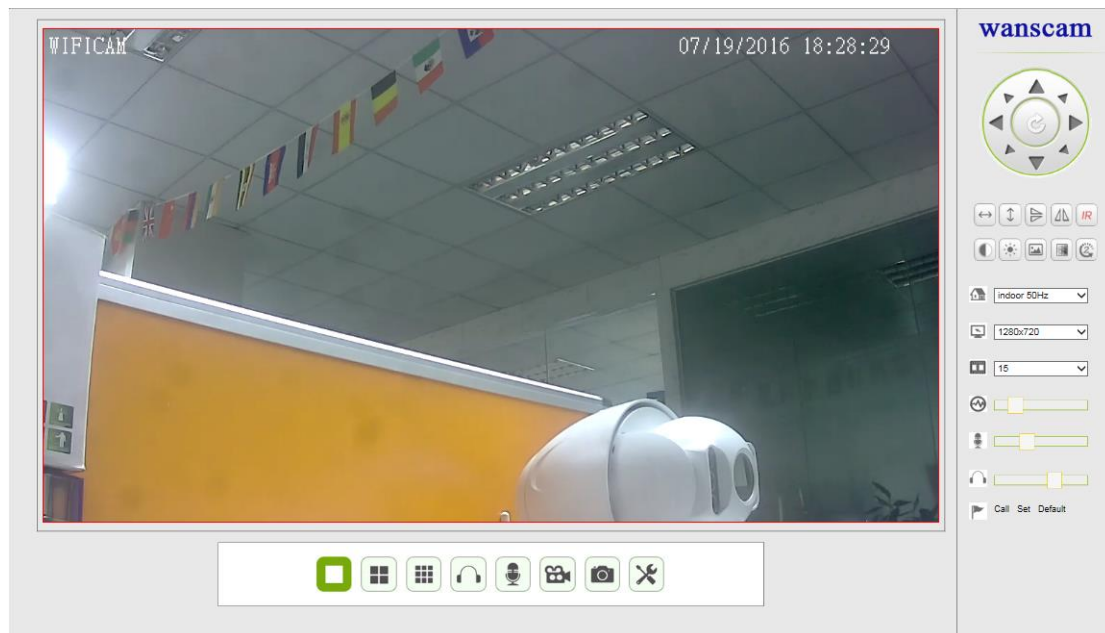


SD card video playback online

 **Note:** If the OCX installed before,then login directly

- A. Click “OCX” to download and Install it.
- B. Refresh the webpage and login again,the camera video will be displayed as below

Live video



5.Device information Setting



1).Click , access the “ Device information” settings

2)Checking the information of the ipcamera

System Settings

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

Device Status	
Device Firmware Version	A75.56.1.16.45E
Device Embeded Web UI Version	12.9.7.4-en
Alias	WIFICAM
Device ID	SPCN-000574-DBFPK
Alarm Status	None
UPnP Status	UPnP Succeed
MAC	00:f9:ec:ca:22:bf
WIFI MAC	00:0E:00:07:33:53
sd total capacity(M)	0 M
sd state	sd card is not inserted
Language	English

Refresh

6.Alias setting

The display name of the camera

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

Alias Settings

AliasWIFICAM

Set upRefresh

7. Time Setting



- 1).Click , access the “time” setting
- 2)You can choose the NTP server you want,and click “Apply”
- 3)Choose the time zone you want,click “Apply”,you can get it

System Settings

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

Device date&Time Settings	
Device Clock Time	Tue, 19 Jul 2016 18:32:59 UTC
Device Clock Timezone	(GMT +08:00) Beijing, Singapore, Taipei
Sync with NTP Server	☒
Ntp Server	time.nist.gov
Sync with PC Time	

