

IP Kamera 9070-IRW

User Manual



Release Date: 2010/7/22
Manual Version: V1.00
Firmware Version : V1.2.1.4plus

Warning: Any changes made to this equipment without permission may cause damages to the device!

IMPORTANT NOTICE

1. IP Kamera 9070-IRW was designed for outdoor/ indoor.
2. Please use the power adapter provided by the dealer, the manufacturer is not responsible for the possible damage from using power adapters.
4. Do not shake the IP Kamera 9070-IRW in any fashion
5. Please contact the dealer if IP Kamera 9070-IRW is not working properly.

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1.) Welcome



Introduction

The IP Kamera 9070-IRW provides reliable, high quality solution to IP Kameras. Its distinctive 802.11N , 720P HD quality picture, Tri-mode video capability, built in SD memory storage, RTSP broadcasting capability, internal microphone and many more functions makes this small device very powerful and unique. The built in web server of the IP Kamera 9070-IRW will allow the IP Kamera to be viewed from any remote locations around the world while bringing ease of mind. Furthermore, with CNT technology the 9070-IR is easy to setup & use, simply just plug and play.



Minimum System Requirements

CPU Minimum Requirements

- Intel(R), Pentium(R), DUAL Core (D), CPU 3.0GHz or equivalent
- Operating Systems: WINDOWS Operating Systems (IE5.0+SPI)
- 512 MB system memory or above
- Video Card: 3D hardware accelerator card required – 100% DirectX 9.0c compatible
- 10/100 Ethernet switch/hub
- Sound Card: DirectX 9.0c compatible sound card
- Ethernet network port/card
- Network cable
- Internet (For remote access) or Ethernet Network (Internal Network use) with some type of Internet connection, (i.e. ADSL, Cable, Dial up or any other forms of Internet service)

Software

- VLC media player 0.8.6b or above.
- Windows XP Service Pack 2 or above.
- Resolution of screen setting: 1280x960 or higher for the display of 720P

2.) Product Overview

Features

1. Tri-Mode Camera (MPG4-1/MPEG4-2/M-Jpeg)
2. Wireless 802.11N
3. Advance Motion detection trigger AVI /Jpeg save on FTP / SD card or Email
4. 3 layers (Admin, Operator, and User) Password protected
5. Resolution from CIF 352x192 up to **HD 1280x720P**
6. Supports NTP protocol to get correct time schedule.
7. Water resistance Design
8. Supports HTTP CGI command set. Easy for system integration
9. IP Service Search utility, to find the IP Kamera on internet with ease
10. Watchdog / Event log design
11. Adjustable frame-rate, bit-rate, rate-control type, quality factor for best image quality and speed.
12. Supports date and time marking on the captured video, and also inserted streamed data.
13. Supports adjustable backlight, brightness, contrast, saturation & sharpness
14. TV Output capabilities
15. Automatic alarm recording buffer & Automatic Tune up functionality
16. CNT Technology – Just Plug and Play no need to port forward
17. EPTZ – Electronic Pan, Tilt, and Zoom
18. SD Memory Storage – Add convenience and storage
19. Scheduler recording capabilities
20. Email Capabilities & 2GB Embedded SD Memory
21. EZ Blog and My Web Technology
22. Supports: HTTP Web Server (HTTP), SSL, FTP client, SMTP client, NTP client, DHCP client, UPnP client, RTSP over UDP, RTP

Specification

Casing: Reinforced Aluminum

Case Color: Pearl White

Weight with outer case: 743.0 g

Dimensions (W x L x H): 8.5cm x 13cm x 10cm

Dimensions with outer case (W x L x H): 8.6cm x 17.5cm x 11cm

Operating Conditions: 0-80°C

Storage Conditions: Humidity 20 – 80% RH

Power: AC Adaptor

Input: 100-250Vac /47-63Hz,

Output: 12Vdc/1A Max: 12W

Package Contents	
1.) 9070-IRW Unit x 1 with Lid	
3.) 9070-IRW Installation CD	
4.) AC Adaptor	<p>(AC adaptor will be included and will correspond to the countries power standards)</p> <p>Specs:</p> <p>Input: 100-250Vac /47-63Hz, 1A Output: 12Vdc/1A Max: 12W</p>
5.) Camera Mounting Bracket	
6.) Wireless N Antenna Bar	

3.) Interface Description

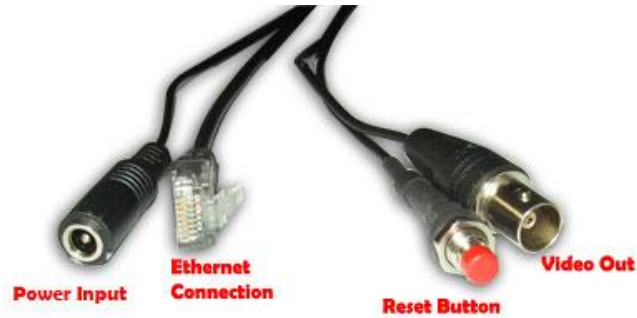
Rear View & Cable Description

Rear View:

Cable and Antenna hole for Wireless



Cables:



DC 12 V Power Input:	Plugs in the Power Adapter to the DC 12V Card
RJ45 Ethernet:	Plug in the RJ45 Ethernet cable to the Ethernet
Reset Button:	Reset to Manufacturer Default: Hold Reset button for 5-10 Seconds and the device will reset to manufacturer default.
Video Out:	The Video out requires a BNC connector to output video to a different source.
Built In SD Card	Built in 512MB SD Memory Card.

4.) Hardware Setup

*Before setup the device make sure of the following:

- 1.) Make sure that all the package contents are all included
if anything is missing please contact the store or your distributor.
- 2.) Make sure the power adaptor is the correct specification.
- 3.) Make sure that all the cables are working correctly

Internet Accessible Setup

The internet connection can be setup in two main ways so that the 9070-IRW can be accessed through the internet

Router / Firewall Setup

Using a Router/Firewall to connect each device to the internet

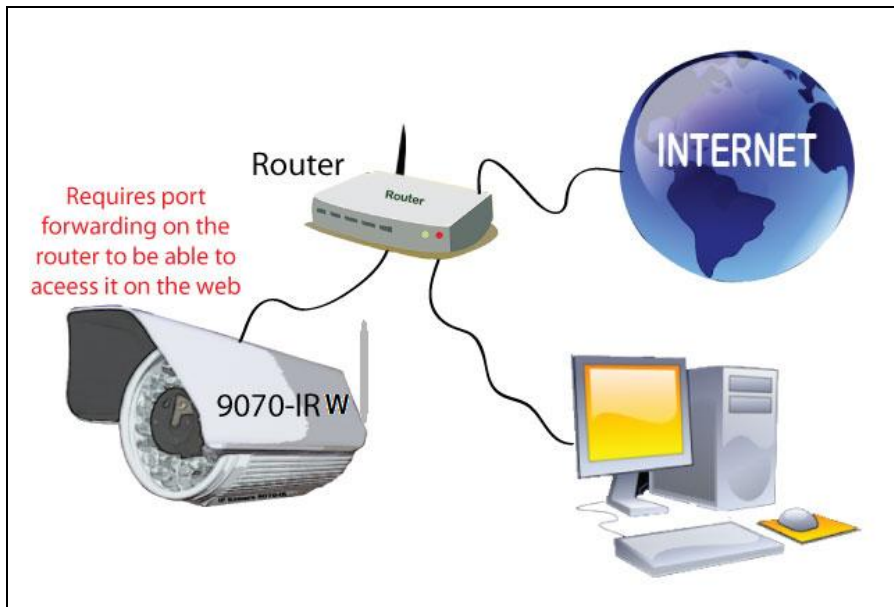
Note: The device needs to be port forwarded on the router so that it can be accessed by the internet.

For example

9070-IRW IP Address: 192.168.1.882

9070-IRW Port: 9070

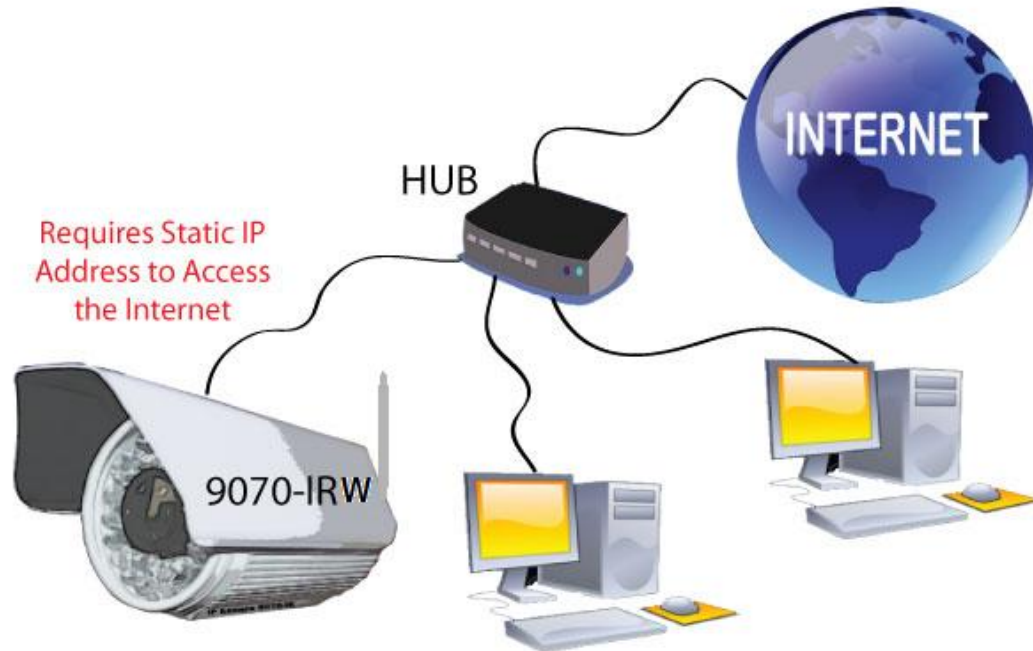
On the router that is being used port forwarded (port triggered) IP Address 192.168.1.882 and port 9070. For this section you may be required to refer the user manual for the router due to the fact that each router has a different way of setting up the device.



Note: Please refer to page: 43 on how to use CNT (Cross Network Technology). With CNT no port forwarding is required to view the camera. But for normal functionality please use the web browser to view the camera.

Static IP Setup

Static IP Address provided by the ISP.



In this case, the 9070-IRW is being connected to the internet through a hub, which is different from a router. The hub does not provide DHCP, and therefore would require that this setup have a static IP Address that is provided by the ISP.

Contact the ISP to find out the static IP address so that your device can be accessed through the internet. Once a Static IP has been assigned the device will be able to automatically go onto the internet.

Connecting the Device

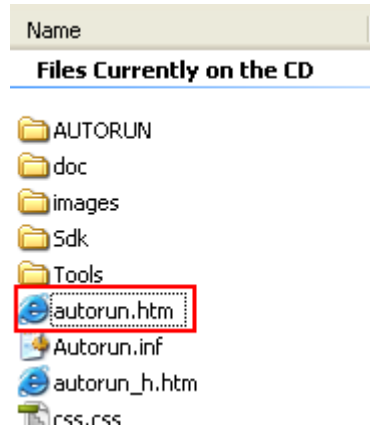
- 1.) Connect the IP Kamera 9070 to a HUB or Router with a RJ45 network cable.
- 2.) Connect the HUB or Router to the internet (May through ADSL/XDSL modem).
- 3.) Connect the power adapter to the DC 5V port of IP Kamera 9070.

5.) Software Setup

The software for the device is located on the **Media Link-IP Family CD** that came with the device. IP Kamera Pack is located on the main page of the CD. Please follow the directions carefully and install the necessary files

Software

- 1.) First place the **Media Link-IP Family CD** that came with your device into your CD/DVD Rom drive. The CD should auto run but if it does not go to the CD/DVD Rom drive and select the file "autorun.html".



- 2.) Select the IP Kamera section and pick the IP Kamera and Model that you are using.