Set up Refresh

8. Record setting

1

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

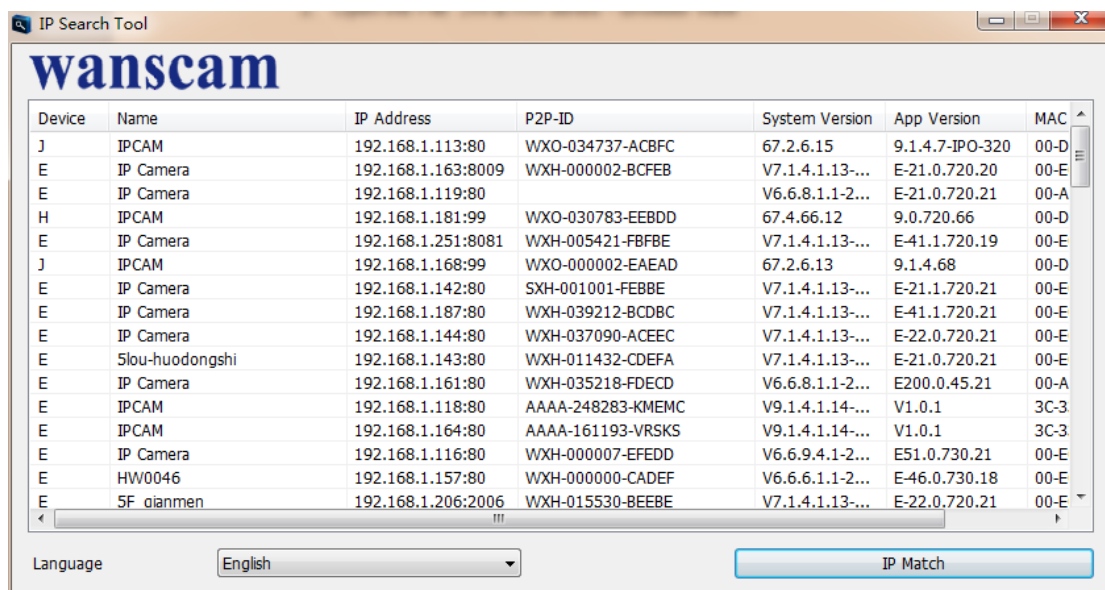
Local record path	
Local record path	C:\Users\Administrator\Desktop select...
Record file length(MB)	1000 Least 100MB , MAX 1000MB
Record time length(Minute)	5 Least 5 Minutes , MAX 120 Minutes
Reserved disk space(MB)	200 Least 200MB
Record cover	☒

Set up Refresh

- Record & Capture Path: Where to store the files, video and photos. (If you can't choose this, pay attention to your PC OS and IE version, please use the IE browser.)
- Record file length: At least 100MB
- Record time length: At least 5 minutes.
- Reserved disk space: If your pc disk space is less than 200MB, stop recording.
- Record cover: Delete the old files when the disk capacity is almost depleted.

Note : If you can not change the recording path, please follow these steps:

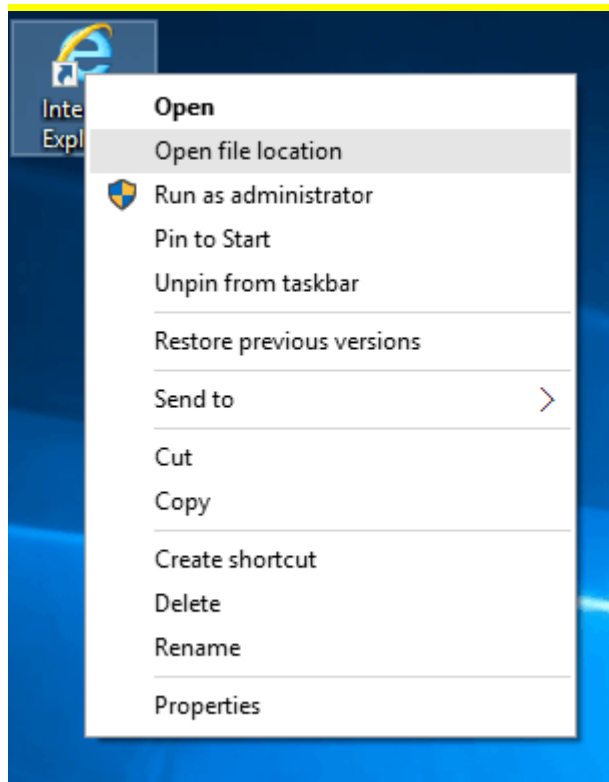
First, please open search tool, Find the camera's ip address :



The screenshot shows the 'IP Search Tool' window with the 'wanscam' logo. It displays a table of discovered devices with the following columns: Device, Name, IP Address, P2P-ID, System Version, App Version, and MAC. The table lists 20 devices, including various IP cameras and a hardware device named 'HW0046'. At the bottom, there is a 'Language' dropdown set to 'English' and an 'IP Match' button.