- 3.) Download the following software and save them to the appropriate locations.
 - a. **IP Edit** - Device search tool which allows you to modify IP settings, find your on the local network and IP Service.
 - b. **Surf 16 CH** – 16 Channel DVR, Monitoring, & Recording Software. Views up to 16 channels on one screen.
 - c. **Surf Pop** – Surf Pop is a new interactive IP Kamera monitoring software
- 4.) Once installation is complete please double click the **IP Edit** to configure and search for your device.

Installing VLC Codec

The files that are recorded by the 9070 IRW requires this codec so that you are able to view the view. Download the latest version of the VLC codec and install it into your computer. You can find the latest version of the codec from here

<http://www.videolan.org/>

IP Edit

IP Edit is a search tool designed to setup and access the IP Kamera 9070 IRW.

IP Service is an additional feature which searches for the device easily without having to remember long complicated IP addresses. Instead, this technology allows the user find his or her device through the internet just by device name.

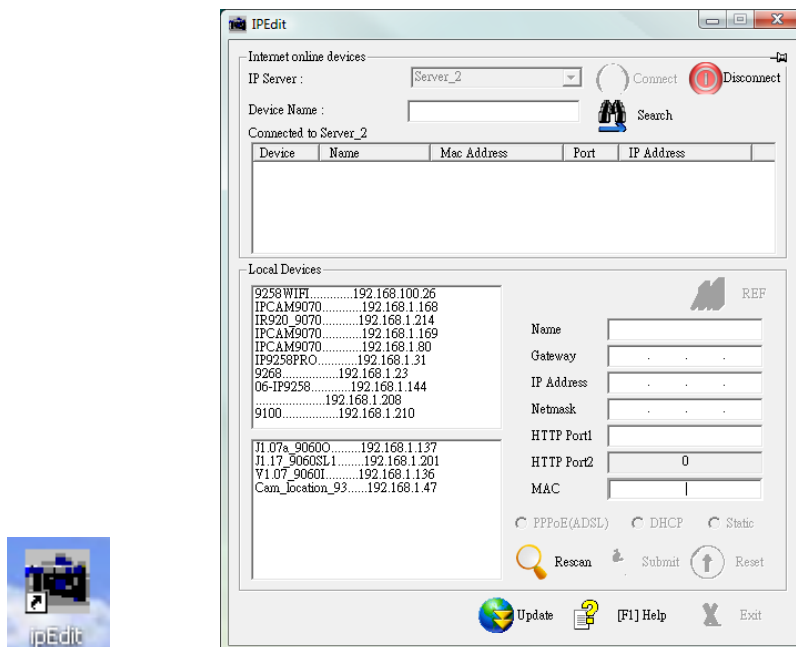
Note: Please allow the IP Kamera 9070 IRW 1 to load before using IPEdit.

Default IP: 192.168.1.168 (When 9070 IRW is connected to PC directly)

Default Login: Admin

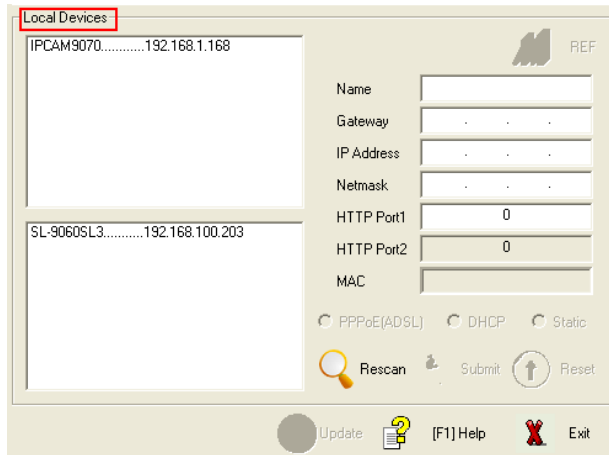
Default Password: 12345678

- 1.) Double click on the IPedit icon to run the program.



- 2.) Open IPEdit and any device in the same network should automatically be detected and listed in the **local devices** sections.

Note: If the device is not showing up, please hit the rescan button and wait about 1 minute



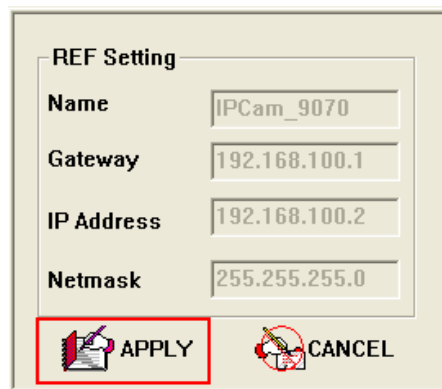
Setup the Device:

All devices will need to be on the same network if not the device cannot be accessed and will not be detected.

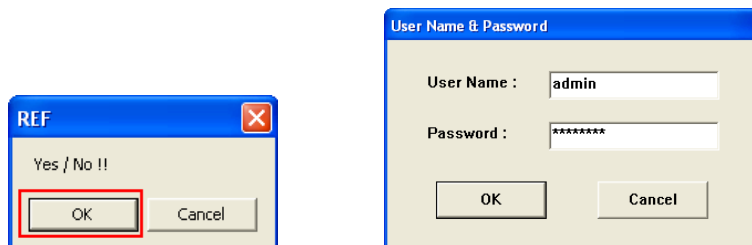
Quick Easy Setup (Recommend for Beginner Users)




- 1.) Click on the REF button, and wait a few seconds. IP Edit will automatically detect the network settings and setup the device.
- 2.) Once settings have been detected hit the apply button to apply the new settings.



- 3.) Hit yes to confirm and Enter the login and password for the Device to Approve changes



- 4.) Then hit the rescan button on IP Edit to confirm the changes have been made.


 REF

Name	IPCam_9070
Gateway	192 . 168 . 100 . 1
IP Address	192 . 168 . 100 . 2
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:90:70:66:66:66


Custom Setup (Advance Users)

- 1.) Highlight the device on the local devices section and on the right side of IP Edit all network information on the device will be displayed.

If the device is not on the same network a Red Exclamation mark  will appear in the IP Network information section

 REF

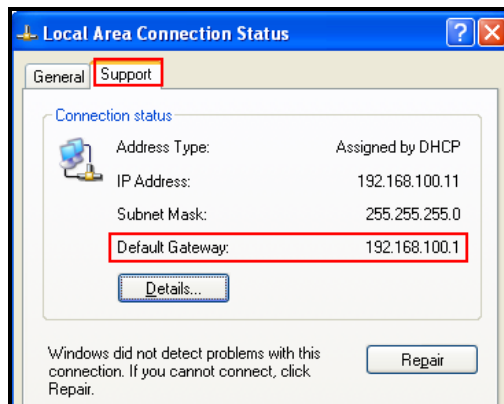
Input Ref Button

Name	IPCam_9070
Gateway	192 . 178 . 100 . 1
IP Address	192 . 178 . 100 . 2 
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:90:70:66:66:66

☐ PPPoE(ADSL)
 ☐ DHCP
 ☒ Static

- 2.) To setup the device, you will need type in the correct **Gateway** and **IP Address**.

The Gateway Address: The gateway address can be obtained in Windows under the network connections page



Local Area Connection Status

General **Support**

Connection status

Address Type: Assigned by DHCP

IP Address: 192.168.100.11

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.100.1

Details...

Windows did not detect problems with this connection. If you cannot connect, click Repair.

Repair

IP Address: Make sure the first 3 sections of the IP Address matches the gateway address.
 Example: Gateway Address – 192.168.1.1 IP Address – 192.168.1.xxx

- 3.) Once the Default Gateway information has been obtained, enter the correct information into IP Edit and hit the submit button.

The screenshot shows the IP Edit software interface. At the top, there is a table listing devices with their names, MAC addresses, ports, and IP addresses. Below this, the 'Local Devices' section contains two lists of devices. The 'IPCAM9070' device is highlighted in blue. To the right, the configuration fields for the selected device are shown. The 'Gateway' field is set to '192 . 168 . 1 . 1' and the 'IP Address' field is set to '192 . 168 . 1 . 80'. Both fields are highlighted with a red box. Below these fields are buttons for 'Rescan', 'Submit', and 'Reset'. The 'Submit' button is also highlighted with a red box. At the bottom of the window, there are icons for 'Update', '[F1] Help', and 'Exit'.

Device	Name	Mac Address	Port	IP Address
9070-...	maxhome9070	009070000017	8088	123.252.51.9
9070-...	IR920_9070	009070000014	80	61.229.48.100
9070-...	cloud9070	009070000028	80	118.169.132.237
9070-...	Winona9070	009070000001	80	218.169.107.66

Local Devices

9258WIFI.....	192.168.1.147
IR920_9070.....	192.168.1.214
IPCAM9070.....	192.168.1.80
06-IP9258.....	192.168.1.144
IP9258PRO.....	192.168.1.31
9100.....	192.168.1.210
.....	192.168.1.218

J1.07a_90600.....	192.168.1.137
Cam_location_93.....	192.168.1.47
V1.07_9060I.....	192.168.1.136
J1.17_9060SL1.....	192.168.1.201

Input Ref Button REF

Name IPCAM9070

Gateway 192 . 168 . 1 . 1

IP Address 192 . 168 . 1 . 80

Netmask 255 . 255 . 255 . 0

HTTP Port1 80

HTTP Port2 0

MAC 00:90:70:a1:a2:a3

☐ PPPoE(ADSL) ☐ DHCP ☒ Static



Rescan Submit Reset

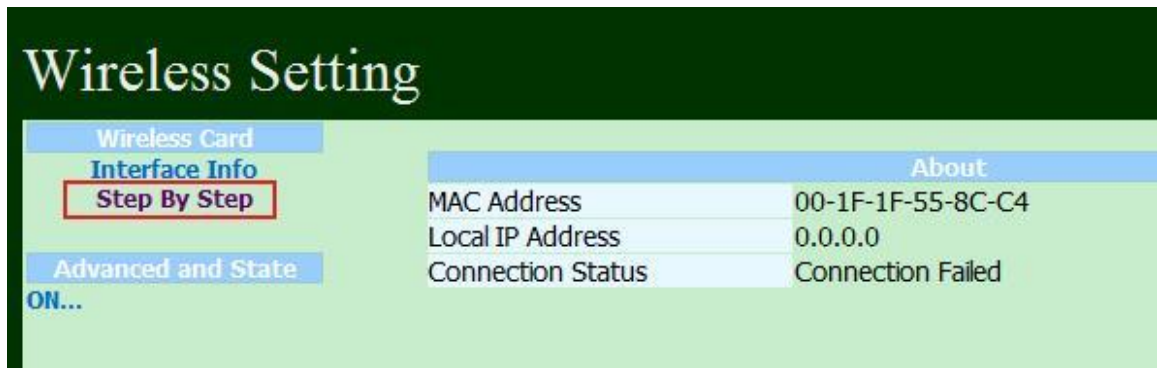
Update [F1] Help Exit


- 4.) Then hit the rescan button on IP Edit to confirm the changes have been made.

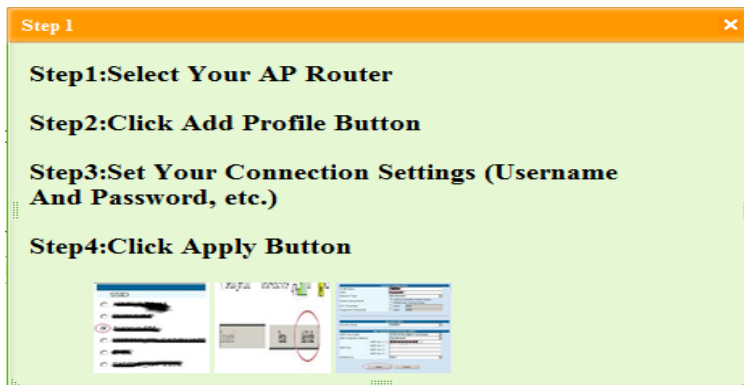
Setting up Wireless Settings

Step by Step:

- 1.) After log in web page, please go to the network  settings on the bottom and select Wireless. A new window should pop up with the wireless settings .
- 2.) Select the Step by Step option on the wireless screen.



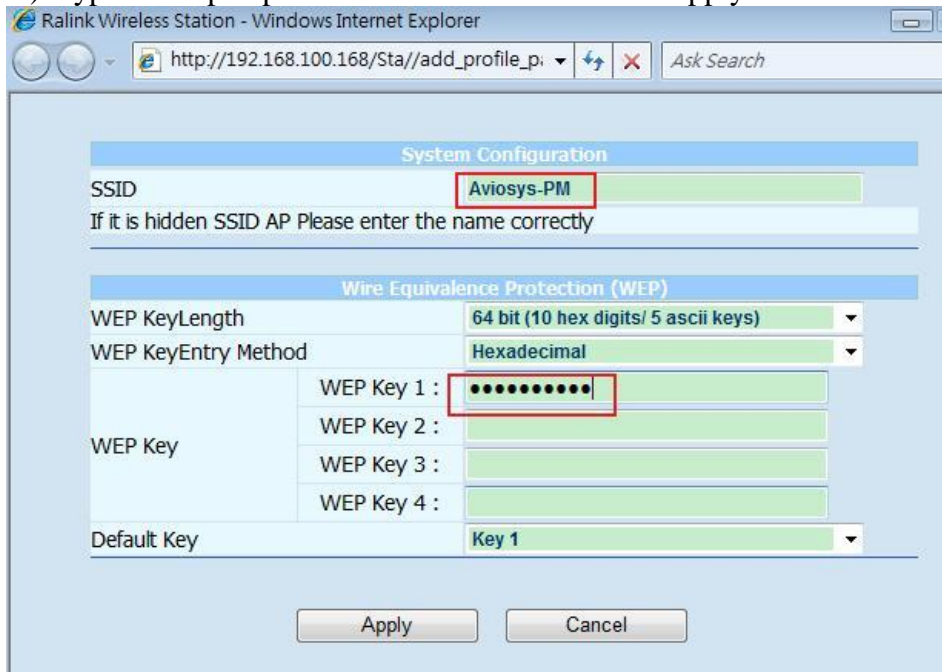
- 3.) Click on the  for more information on how to setup the device.



- 4.) Pick the router that you are using, then hit the add profile button



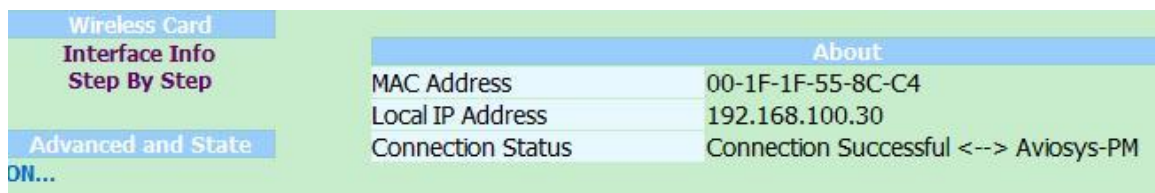
5.) Type in the passphrase for the router and hit the apply button.



6.) Wait about 60 seconds for device to connect.

Connecting.....About 60 seconds....

7.) Then check to see for the connection successful under the connection status and the device is good to go.



- 8.) Unplug the RJ45 cable of the device and search on IPedit for the new wireless settings. You will see a (W) next to your device in IPedit which means wireless is activated. If the RJ45 cable is not disconnect you will see two IP Address on the device.

Local Devices	
IPCAM9070.....	192.168.100.168
IPCAM9070 (w).....	192.168.100.2
.....	192.168.100.140
IP Power 9268.....	192.168.1.192

Advance Setup:

Click on the On Link under advance section

The screenshot shows the 'Wireless Setting' interface. On the left, under the 'Advanced and State' section, the 'ON...' link is highlighted with a red box. On the right, the 'About' section displays the following information:

About	
MAC Address	00-1F-1F-55-8C-C4
Local IP Address	0.0.0.0
Connection Status	Connection Failed

Click on the Site Survey Link then select the wireless internet network that you would like to connect to and hit the add profile button to add a new profile

The screenshot shows the 'Wireless Setting' interface with the 'Site Survey' table. The 'BLW-54MR' network is selected. The table contains the following data:

SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
Aviosys-PM	00-16-01-27-8C-B1	47%	7	WEP	UnKnown	Infrastructure
ASUS_RT-N11	00-1F-C6-CD-B2-A0	26%	1	AES	WPA2	Infrastructure
BLW-54MR	00-90-CC-DF-9F-BC	18%	2	WEP	UnKnown	Infrastructure
EDIMAX_BR-6574N	00-1F-1F-65-D1-08	26%	5	WEP	UnKnown	Infrastructure
EDIMAX_BR-6424N-WISP	00-1F-1F-47-89-08	31%	5	AES	WPA2-PSK	Infrastructure
SAPIDO_GR-1102	00-D0-41-BC-70-54	18%	10	AES	WPA2-PSK	Infrastructure
ZyXEL	40-4A-03-01-A5-62	37%	11	WEP	UnKnown	Infrastructure

At the bottom, the 'Add Profile' button is highlighted with a red box. The status bar shows 'Connected <--> Aviosys-PM' and a 'Rescan' button.

A new window pop and you will be required to enter the necessary network information including the passphrase or password for the wireless internet.

Ralink Wireless Station - Windows Internet Explorer

http://192.168.100.168/Sta//add_profile_pi

System Configuration

SSID: **BLW-54MR**

If it is hidden SSID AP Please enter the name correctly

Wire Equivalence Protection (WEP)

WEP KeyLength: 64 bit (10 hex digits/ 5 ascii keys)

WEP KeyEntry Method: Hexadecimal

WEP Key:

- WEP Key 1 :
- WEP Key 2 :
- WEP Key 3 :
- WEP Key 4 :

Default Key: Key 1

Apply Cancel

Then hit apply to save all settings and wait about 60 seconds for device to connect.

Connecting.....About 60 seconds....

Wireless Setting

- Wireless Card
- Interface Info
- Step By Step
- Advanced and State
- ON...

About	
MAC Address	00-1F-1F-55-8C-C4
Local IP Address	192.168.1.8
Connection Status	Connection Successful <--> BLW-54MR

Then go back to the Main Wireless page and click on the on link under Advance for more

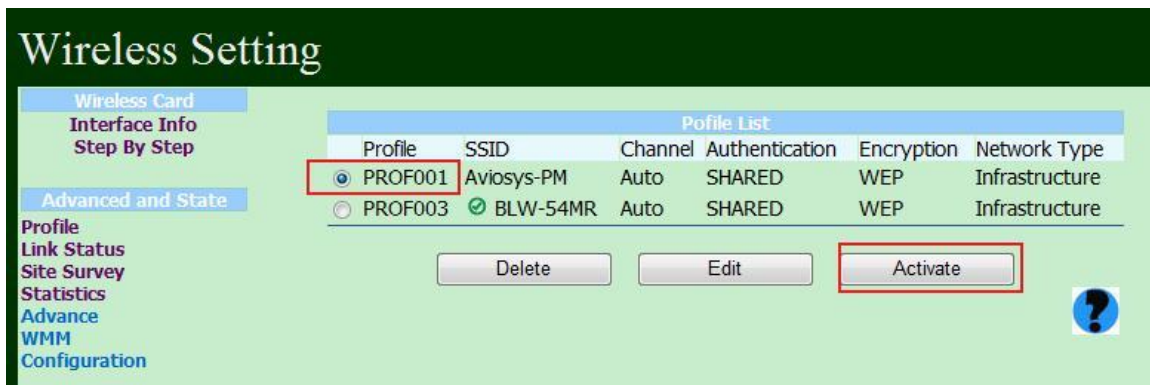
Advanced and State

ON...

Select the Profile link to see the profiles that you have added to the device.

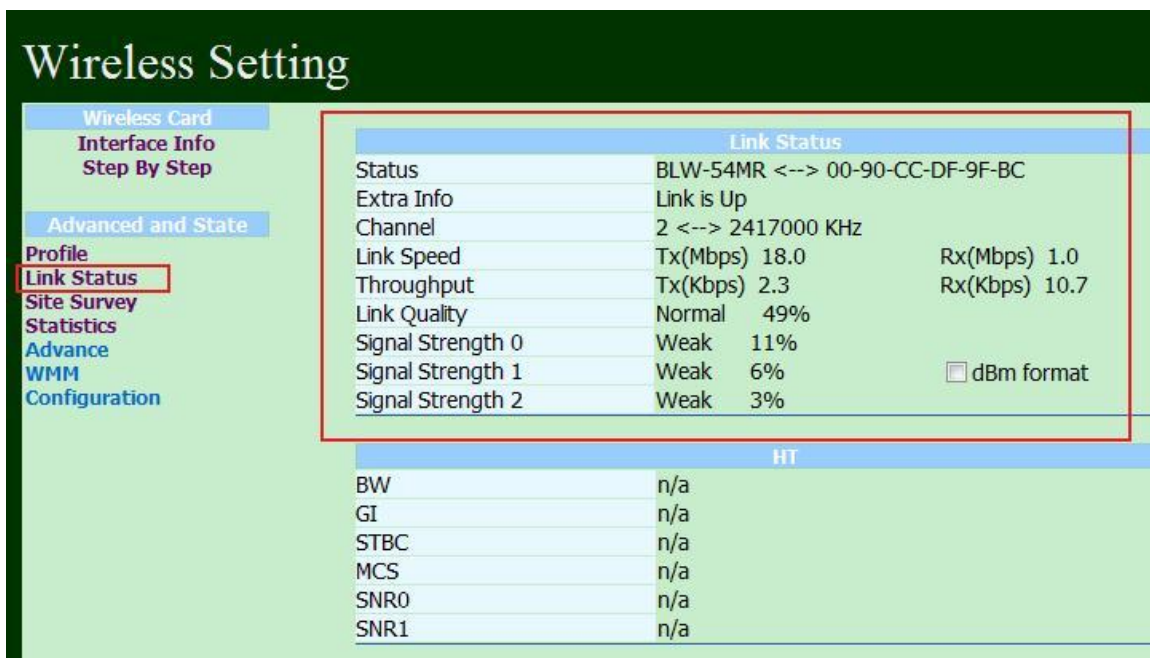


Click on your newly added profile and hit the activate button to start up the Wireless settings.



Then click on Link Status to make sure that your device is connected to the wireless network.

Note: If the device is connected it will show some information in the Link Status page.



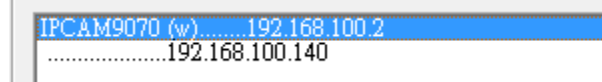
Now the device is connected to the wireless network.

Unplug the Ethernet cable to the device.

Then unplug the power cable to the device for about 15 seconds.

Then plug in the power to the device and give the device about 1 minute to start up. Then with IP Edit search for the new wireless device. If the device is using wireless, you should see a (w) next to the name of your device.

See example below:



Note: Remember to Port forward the device with the New Wireless IP Address so that you can connect to the device from via outside the network.

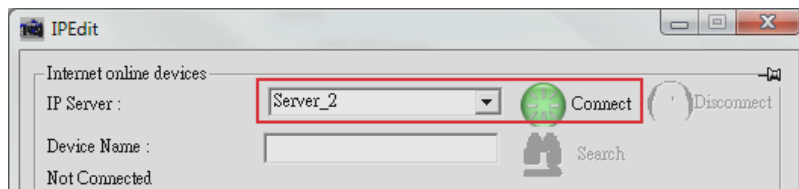
IP Service

How to use IP Service on IP Edit:

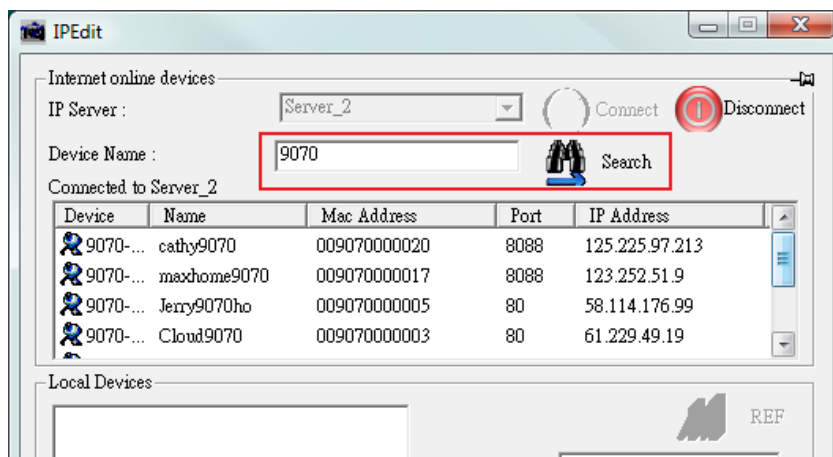
IP service allows the user to directly connect to his / her device through the internet without having to remember long confusing IP Address. Instead you only need to remember the name of the device that the you have selected. Then the user can connect to IP Service, type in the device name, and connect directly to the device.