Device	Name	IP Address	P2P-ID	System Version	App Version	MAC
J	IPCAM	192.168.1.113:80	WXO-034737-ACBFC	67.2.6.15	9.1.4.7-IPO-320	00-D
E	IP Camera	192.168.1.163:8009	WXH-000002-BCFEB	V7.1.4.1.13-...	E-21.0.720.20	00-E
E	IP Camera	192.168.1.119:80		V6.6.8.1.1-2...	E-21.0.720.21	00-A
H	IPCAM	192.168.1.181:99	WXO-030783-EEBDD	67.4.66.12	9.0.720.66	00-D
E	IP Camera	192.168.1.251:8081	WXH-005421-FBFBE	V7.1.4.1.13-...	E-41.1.720.19	00-E
J	IPCAM	192.168.1.168:99	WXO-000002-EAEAD	67.2.6.13	9.1.4.68	00-D
E	IP Camera	192.168.1.142:80	SXH-001001-FEBBE	V7.1.4.1.13-...	E-21.1.720.21	00-E
E	IP Camera	192.168.1.187:80	WXH-039212-BCDBC	V7.1.4.1.13-...	E-41.1.720.21	00-E
E	IP Camera	192.168.1.144:80	WXH-037090-ACEEC	V7.1.4.1.13-...	E-22.0.720.21	00-E
E	Slou-huodongshi	192.168.1.143:80	WXH-011432-CDEFA	V7.1.4.1.13-...	E-21.0.720.21	00-E
E	IP Camera	192.168.1.161:80	WXH-035218-FDECD	V6.6.8.1.1-2...	E200.0.45.21	00-A
E	IPCAM	192.168.1.118:80	AAAA-248283-KMEMC	V9.1.4.1.14-...	V1.0.1	3C-3
E	IPCAM	192.168.1.164:80	AAAA-161193-VRSKS	V9.1.4.1.14-...	V1.0.1	3C-3
E	IP Camera	192.168.1.116:80	WXH-000007-EFEDD	V6.6.9.4.1-2...	E51.0.730.21	00-E
E	HW0046	192.168.1.157:80	WXH-000000-CADEF	V6.6.6.1.1-2...	E-46.0.730.18	00-E
E	SF qianmen	192.168.1.206:2006	WXH-015530-BEEBE	V7.1.4.1.13-...	E-22.0.720.21	00-E

Then, Run IE browser as administrator :



Finally, Paste IP address of the camera in IE browser, Click “Enter” and find the below page then you can modify the video path :

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

Local record path

Local record path	D:\	select...
Record file length(MB)	1000	Least 100MB , MAX 1000MB
Record time length(Minute)	5	Least 5 Minutes , MAX 120 Minutes
Reserved disk space(MB)	200	Least 200MB
Record cover	☒	

Set up

Refresh

9.Record Schedule

This section explains the **SD card recording settings**. If the SD card has been inserted, the capacity of the card will be displayed. But at first, you need to format it. It includes: Record coverage, Record time, Timer recording. The settings are like follows:

Device basic information

Device information

Alias Settings

Device date&Time Settings

Local record path

SD Card Record Schdule

Alarm Service Settings

Network configuration

PTZ configuration

User&device manage

Record Schdule

sd total capacity(M)0 M

sd statesd card is not insertedFormat

Record coverage☒

record audio☒

Timer recording☒

select all☒

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

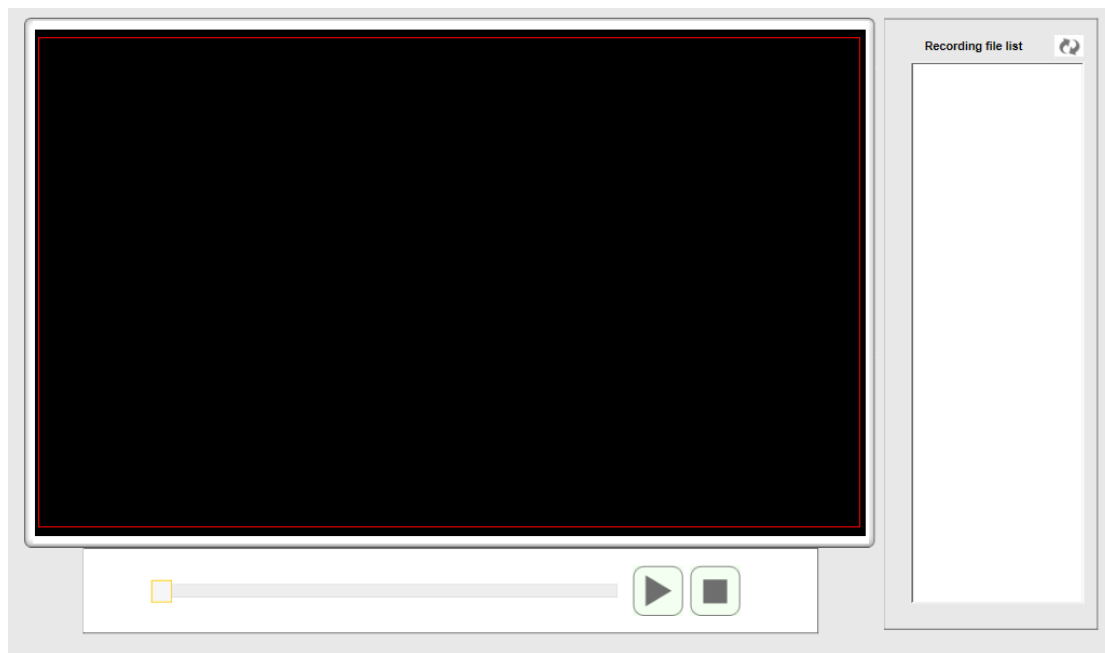
Set upRefresh



- Record coverage: Delete old files when the SD card is nearly full.
- Record time: Create a video file every 10 minutes.
- Timer recording: Set the time, select all, store recording to the SD card.

You can playback the video online with **IE browser**. Press the “Enter” button, choose the last

sign in code:  **SD card video playback online**



10.Mail Service Settings and Alarm Service Settings

- 1). The Mail service settings are a requirement for the alarm function. If your camera will be activated it will send you an email with photos attached. For this, you must assure that the mail service is configured correctly and successfully tested.
Here an example for Gmail.

Device basic information

Alarm Service Settings

Alarm Service Settings

Mail Service Settings

Ftp Service Settings

Log

Network configuration

PTZ configuration

User&device manage

Mail Service Settings	
Sender	@qq.com
SMTP Server	smtp.qq.com @qq.com
SMTP Port	25
Need Authentication	☒
SSL	NONE
SMTP User	@qq.com
SMTP Password	
Receiver 1	@qq.com
Receiver 2	
Receiver 3	
Receiver 4	
	Test Please set at first, and then test.

Set up

Refresh

It will send an email if the camera is activated.

You must enter the following information:

Sender: Enter your email address

Receiver: Enter your email address or a different email address

SMTP user: Enter the email username

SMTP password: Enter your email password

Note: This function only works if the IP camera is accessed via the network. If you use Gmail, the port should be configured as 465, SSL should be TLS. The most important, make sure that your Gmail has SMTP enabled.

After first test email, you will receive an email from google with an login attempt.

Option 2 :

Change your setting to allow less secure apps to access your account, follow these steps :

1. Go to the "Less secure apps" section in my account.
2. Next to "Access for less secure apps", select Turn on. (Note to Google Apps users : This setting is hidden if your administrator has locked less secure app account access)
3. More details about allow less secure apps, please refer to this link : <https://support.google.com/a/answer/6260879?hl=en>.

It will send you a notification as soon the camera will be activated (depends on the model)
Alarm Service Settings, please use the same settings like in the screenshot below:

Alarm Service Settings	
Motion Detect Armed	☒
Motion Detect Sensibility	10 The smaller the value, the more sensitive
alarm audio Sensibility	forbid detection
Infrared alarm	☒
Alarm Input Armed	☒
Trigger Level	Low
Alarm trigger event	
Alarm preset linkage	None
IO Linkage on Alarm	☒
Output Level	Low
Send Alarm Notification by Mail	☒
Upload Image on Alarm	☒
Upload picture number	0 (0~10)
Alarm recording	☒
Alarm Arming Time	
Scheduler	☒
select all	☒
Day	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Sun	

If you let the camera page (browser) on, if the come will be activated, 1 minute will be recorded.

11.Ftp service setting and system Log

FTP setting:

Device basic information

Alarm Service Settings

Alarm Service Settings

Mail Service Settings

Ftp Service Settings

Log

Network configuration

PTZ configuration

User&device manage

Ftp Service Settings

FTP Server	1192.168.1.54
FTP Port	21
FTP User	admin
FTP Password	●●● 
Upload picture period	0 0 show no pictures upload(30~3600)
Test Please set at first, and then test.	