Note: IP Kamera 9070-IRW requires you to select Server 2 on IP Service

- 1.) Open IP Edit, the device will show up in the Local Device Section. If you have not selected a name for the device, please refer to the section on the manual labeled: "Naming your device".
- 2.) To start IP Service, Press the green connect button on the top of IP Edit.



- 3.) Once you have been connected search for your device by typing in at least the first 3 letters that you named your device with. Then hit the search button.



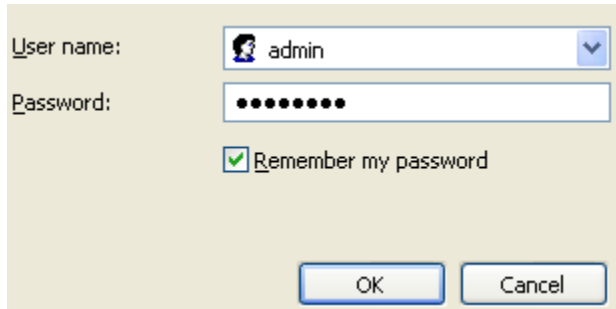
4.) Double click on your device and an Internet Explorer window will appear connecting directly to your device.

Note: It is crucial to have the IP Address of the device port forwarded from the router that you are using so you can connect to your device from anywhere. Please refer to your routers user manual on how to port forward your device.

6.) Web Interface

Connecting to the 9070-IRW

Once the 9070-IRW has been setup correctly, connect to the login page.
An Internet Explorer browser screen pop up with the login screen.



A login form with a light beige background. It contains two input fields: 'User name:' with a dropdown menu showing 'admin' and a blue arrow, and 'Password:' with a masked password field (dots). Below the password field is a checkbox labeled 'Remember my password' which is checked. At the bottom are two buttons: 'OK' and 'Cancel'.

Default IP: 192.168.1.168 (When 9070-IRW is connected to PC directly)

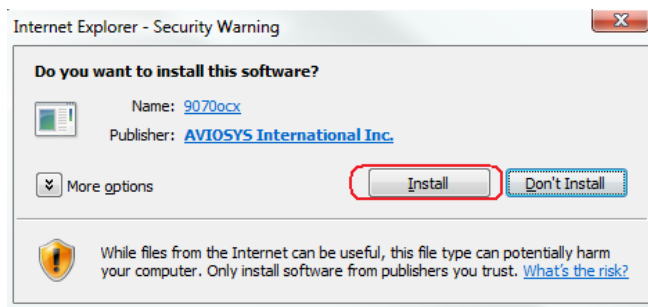
Default Login: Admin

Default Password: 12345678

- 1.) Once you have logged into the device you will be required to install active x controls.

**Please install the ActiveX component
to enjoy the A/V stream.**

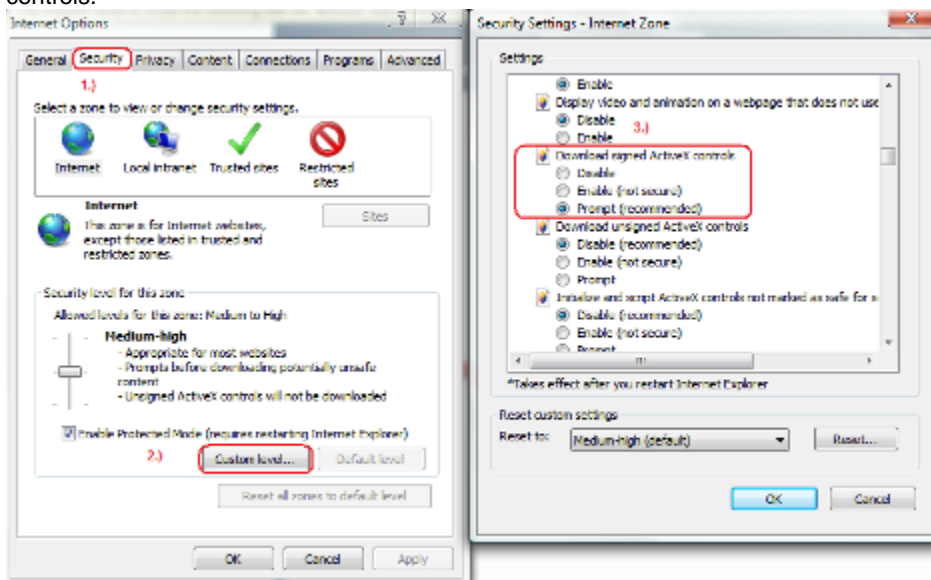
- 2.) Right click on yellow bar and install the activeX controls.
- 3.) Then click the install button and install the active controls.



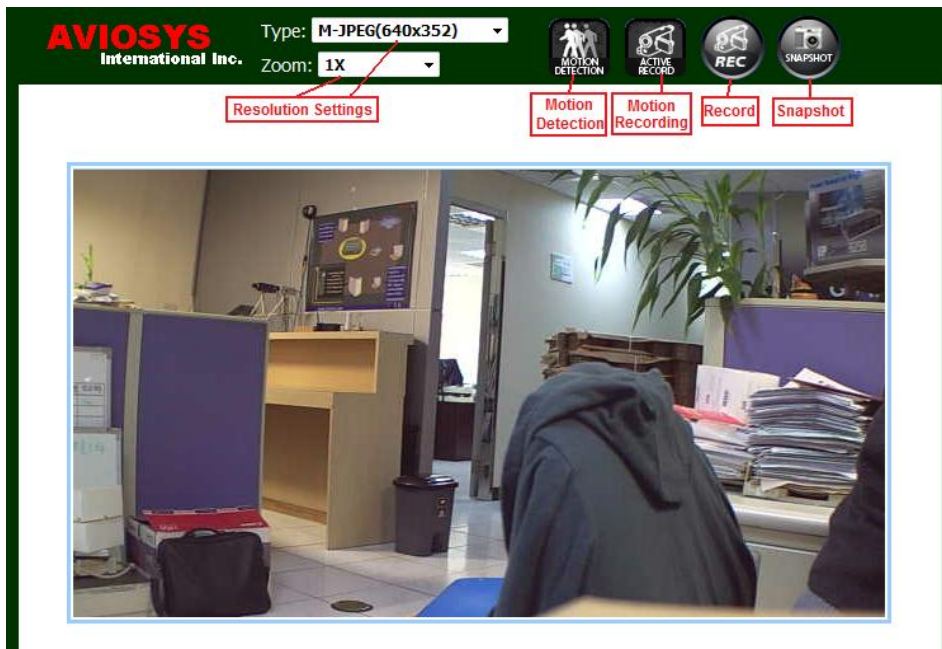
- 4.) Once active X controls have been installed the video feed will show on the screen



Note: If there is no active X controls that are showing up, please go to internet explorer and enable active X controls.



Web Console



The IP Kamera 9070-IRW Control Console starts in the [Live Video](#) Section of the webpage. In this section navigate to the other options and settings of the 9070-IRW

Live Video

Live Video: The Live Video section allows the user to view the camera, change resolution views,

Image

Image: The Image section allows you to edit the image settings, including recording / viewing codec, frame rate, image tuning, brightness, contrast, saturation, and etc.

Network

Network: The network section allows you to change the devices network settings, ftp settings, smtp (email) settings, snmp settings, and IP service settings.

System

System: The system section allows you to change the devices date and time, set time stamp for video, users, audio settings, update, event log.

Application

Application: The application section allows you to change the video recording format, ftp storage settings, SD Card settings,

Media Player

Media Player: The Media player can directly access the files in the built in memory. Each video file & picture can be accessed here and streamed through the internet.

Logout

Logout: After using the 9070, the user can click on the Logout feature to ensure that no one else can see the IP Kamera without a login or password. Please do not forget to log out after each use.

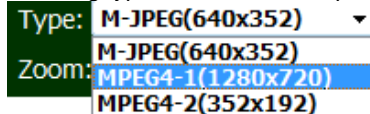
Live Video

The Live video section of the IP Kamera 9070-IRW is where the user can view the video of the device. From here resolution, record onto current pc, take a snapshot, zoom, and detect motion detection settings can be changed.

Type and Zoom

Type:

The type function allows you to set the streaming format for the IP Kamera 9070. You can select from the following type of resolutions depending on the format type you have set in the image settings.

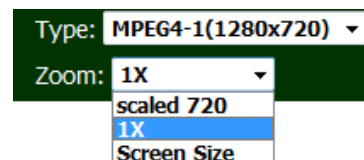


Type: M-JPEG(640x352) ▼
Zoom: M-JPEG(640x352)
MPEG4-1(1280x720)
MPEG4-2(352x192)

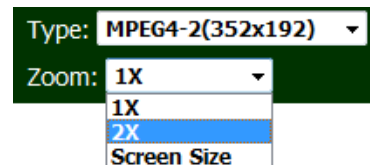
M-JPEG (640x 352)
MPEG4-1 (1280x720)
MPEG4-2 (352x192)

Zoom:

The zoom function allows you to select the screen size of the stream. Depending on the type that you have selected there will be different zooms that will be available.



Type: MPEG4-1(1280x720) ▼
Zoom: 1X ▼
scaled 720
1X
Screen Size



Type: MPEG4-2(352x192) ▼
Zoom: 1X ▼
1X
2X
Screen Size

1X zoom: The 1X zoom is the normal view for each type.

2X zoom: This 2X zoom is 2 times the normal view for that type.

Scaled 720: Is a resolution only available in MPEG-4-1, which sets the picture at 720P.

Screen Size: Will enlarge the image to the whole size of the screen. This function is very useful when trying to display on larger monitors.

Motion Detection

Motion Detection: The motion detection icon will display when motion has been detected. This setting must be activated in the application section

When no motion is detected the motion detection icons will look like the following.



No Motion Detected

But, in the case that motion is detected and recording has started, the icon will look will light up blue.




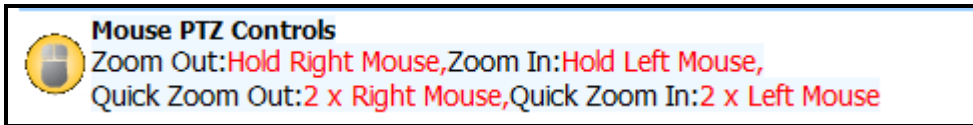
Motion Detected

Mouse EPTZ

Mouse EPTZ

On the live video screen move the mouse cursor to the video and click left or right click to use the Mouse EPTZ functionality. Here you can easily **Zoom in, Zoom Out, Quick Zoom, Quick Zoom Out**.

The instructions will be displayed on the screen when the mouse is moved over the  icon.



To Zoom In: To Zoom into the picture move the mouse cursor over the picture and click and hold the left mouse.

To Zoom Out: To Zoom out of the picture move the mouse cursor over the picture and click and hold the right mouse.

Quick Zoom In: Quick zoom in is used to quickly zoom into the maximum zoom of the picture. To use this function on the picture double click the left mouse.

Quick Zoom Out: Quick zoom out is used to quickly zoom into the maximum zoom of the picture. To use this function on the picture double click the right mouse.

Active Record

Active Record: Active record will show up when the device is actively recording. Active recording functions like motion detection, scheduler, or an alarm will set off this automatic recording.

When active recording is not activated it will look like the picture below



When the active recording function is activated it will light up in red.



Record

Record: The record button on the 9070-IRW when pressed will record the live video feed and save the video into the computer viewing.

To record follow the following steps:

- 1.) Select the recording path that you would like to store the file under in the applications tab in snapshot path.

Snapshot Path		
Snapshot File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>
Recording File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>

- 2.) Click on the record button



- 3.) Once the folder has been selected the device will start to record.



To stop recording click on the red icon and it will return to the original state.

Note: Remember you need VLC codec to play the video files that are recorded

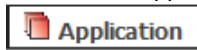
Snapshot

Snapshot: The snapshot function, creates a easy way take pictures of the current view in the IP Kamera 9070-IRW.



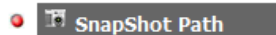
To setup the snapshot destination folder:

- 1.) Click on the Application link on the bottom menu



- 2.) Then select Snapshot path

Setting



- 3.) In here browse for the location where snapshot pictures will be stored. By default the snapshot path will be in C:\9070\

Snapshot Path		
Snapshot File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>
Recording File Location:	<input type="text" value="C:\9070\"/>	<input type="button" value="Get Folder Path"/>

To use the snapshot function:

- 1.) Click on the snapshot button, and you will see the screen flicker black.



- 2.) In explorer go to the selected path and the files will be created there.

Image

The image section allows you to change the Image settings for the device and tune the image of the IP Kamera 9070-IRW

Image Settings

The Image settings section allows you to change the video settings and the Name of the Kamera.

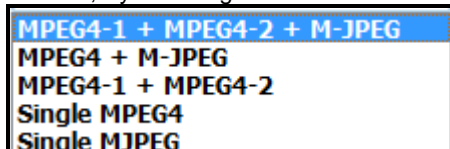
Camera Name:

Select a camera name for the device and then hit submit

Camera Name:

Video Codec:

The Video Codec sections allows you to select different the types of codec you would like to set your IP Kamera, By selecting different resolutions your



Resolution:

In the resolution section you can select from the following options.

Resolution	
(MPEG4+MPEG4+JPEG):	M4:720P,M4:CIF,JPG:352
(MPEG4+M-JPEG):	M4:VGA,JPEG:VGA M4:720P, JPG:720
(MPEG4-1+MPEG4-2) Not supported in Firefox:	M4:720,M4:CIF
(Single MPEG4):	M4:720
(Single MJPEG):	M4:720

Color System:

Select the broadcasting color system that pertains to your country.

NTSC/60Hz








PAL/50Hz

Each country has their TV broadcasting standard, please check with your local service provider to find out if you use a NTSC system or PAL system.

Mirror:

The mirror function allows you to flip the image of the device around. Depending on the direction and the way the camera is mounted you can use this setting to change the angle of the picture. Please see below for more details.

Normal View:

Normal View	Horizontal View	Vertical	Both
			
			

Rate Control:

Select the Bit Rate Control that fits your needs.

CVBR: Constrained Variable Bit Rate

CBR: Constant Bit Rate

Internet Speed:

The Internet Speed settings allow you to choose some preset settings to best fit your current internet speeds. From here you can select from the following options:

Cable / ADSL: Most high speed internet users today use Cable / ADSL as the main internet provider line.

Fiber Optics: High speed fiber optics provides the best solution for outside the network because it is very fast.

Intranet (LAN): When using the IP Kamera from within the network this is the best option.

Custom: This setting allows you to manually input a setting for the Bit Rate, FPS, and picture quality.

M-JPEG Settings: The available Quality settings and FPS for the M-JPEG settings are shown below

M-JPEG Quality Settings
High
Medium
Low

M-JPEG Frame Rate Settings
30 FPS
15 FPS
7.5 FPS
3 FPS
1 FPS

MPEG4-1

Bit Rate: Select a value from 64~8000.

FPS: Select a FPS from 30fps, 15fps, or 7.5fps

MPEG4-2

Bit Rate: Select a value from 64~8000.

FPS: Select a FPS from 15fps or 7.5fps

Note: PTZ is only available in the mode below. When you enable PTZ it will automatically jump into that mode.

Video Codec: MPEG4+JPEG
Resolution: M4:VGA,JPG:VGA


Tune Image

The tune image settings section allows you to control and tune the picture quality of the image. Keep in mind, the quality of the picture will also be affected by the quality of the lens that is being used.

Image Fine Tune

Image Settings

Tune Image



White Balance: auto

Day and Night: day

TV Output: ☐ Enable ☒ Disable

Binning /Skipping mode: binning

BLC: ☒ ON ☐ OFF

Backlight 50.2%

Brightness 50.2%

Contrast 50.2%

Saturation 50.2%

Sharpness 50.2%

Default Submit

White Balance: Select from the following options **auto**, **indoor**, or **outdoor**

Day and Night: Select the mode Day or Night

TV Output: Select the mode **enable or disable** to output to a T.V

Binning / Skipping mode: Binning enables low light-light performance. Select Binning, Skipping, 4x Binning mode (default is Binning)

BLC (Backlight control): Select from one of the options on or off to control the

Backlight: Select a value between (0~100%)

Brightness: Select a value between (0~100%)

Contrast: Select a value between (0~100%)

Saturation: Select a value between (0~100%)

Sharpness: Select a value between (0~100%)

Default
(Default Values)

Default: To Return all values to normal default click on this button.

Note: Make sure you click on the Apply button to save any changes made **Submit**

Network

The Network settings section allows the user to setup their network information for the IP Kamera.

Network

Network

When the network settings have been changed, please restart the web browser and reconnect to the newly configured network information.

☐ Enable DHCP

IP Address: 192 . 168 . 100 . 37

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 100 . 254

DNS Server: 192 . 168 . 1 . 1

HTTP Port: 80 (80 or 1025~65535)

MAC: 009075000037

Submit

Live Video Image Network System Application Media Player Logout

The network section allows you to setup the network information for the IP Kamera 9070.

Enable DHCP: This function will enable the DHCP for the 9070CSWO. If this is enabled the IP Address of the device will be automatically provided by the router of the device.

IP Address: The IP Address will be displayed here. To change the IP Address of the device simply change the values and hit submit.


Subnet Mask: Subnet Mask information. By default it is set to 255.255.255.0

Default Gateway: The default gateway address is the address to connect to the router.

DNS Server: Domain Name System Address

Http Port: Enter the port that you would like the 9070 to connect on.

MAC: The Mac Address or physical address of the device

Note: Make sure you click on the Apply button to save any changes made 

Wireless Settings

The wireless settings section will allow you to setup the wireless feature of the 9070-IRW. Please refer to page 18 or Setting up wireless section for more details.

FTP

The screenshot shows the 'FTP Server Setting' page. On the left is a navigation menu with icons and labels for 'Network', 'Wireless Setting', 'FTP' (highlighted), 'E-mail SMTP', 'SMTP', 'IP Service', and 'RTSP'. The main content area has the title 'FTP Server Setting' and a subtitle 'FTP is a network protocol used to transfer data please setup the correct server setting.' Below this are four input fields: 'FTP Server:' with the value '192.168.1.1', 'Port:' with the value '21', 'User Name:' with the value 'sample', and 'Password:' with a masked password '.....'. A 'File Upload Path:' field contains the value 'default_folder'. At the bottom right is a 'Submit' button.

The FTP section of the IP Kamera 9070 allows you to save video clips

FTP Server: The FTP server address is where the IP Address of the FTP server will be entered.

User Name: Enter the FTP Username

Password: Enter the FTP Password

File Upload Path: Enter the upload path of the FTP Server

SMTP (Outgoing E-mail Server)

The screenshot shows the 'SMTP Server Setting' page. The left navigation menu is identical to the FTP page, with 'E-mail SMTP' highlighted. The main content area has the title 'SMTP Server Setting' and a subtitle 'To use to E-mail function please enter Outgoing Mail Server (SMTP) of your E-mail Address.' There are two checked checkboxes: 'My Server Requires Authentication' and 'This server requires an encrypted connection (SSL)'. Below these are several input fields: 'Account Name:' with 'aviosys', 'Password:' with a masked password, 'SMTP Server:' with '192.168.1.1', 'port:' with '587', 'Receiver Email:' with 'sales@aviosys.com', 'Sender Email:' with 'reciever@aviosys.com', and 'Subject:' with 'IPKamera9070'. A 'Message Body:' text area contains 'alarm mail.' and a note below it states 'Message Body characters cannot be more than 255'. At the bottom are 'Submit' and 'Send Test e-mail' buttons.

Enter the SMTP E-mail server information here. The SMTP section allows the 9070CSWO to send emails out using the SMTP settings.

My Server Requires Authentication: Some servers require SMTP Authentication for security purposes. If your email server requires this option, make sure to have this section checked.

Account Name: Enter then login of the mail account

Password: Enter the password of the E-mail account

Use SSL Connect: If the email server requires SSL (Secure Sockets Layer) this option need

Sender Email: Enter the Sender Email Address

SMTP Server: Enter the SMTP Outgoing mail address

Email Address: Enter the Receiving Email address

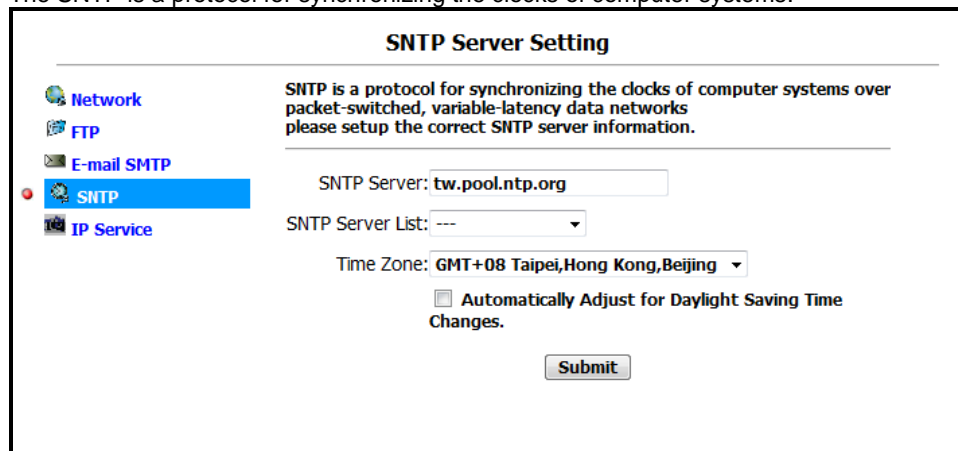
Submit: After all settings have been made. Hit the submit button to save all changes.

Send Test E-Mail: This button will send a test e-mail to the designated account. This way, you can check to make sure that the settings are correct.

Note: If you are having problems sending emails out and the settings are correct. Please check your DNS Server address to make sure you can send email out.

SNTP

The SNTP is a protocol for synchronizing the clocks of computer systems.



The screenshot shows a web form titled "SNTP Server Setting". On the left is a vertical navigation menu with icons and labels: "Network", "FTP", "E-mail SMTP", "SNTP" (which is highlighted in blue), and "IP Service". The main content area has a heading "SNTP Server Setting" and a descriptive paragraph: "SNTP is a protocol for synchronizing the clocks of computer systems over packet-switched, variable-latency data networks please setup the correct SNTP server information." Below this, there are three input fields: "SNTP Server:" with the text "tw.pool.ntp.org" entered, "SNTP Server List:" with a dropdown menu showing "---", and "Time Zone:" with a dropdown menu showing "GMT+08 Taipei,Hong Kong,Beijing". There is a checkbox labeled "Automatically Adjust for Daylight Saving Time Changes" which is currently unchecked. At the bottom right of the form is a "Submit" button.

SNTP Server: Enter the SNTP server address. Below are a list of free public NTP servers.

Europe — europe.pool.ntp.org

Asia — asia.pool.ntp.org

Oceania — oceania.pool.ntp.org

North America — north-america.pool.ntp.org

South America — south-america.pool.ntp.org

Africa — africa.pool.ntp.org

Time Zone: Enter the corresponding time zone

Automatically adjust for daylight saving time: Check this section if you want daylight saving time to be implemented automatically.