Set up Refresh

- 1). The Alarm log is provided for administrators to monitor the alarm events

Device basic information

Alarm Service Settings

Alarm Service Settings

Mail Service Settings

Ftp Service Settings

Log

Network configuration

PTZ configuration

User&device manage

Log

2016-07-19 17:37:34 localhost ntp ok
2016-07-19 17:37:34 localhost msntp verify time ok
2016-07-19 17:37:59 localhost Date Read last time
2016-07-19 17:33:14 localhost ntp ok
2016-07-19 17:33:14 localhost msntp verify time ok
2016-07-19 17:20:36 localhost Date Read last time
2016-07-19 17:19:30 p2p param opration
2016-07-19 17:19:30 p2p param opration
2016-07-19 17:19:16 localhost Date Read last time
2016-07-19 17:18:28 p2p livestream is run
2016-07-19 17:18:28 p2p param opration
2016-07-19 17:18:13 p2p param opration
2016-07-19 17:18:13 p2p param opration
2016-07-19 17:17:56 localhost Date Read last time
2016-07-19 17:16:36 localhost Date Read last time
2016-07-19 17:11:51 localhost ntp ok
2016-07-19 17:11:51 localhost msntp verify time ok
2016-07-19 17:11:14 localhost Date Read last time
2016-07-19 17:06:29 localhost ntp ok
2016-07-19 17:06:29 localhost msntp verify time ok
2016-07-19 17:00:39 localhost Date Read last time
2016-07-19 16:59:19 localhost Date Read last time
2016-07-19 16:57:59 localhost Date Read last time
2016-07-19 16:50:29 localhost ntp ok
2016-07-19 16:50:29 localhost msntp verify time ok
2016-07-19 16:46:20 localhost Date Read last time
2016-07-19 16:41:35 localhost ntp ok
2016-07-19 16:41:35 localhost msntp verify time ok
2016-07-18 16:32:38 localhost Date Read last time
2016-07-18 16:21:53 localhost ntp ok
2016-07-18 16:21:53 localhost ntp ok

clear

Refresh

12.Basic Network Settings & wireless

1)You may modify the network Settings of IP address and gateway, and the port number

Device basic information

Alarm Service Settings

Network configuration

Basic Network Settings

Wireless Lan Settings

Onvif Stream Settings

Rtsp Stream Settings

PTZ configuration

User&device manage

Basic Network Settings

Obtain IP from DHCP Server	☐
IP Addr	192.168.1.172
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server1	8.8.8.8
DNS Server2	202.96.134.33
Http Port	81

Set up

Refresh

Wireless Setting



- 1).Click , access the “Wireless” settings
- 2).Search the WIFI signals and choose the SSID you want
- 3).Make sure all the parameters are the same as your router, input the WIFI network key.
- 5).Click “check”, after 30seconds,one notification will show you if the WIFI settings succeed
- 6)If succeed, just go back to select “Apply”, then disconnect the network cable

 **Note:** If the camera IP Address can not be found on the search tool, please connect the internet cable again to check the WIFI settings

Device basic information

Alarm Service Settings

Network configuration

Basic Network Settings

Wireless Lan Settings

Onvif Stream Settings

Rtsp Stream Settings

PTZ configuration

User&device manage

Wireless Network List

ID	SSID	MAC	
1	CAM	00:0E:00:07:28:08	
2	1104	78:D3:8D:C7:DD:31	
3		90:94:E4:CD:03:DC	
4	TP-LINK_26D6	8C:A6:DF:4E:26:D6	
5	wanscam_ipcam	D0:C7:C0:E0:93:9C	
6		00:1E:10:50:51:08	
7	ansinwifi-2.4G	C8:EE:A6:1C:F9:A3	
8	LSGD111	C2:61:18:07:EB:7E	
9	xinghuan	A8:57:4E:9B:8F:AC	
10	CAM043678	00:0E:00:02:62:61	
11	CAM	00:0E:00:07:28:92	
12	zhou20121209	C0:61:18:B8:B8:6C	

Scan

Using Wireless Lan☒

SSID

Network Type

Authentcation

Share Key

Set upRefresh

Checking the WIFI signal connection situation

The device is rebooting. Don't shutdown it's power. Please waiting ... 59

13.Rtsp&Onvif

1)Support onvif function and Rtsp function

Device basic information

Alarm Service Settings

Network configuration

Basic Network Settings

Wireless Lan Settings

Onvif Stream Settings

Rtsp Stream Settings

PTZ configuration

User&device manage

Onvif Stream Settings

Onvifenable	open ▾

Set up Refresh

Device basic information

Alarm Service Settings

Network configuration

Basic Network Settings

Wireless Lan Settings

Onvif Stream Settings

Rtsp Stream Settings

PTZ configuration

User&device manage

Rtsp Stream Settings

Rtspport	10554
Rtspenable	open ▾

Set up Refresh

14.PTZ setting

Through setting to set some PTZ function

Device basic information

Alarm Service Settings

Network configuration

PTZ configuration

PTZ Settings

User&device manage

PTZ Settings

Singal lamp	open ▾
against pre-bit	☐
Call Preset on boot	1 ▾
PTZ Speed	Med ▾
Cruise Views	Always ▾