IP Service

IP Service

- Network
- Wireless Setting
- FTP
- E-mail SMTP
- SMTP
- IP Service**
- RTSP

IP Service Server Information below

☒ Enable IP Service

IP Service Server : Kamera Server

CNT Server : Kamera Server

Camera Title: IPCAM9070

Country: remark1

City: remark2

MAC: 00907310003f

Note: Use the MAC address value when using CNT

☒ Enable Share

Video Stream

User List:

guest:Viewer

User Name:

Password:

IP service is a added service that provides you a platform so you do not remember a long IP Address. Just enter the name of your device into IP Service and you can find your device.

Note: Port forwarding will be required on your router to connect to the device

In this section you can to turn off/on this service as well as select which server you would like your device on. .

Note: IP Service is set to ON by default. To close this feature, uncheck the enable button.

IP Service Server:

There are 3 IP Service Servers that can be selected from:

Kamera Server

Power and Video Server

Kamera Server

Cloud_Server

Power and Video Server: This is the server where most IP Power products and IP Video server products can be found.

Kamera Server: This is the IP server where most IP Kamera products from Aviosys will be found on.

CNT Server: Cross Network Technology Sever. CNT allows user to connect to their IP Kamera without having to Port Forward to the device.

Kamera Server

Power and Video Server

Kamera Server

Camera Title: This is the name of the device.

Country: The country where the device is located.

City: The city where the device is located.
MAC: Physical address or MAC of the device.

Once you have setup IP Service you can connect to IP Service through software IP Edit Search tool or through www.myIP_Edit.com

Enable Share:

Check this feature to enable video sharing on guest accounts only. Make sure that the guest account has already been created in the user section. Once this section has been made you can come here to verify that Note: This function is for IP Surf Pop software.

Please refer to the IP Surf Pop manual for more information at www.Aviosys.com

RTSP

Real Time Streaming Protocol (RTSP) gives the device another way to stream live video. Using programs that support RTSP, you can broadcast the videos from the 9070 live.

Note: To access the device from outside the network. Please make sure of the following:

9070 should be set to DMZ host,

or mapping router's TCP ports 554 and 8554 to 9070, preferably at the same time mapping UDP port 6970-9999

System

Date and Time

Time stamp

Users

IR Controls

Device Tune Up

Language Setting

Update

Events

The Local Time

Date: 2010/07/29Time: 14:56:12

The Desired Time

☐ Set Manually

Date: 2010 / 07 / 29 (YYYY/MM/DD)

Time: 14 : 54 : 38 (HH:MM:SS)

☐ Synchronize with Computer Time

Date: 2010/07/29Time: 14:53:40

☐ Synchronize with SNTP Server

SNTP Server: tw.pool.ntp.org

Time Zone:
GMT+08 Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore

Date Format: YYYY/MM/DD

Submit

The system section allows you to setup the IP 9070's system configurations. This includes the following

Date and Time

Date and Time

The Local Time
Date: 2010/05/26 Time: 20:15:25

The Desired Time
☐ Set Manually
Date: 2010 / 06 / 09 (YYYY/MM/DD)
Time: 16 : 05 : 40 (HH:MM:SS)
☐ Synchronize with Computer Time
Date: 2010/06/09 Time: 16:21:39
☐ Synchronize with SNTP Server
SNTP Server: tw.pool.ntp.org
Time Zone: GMT+08 Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore
Date Format: YYYY/MM/DD

Submit

Set the date and Time of the device here.

The Local Time: The local time corresponds to the current time of the IP Kamera 9070.

Time Setup: Setup the current time of the device here

- 1.) **Set Manually:** Set the time manually
- 2.) **Synchronize with Computer Time:** Synchronize the time with the current computers time
- 3.) **Synchronize with SNTP:** Synchronize with SNTP

Time Stamp

Date and Time stamp

☒ Enable Date and Time stamp
Date Format: YYYY/MM/DD

Submit

The time stamp adds a time to the live video.

When a recording is made a time stamp will show up with in the video file that is being recorded.

To enable the Time Stamp please check the enable box.

User



Users

User List:

admin:Admin

Delete User

Add/Modify User

User Name:

Password:

Confirm:

Authority: ☒ Admin ☐ Operator ☐ Viewer

Submit

In this section, you can create different user access rights for different types of users.

Authority: Select one of the following options:

Admin: You can operate all functions in Web interface. Also, you can add or delete any user's account.

Operator: You can operate all functions in Web interface except user Add/Delete.

□

Viewer: You can only monitor the Web interface, but cannot operate all function and set parameters.

Night Vision



Night Vision

← ↻

Date and Time

Time stamp

Users

Night Vision

Device Tune Up

Language Setting

Update

Events

Night Vision Controls: ☒ ON ☐ OFF

Note: Night Vision will require a IR illuminator to clearly see in dark areas or during the night

Submit

The IR controls allows the 9070CSWO's IR cut filter to switch to on. This means if you have an IR light stand out, the 9070CSWO can use the night vision or Infrared mode.

Device Tune Up

Device Tune Up

Device Tune Up Setting

Note: The device tune up was designed to make sure that your camera has the memory cleared at a specified time and date.
During this time the device will reset itself and clear any unnecessary information.

Device Tune Up

☒ Disable

☐ Each hour

☐ Each day

☐ Each month

☐ Each week

☐ Watch dog

Date Setting:

day week hour min sec

The device tune up resets the 9070 to make sure that the device is running smoothly. This resets the internal memory of the device by restarting the 9070. You can set the Device tune up to reset each hour, day Month, or Week

Language Settings

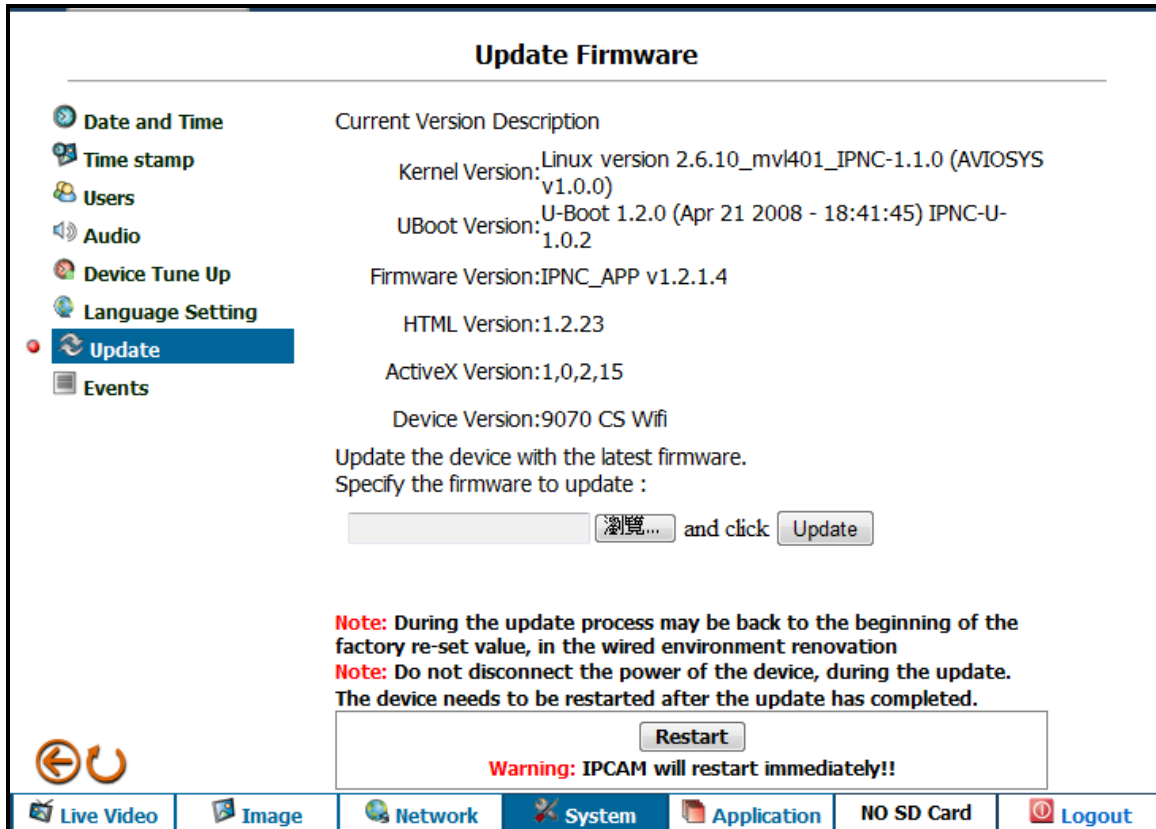
Language Setting

Language:

The language setting section is where you can select the language that you would like to use to use the 9070. Currently there are 3 languages available: English, Chinese (Traditional), Chinese (Simplified).

The 9070 will automatically detect the favored language of choice depending the settings used in Windows.

Update



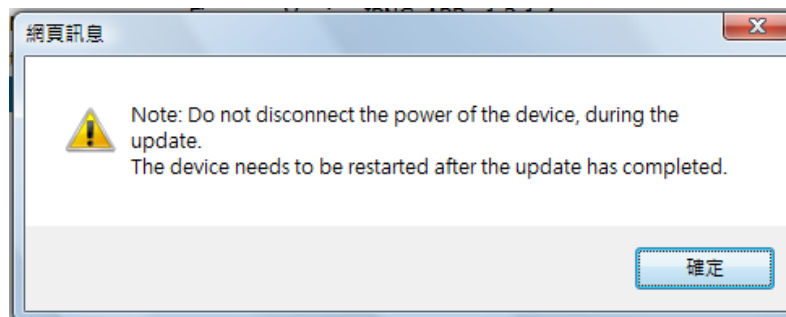
The Update Firmware section is where information on the 9070 is displayed.

The **Kernel Version**, **Uboot Version**, **Firmware Version**, and other technical information on the device is displayed here.

Updating the Device

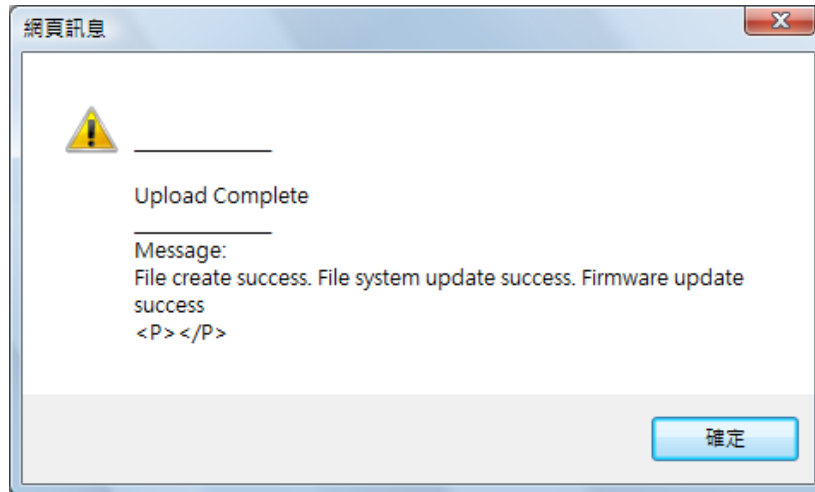
To update the device go to the update section. Here you will find the Current Version description. To update the device:

- 1.) Browse for the correct update file.
- 2.) Hit the update button.
- 3.) A message will appear, reminding you not to disconnect when updating.





- 4.) Please wait for the loading circle _____ to finish, and wait for an update confirmation page.
- 5.) Once the device is updated you will see a update confirmation and click okay.



Warning: Before you go to the next step make sure you have all your setting information written down. The device will reset back to manufacturers default values after you restart the device. You will need reconfigure the IP Kamera 9070, including Email, FTP, IP Address, Gateway, and etc.

- 6.) Unplug the device then plug it back in.
- 7.) Then make sure you re-setup the device.

Event Log

Event Log			
	Item	Date and Time	Events
<ul style="list-style-type: none"> Date and Time Time stamp Users Audio Update Events 	1.	2009-02-23 13:24:59	admin login on 192.168.1.27
	2.	2009-02-23 11:50:01	admin login on 192.168.1.27
	3.	2009-02-23 10:35:00	Schedule
	4.	2009-02-23 10:30:00	Schedule
	5.	2009-02-23 10:05:41	admin login on 192.168.1.24
	6.	2009-02-23 09:34:23	admin login on 192.168.1.88
	7.	2009-02-23 09:13:20	Ethernet alarm
	8.	2009-02-23 09:13:20	Ethernet alarm
	9.	2009-02-23 09:13:18	Ethernet alarm
	10.	2009-02-23 09:12:40	Ethernet alarm
	11.	2009-02-23 09:12:39	Ethernet alarm
	12.	2009-02-23 09:11:34	Ethernet alarm
	13.	2009-02-23 09:11:34	Ethernet alarm
	14.	2009-02-23 09:04:04	admin login on 192.168.1.88
	15.	2009-02-23 08:33:52	admin login on 192.168.1.88
	16.	2009-02-20 17:39:51	admin login on 192.168.1.24
	17.	2009-02-20 17:09:50	admin login on 192.168.1.24
	18.	2009-02-20 16:39:48	admin login on 192.168.1.24
	19.	2009-02-20 16:09:47	admin login on 192.168.1.24
	20.	2009-02-20 15:39:47	admin login on 192.168.1.24
<div> First Page Previous 20 Next 20 </div> <div> </div>			

In the Events Log section you can find the log for the IP Camera. This section will notify you any events that have taken place with the IP Kamera.

Application

Snapshot Path

Setting

- SnapShot Path**
- Recording Format**
- FTP**
- SD Card**
- E-mail SMTP**
- EZ Blog**
- Media Player**
- My Web**
- RSS**
- Schedule Record**
 - Schedule**
 - Enable Schedule Record**
- Alarm**
 - Motion Detection**
 - Enable Alarm**

Snapshot File Location: C:\9070\ **Get Folder Path**

Recording File Location: C:\9070\ **Get Folder Path**

The Application Section allows you to setup the Video File information, FTP, Memory Management, SMTP

Settings

Snapshot Path

Snapshot Path

SnapShot Path: C:\ **Get Folder Path**


The Snapshot path is the location where the snapshot pictures will be saved onto your computer. The default snapshot path will be set to C:\. To select the snapshot path click on the

Get Folder Path button and select the folder where the snapshots will be saved.

Recording Format

Recording Format

Note: To use FTP,SMTP, the SD card capability will be deactivated.User must unmount SD card before this function can be used.

 SD Card

AVI Format: MPEG4(720) ▾

AVI Duration: -- ▾ Second(s)

Submit

Select the Video File format that the device will record in.

1.) **Avi Format:**


MPEG4 (720) & MPEG4 (CIF)

2.) **Avi Duration:**

From the drop-down list, select the length of an AVI file, then press submit

FTP

FTP Application Setting

 **FTP Networking**

FTP Server:	192.168.1.1
Port:	21
User Name:	
File Upload Path:	default_folder

FTP File Setting

Upload Format: JPEG ▾

Note: To access the MPEG4 format, the SD memory must be unmounted.

Submit *(Apply change)*

Unmount *(Safely Remove SD memory)*

Restart *(Restart Device to Remount SD Card)*

The FTP section allows you to view your current FTP settings. From here you may have to un-mount the SD memory so that you can record in MPEG4 format.

Note:

1.) Before you use the FTP function, you will need to set the FTP server information. You can click on the [FTP Networking](#) link to take you to the FTP setup section.

2.) If the SD Card is inserted into the device, the 9070 will only be able to record in M-Jpeg mode to the FTP.

SD Card

SD Card Application Setting

☒ **Enable Auto Overwrite**
(When SD card is full, Auto Overwrite will replace oldest file.)

File setting

Split Filename Type: Named By Index ▾

Split File Size (MB) : 100 MB ▾

File Format: MPEG4 ▾

Submit (Apply change)

Card Status

Capacity:	1.83 GB
Usage:	81 %

SD Format (Warning: All data on memory will be removed.)

Unmount (Safely Remove SD memory)

Restart (Restart Device to Remount SD Card)

File Format: Select the video format that you would like to save into the SD card

Split Filename Type: Select the format that you would like to save the files in the SD card. You can pick from:

Name by Index: Creates file names according to index.

Name by Time: Creates file names according to time.

Split File Size: Select the size of each file that will be saved into the SD.
You can select from:

None, 10mb, 25mb, 50mb, & 100mb.


Enable Auto Overwrite: Auto Overwrite allows the device to automatically replace the oldest file on the SD card when it is full.

SD Format: SD format will format the entire SD card SD Format

SD Unmount: Click the SD unmount button when the SD card is being removed this will safely remove the card without any damages. SD Unmount

E-mail SMTP

SMTP Application Setting

 **SMTP Networking**

SMTP Server: 192.168.1.1

Receiver Email:

File Setting

Attached File Numbers: (1 ~ 20)

Attached File Format : **JPEG** ▼

Note: To access the MPEG4 format, the SD memory must be unmounted.

Submit

(Apply change)

Unmount

(Safely Remove SD memory)

Restart

(Restart Device to Remount SD Card)

In the settings section, you can find the SMTP information by clicking on the SMTP tab. Here you can see the current SMTP Server information and email address.

Storage Settings

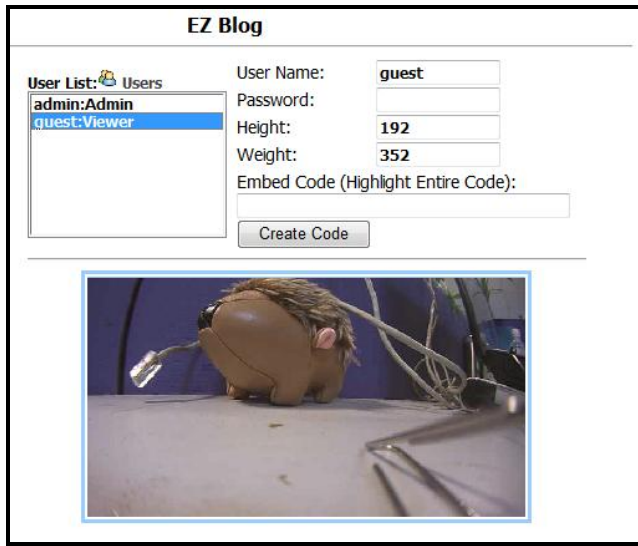
You can also select the file format in which you would like the IP Kamera 9070-IRW to send. Select from **MPEG4** or **MJPEG**.


EZ-Blog

Note: To use the Ez Blog functionality, please make sure that your device has been port forwarded so that it can be accessed through the internet.

EZ Blog allows you to easily integrate code into your blog which will let you directly stream into your blog, website, and any compatible site. This way you can IP Kamera as more than a regular security camera but also a promotional tool.

Note: Any blog platform that supports javascript can utilize the Ez blog functionality (i.e Blogspot).

The image shows a web interface titled "EZ Blog". On the left, there is a "User List" section with a "Users" icon and a list containing "admin:Admin" and "quest:Viewer". The "quest:Viewer" entry is highlighted. To the right of the user list are form fields for "User Name:" (containing "guest"), "Password:" (empty), "Height:" (containing "192"), and "Weight:" (containing "352"). Below these fields is a label "Embed Code (Highlight Entire Code):" followed by a text area. A "Create Code" button is located below the text area. At the bottom of the interface is a video player showing a small, brown, pig-like robot on a white surface.

User List: This shows the Users Available to create an Ez Blog link with. Use a guest user account to create the EZ-Blog. You can easily create on by clicking on the User link  **Users**

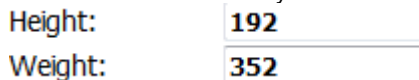
Setup the Embed Code

Next step is to setup the Embed Code that will be implemented into your blog, website, etc.

- 1.) type in the correct password for your login account.

This image shows a close-up of the "User Name:" and "Password:" fields from the EZ Blog interface. The "User Name:" field contains the text "guest". The "Password:" field contains a series of dots, indicating a masked password.

- 2.) Then select the size that you would like the embedded video to be.

This image shows a close-up of the "Height:" and "Weight:" fields. The "Height:" field contains the number "192" and the "Weight:" field contains the number "352".

- 3.) Click on the create code button.

Embed Code (Highlight Entire Code):

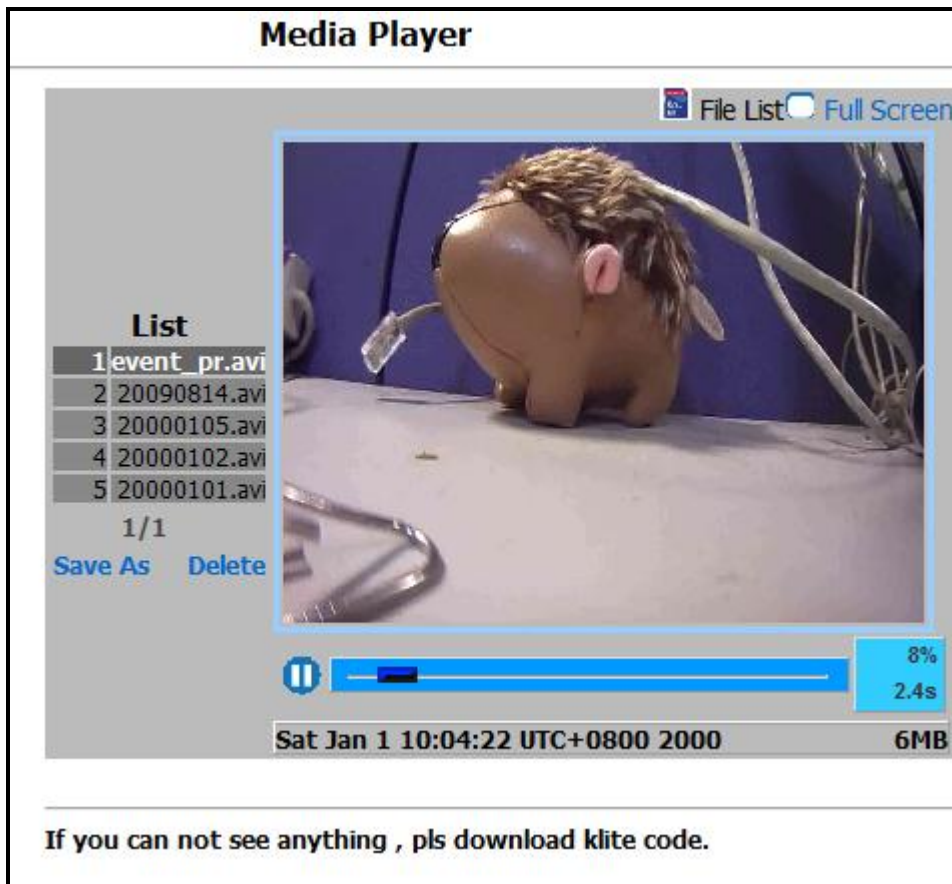
```
<script language="javascript" src="http://
```

Create Code

copy

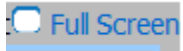
- 4.) You can highlight the embed code from inside the box and then copying (ctrl + C) or you can just hit the copy button to copy the code.
- 5.) Once the code has been copied, place that code somewhere in the body of your blog or website and a video will be displayed on the screen.