Set up Refresh

15. User Setting & Multi-Device Setting

1) Modification of the user password

Users Settings		
	User	Password
Visitor		
Operator		
Administrator	admin	

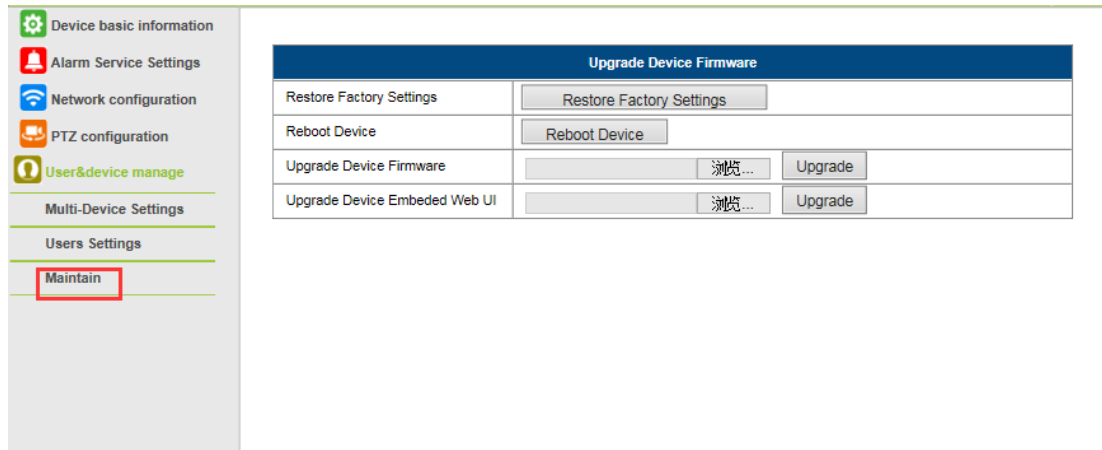
- 2) Refresh the device in LAN search to find add another camera
- 3) Click on “the 2nd device” or any other device
- 4) Click on the LAN equipment added in the search, enter the user name and password
- 5) Click on “Submit”

Multi-Device Settings	
Device List in Lan	IPCAM(192.168.1.111) IPCAM(192.168.1.167) WIFICAM(192.168.1.172) Refresh
The 1st Device	This Device
The 2nd Device	None
The 3rd Device	None
The 4th Device	None
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None

attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.

16.Upgrade Device Firmware

- 2). With this option you may reboot the camera, restore it to the factory settings, and upgrade the system.



17.Access By Mobile

E-View7 App Installation

A. For IOS (iPhone/iPad),download App “E-view7” in App Store;

For Android phones, download App “E-view7” in Google Play, our official website or you can get it from CD Path:”JW & HW Series”-”Mobile App”.

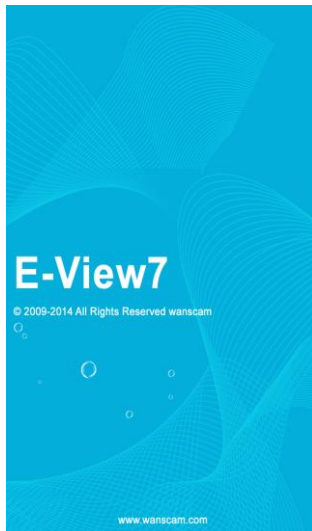
B. Also support scan the App QR-code in the user manual to download directly.

Mobile View

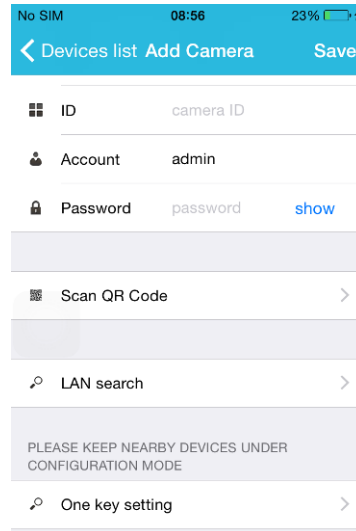


A.Run the App ,please refer to picture 1

B.Add the Camera,please refer to picture 2



1.



2.

Three methods to add IP camera:

Method 1: Input the P2P ID, **User name**, **Password** of your camera manually. Then click **“Save”**

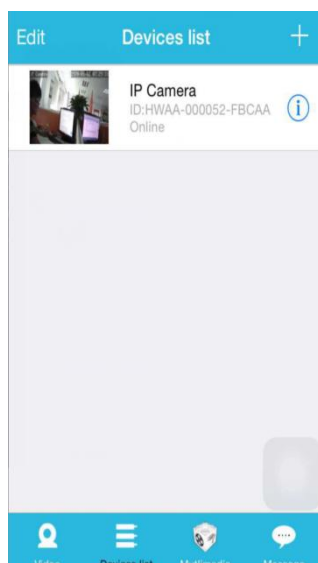
Method 2: Scan the QR code: Click the **“Scan QR code”** button, at the bottom of the camera, there is a label of QR Code, then scan the QR code with your smart phone, it will show the ID, input the user name and password, then click **“Save”**

Method 3: Click **“Search”**, then you will get the local camera list in your phone. Choose the camera which you want to view, input the user name and password, then click **“Save”**

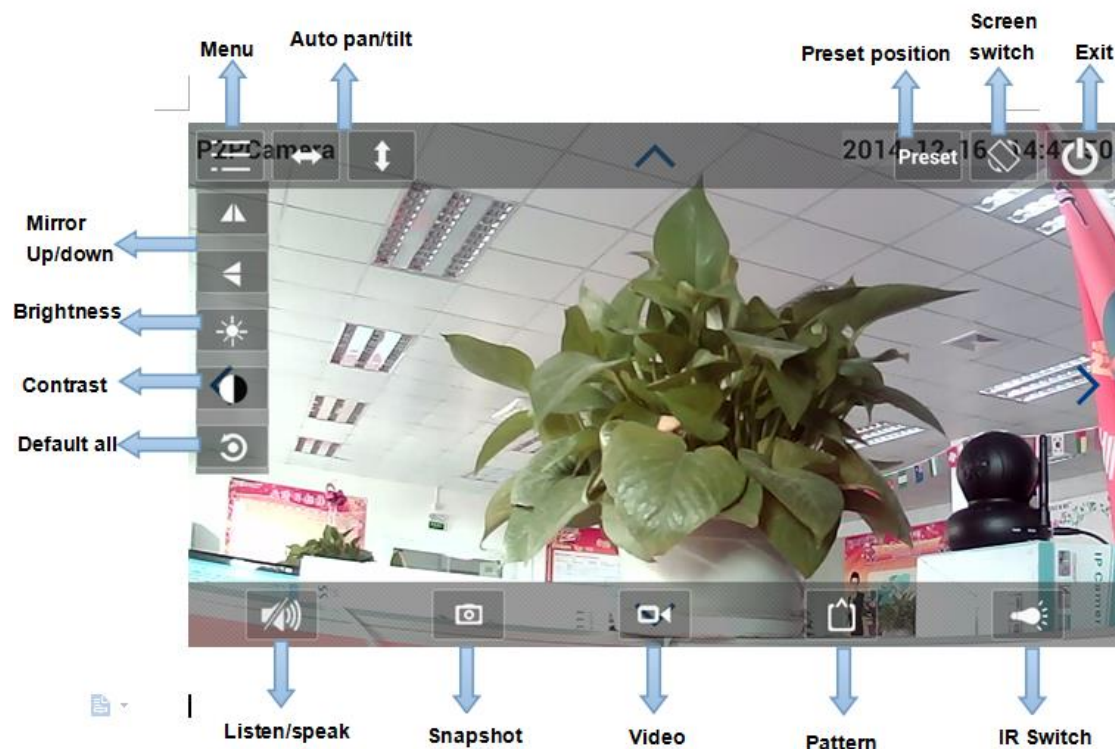
Method 4: Click **“One key setting”**, enter the correct SSID and Password, Click **“start Configuration”**

The operation interface:

A. Device List



B.Live video



7.FAQ :

A.Forget the password

1)Reset your camera, you should press the RESET button for 10 seconds when the power is on(for indoor camera,it's on the bottom of the camera, for outdoor camera , the white reset button is at the end of the power cable).

2)Finishing reset, the camera will restore to factory settings, the user name is"admin"and password is none.

B.No video shown on browser only black screen

 Note:If there is still no live video after run OCX ActiveX,please try to enable the ActiveX options of IE security settings, please do the follow steps:

1.Close the firewall of your computer.

2.Change the ActiveX settings,“IE” browser > “Tool” > “Internet Options” > “Security”>

“Custom Level” > “ActiveX control and Plug-ins”,all the ActiveX options set to be

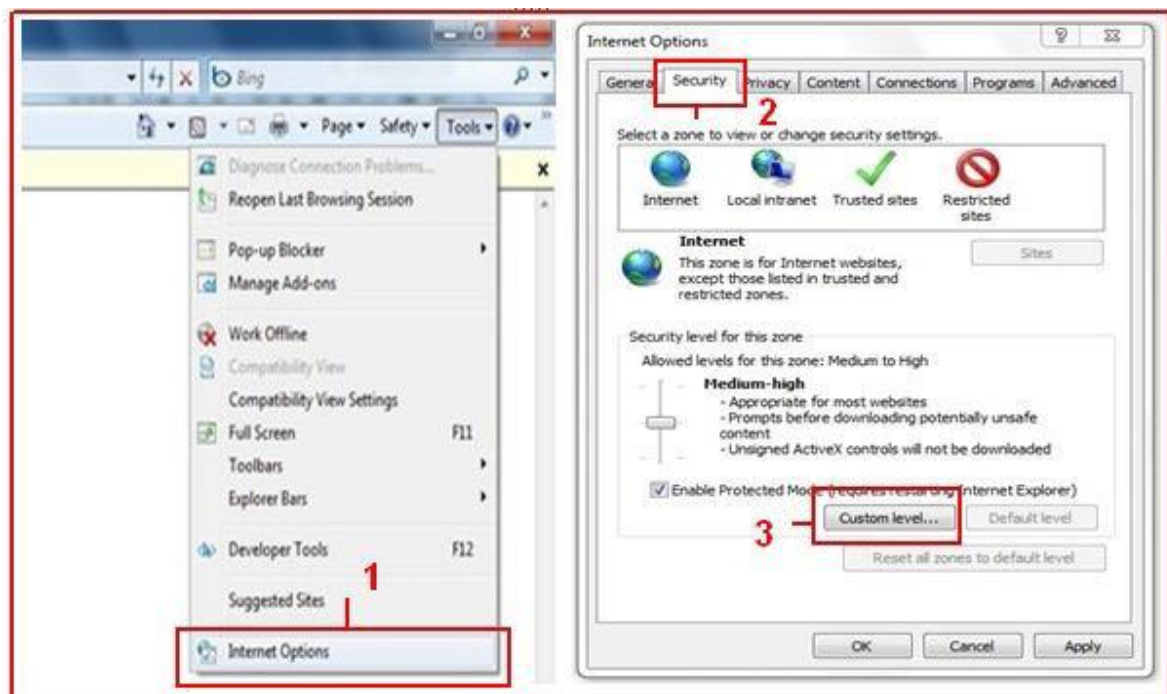
“Enable”:

Especially:

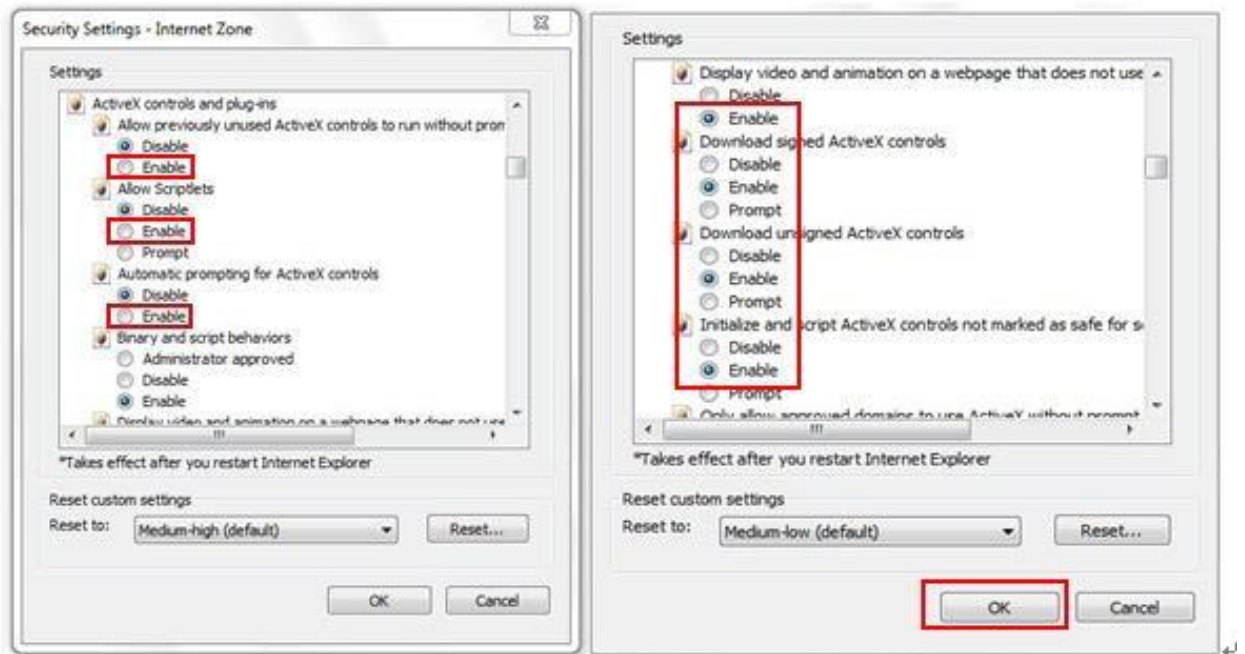
Enable:Download unsigned ActiveX controls

Enable:Initialize and script ActiveX controls not marked as safe

Enable:Run ActiveX controls and plug-ins



a.



b.

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.