Media Player

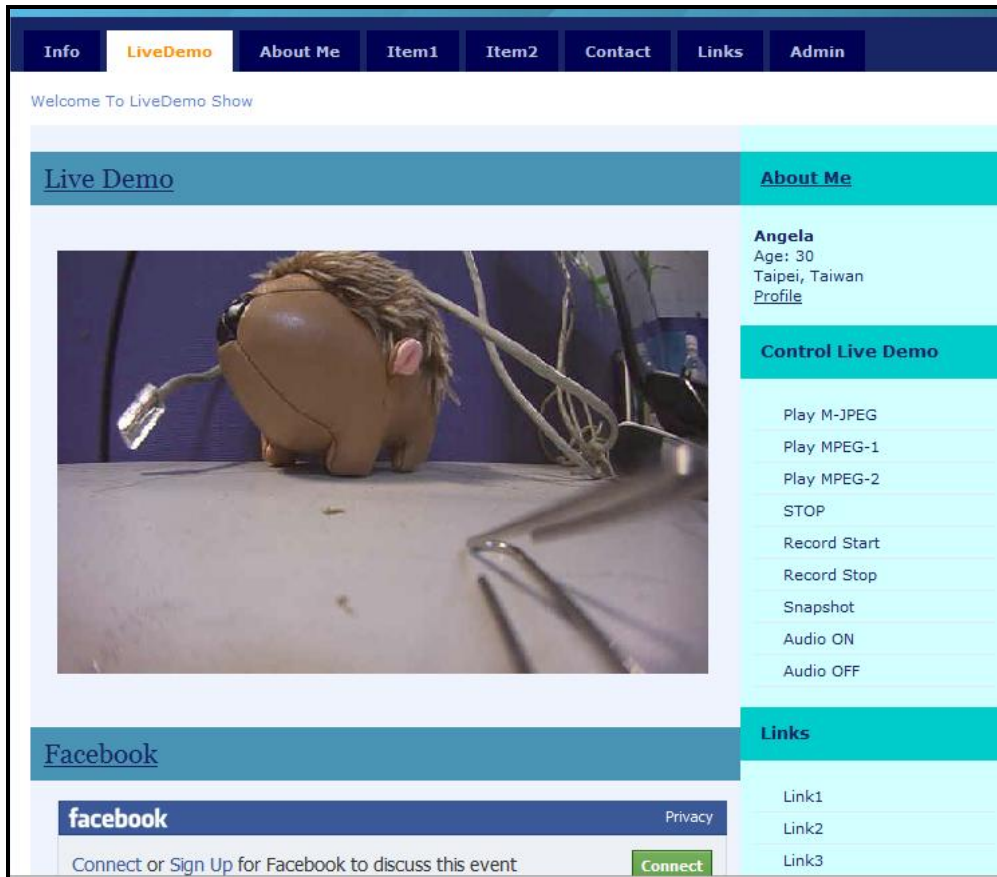


The media player allows you to view your recordings on the SD card directly through the internet without requiring downloading the file first. This feature makes it very convenient for live streaming.

View in Full Screen To view the IP Kamera in full screen model you will need to press the Full Screen mode.



My Web



The My-Web functionality will make your IP Kamera more than just a surveillance tool. Now you can use it to promote your company, restaurant, business, school, and etc. With some basic website skills or tools any can make a My Web site.

Turning On My Web

Enable My Web:	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Login Required:	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Enable my web button:

The enable My Web button will activate the My Web functionality. Once enabled every time the device is accessed it will be set to the My Web Page.

Login Required:

The login required will require your My Web users to login to the device before being able to use it. This is a way to keep unwanted viewers from entering the My Web

How to use my WEB



1. Download sample.
2. Save the zip file to the location .
3. 瀏覽... Press browse, and select the zip file you download.
4. Press upload and send the zip file to 9070 web.
5. Confirm setting .

*** If familiar with webpage language, you can change the webpage in zip file to your own webpage. ***

Setting up My Web

To setup My Web you can download the My Web file from the 9070.

- 1.) Click on the Download Default Page.
- 2.) Save the Zip file to a location where you can edit it
- 3.) Extract the file functions.js
- 4.) Start creating a My Web and be sure to include the functions.js into your code. (Note: Do not include folders within the webpage.
- 5.) After you have created the webpage, make sure to create a Zip file. Zip up the file and

Returning to default My Web page

If you would like to return your 9070 to the default My Web page click the default My Web Page button. This will reset the current My Web to the original manufacturer default.

Using My Web

To use the My Web feature:

- 1.) Use IP Edit and directly log into the IP camera.
- 2.) The device will open the root page of the 9070 to the My Web page.
- 3.) If you would like to return to the normal administrator page for the 9070 you can login to the admin site.

For Example:

9070 IP Address: 192.168.12.111 Port:8080
Then on the web browser type in the following
<http://192.168.12.111:8080/index.htm>

RSS

Use can get 9070-IRW message by RSS as Snapshot, Motion detection , Record as motion

***Notice: User need to register in DDNS ***

RSS

Setup the followinf befor using RSS feature:

- 1.) Port forwarding the 9070 on the local router.
- 2.) DynDns settings must be setup in the router.
- 3.) Enter the DynDns address then hit submit for the correct RSS link.

For more information please view the manual

Rss Enable: ☐ ON ☒ OFF

Subscribe in a reader

RSS <http://192.168.100.168/rss20>

Dyndns: e.g.
9070.dyndns.com:8088

In the Dyndns section, type in the Dyndns that you register from www.dyndns.com and add a /rss20.

Schedule Record

Schedule

Schedule

<input checked="" type="checkbox"/>	Monday	From 10 : 30 To 22 : 35
<input checked="" type="checkbox"/>	Tuesday	From 03 : 39 To 11 : 51
<input checked="" type="checkbox"/>	Wednesday	From 03 : 23 To 19 : 23
<input checked="" type="checkbox"/>	Thursday	From 00 : 00 To 00 : 00
<input checked="" type="checkbox"/>	Friday	From 00 : 00 To 00 : 00
<input checked="" type="checkbox"/>	Saturday	From 00 : 00 To 00 : 00
<input checked="" type="checkbox"/>	Sunday	From 00 : 00 To 00 : 00

	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																								

The schedule allows you to select days and times that you would like to schedule automatic recording. You can pick a day from (Sunday – Saturday) and also a option for Everyday.

To schedule automatic recording:

- 1.) Select the day that you would want to start recording.
- 2.) Select the **From time** and the **To time**.
- 3.) Once the schedule has been created hit the submit button to apply the new settings.

Schedule Recording

Schedule Record Application Enable Setting

☐ Enable Schedule Record - Upload Via  **FTP**

☐ Enable Schedule Record - Save Into  **SD Card**

☐ Enable Schedule Record - Upload Via  **E-mail SMTP**

Note: If any of the following Recording settings need to be altered, make sure to disable all of the settings above first, then submit. Once changes have been made, re-enable the settings above.

 **Recording Format**

 **FTP**

 **SD Card**

 **E-mail SMTP**

Schedule Record allows you to select where the schedule will record the video files to.

Schedule Record – Upload Via FTP: Saves schedule recordings into FTP


Schedule Record – Save into SD Card: Saves schedule recordings into SD Card




Schedule Record – Upload via E-mail SMTP: schedule recordings into e-mail

Alarm

Enable Alarm

Alarm Application Enable Setting

Connection Lost
☐ Enable Alarm - Save Into  **SD Card**

Motion Detection
☐ Enable Alarm - Upload Via  **FTP**
☐ Enable Alarm - Save Into  **SD Card**
☐ Enable Alarm - Upload Via  **SMTP**

Recording Time:

☐ Enable **Alarm Recording Buffer**

Buffer Time :

(Note: For Alarm Recording Buffer to work correctly an alarm above must be activated.)

Enable Alarm – Lost Ethernet Connection: Save into **SD Card:**

When Ethernet connection is lost the device will automatically save into the SD card. Saving a backup.

Enable Alarm - Upload **FTP**

When motion is detected, the IP Kamera 9070 will upload the video file to the selected FTP server.

Enable Alarm - Save Into **SD Card**

When motion is detected, the IP Kamera 9070 will upload the video file to the SD card.

Enable Alarm – Save **SMTP**

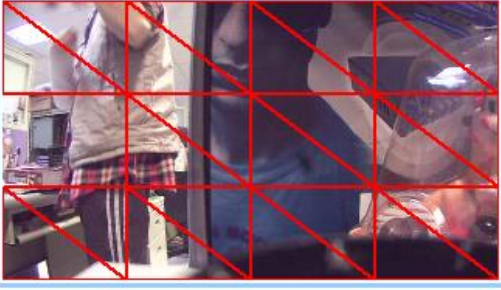
When motion is detected, the IP Kamera 9070 will send the video file to in a E-mail format.

Recording Time: Set the duration of time you would like the IP Kamera 9070-IRW to record when alarm is set off.

Enable Alarm Recording Buffer: The alarm recording buffer allows the camera to the selected amount of buffer time before an alarm has been detected. This allows the IP Kamera 9070-IRW to start recording before any incident has occurred..

Motion Detection

Motion Detection



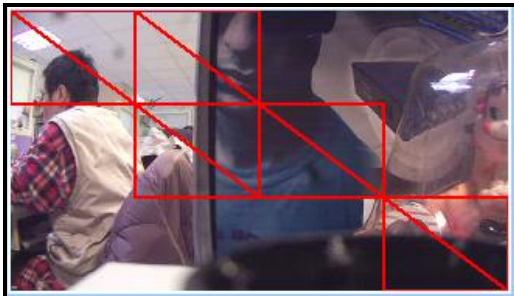
Click the right mouse button to show the popmenu.
Save the setting after you finish editing.

Motion Detection: ☐ Enable ☒ Disable

Sensitivity : ☒ Lowest ☐ 50 (Customized Threshold)

To enable motion detection:

- 1.) Select Enable in the motion detection option.
- 2.) Select the sensitivity of your choice
 - a. You can pick from Lowest, Low, Medium, High, Highest
 - b. You can also customize your own threshold from (1-99)

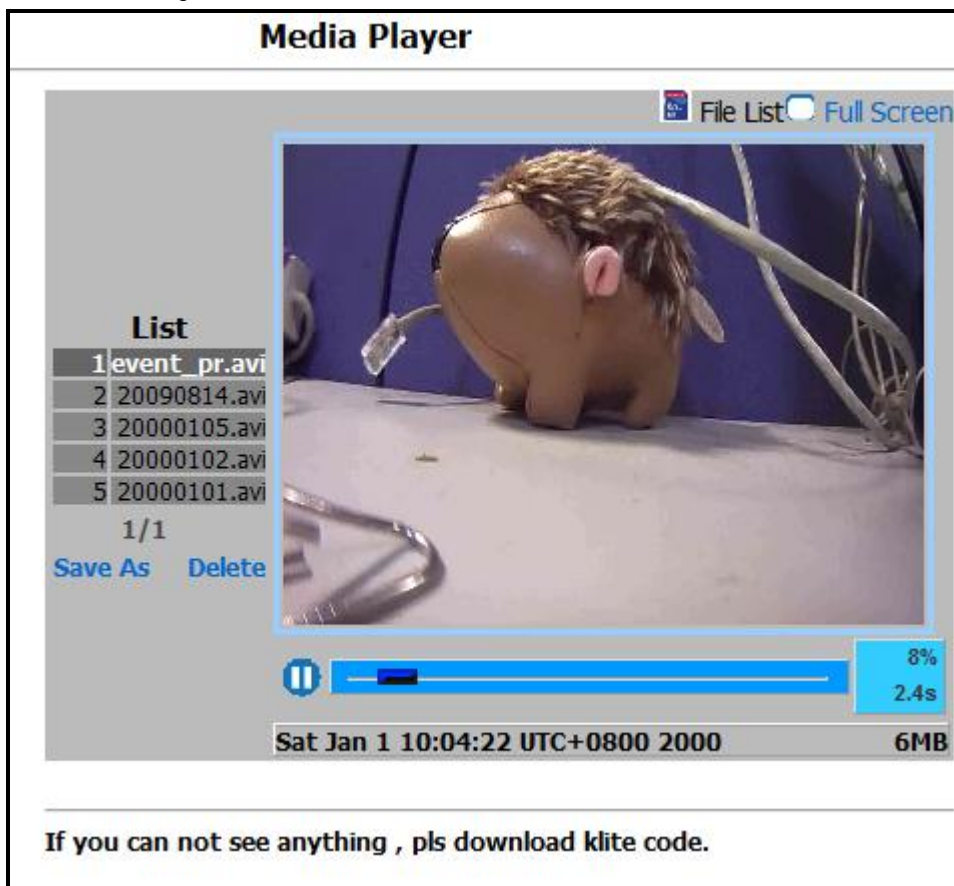


- 3.) Once you have set your settings on the window screen click on the picture where you want the motion to be detected. Double click on the selected areas to remove the choice.



- 4.) You can right click on the window screen for more options
- 5.) Once your settings have been set hit the submit button to save all changes.

Media Player



The media player allows you to view your recordings on the SD card directly through the internet without requiring downloading the file first. This feature makes it very convenient for live streaming.

View in Full Screen

To view the IP Kamera in full screen model you will need to press the Full Screen mode.

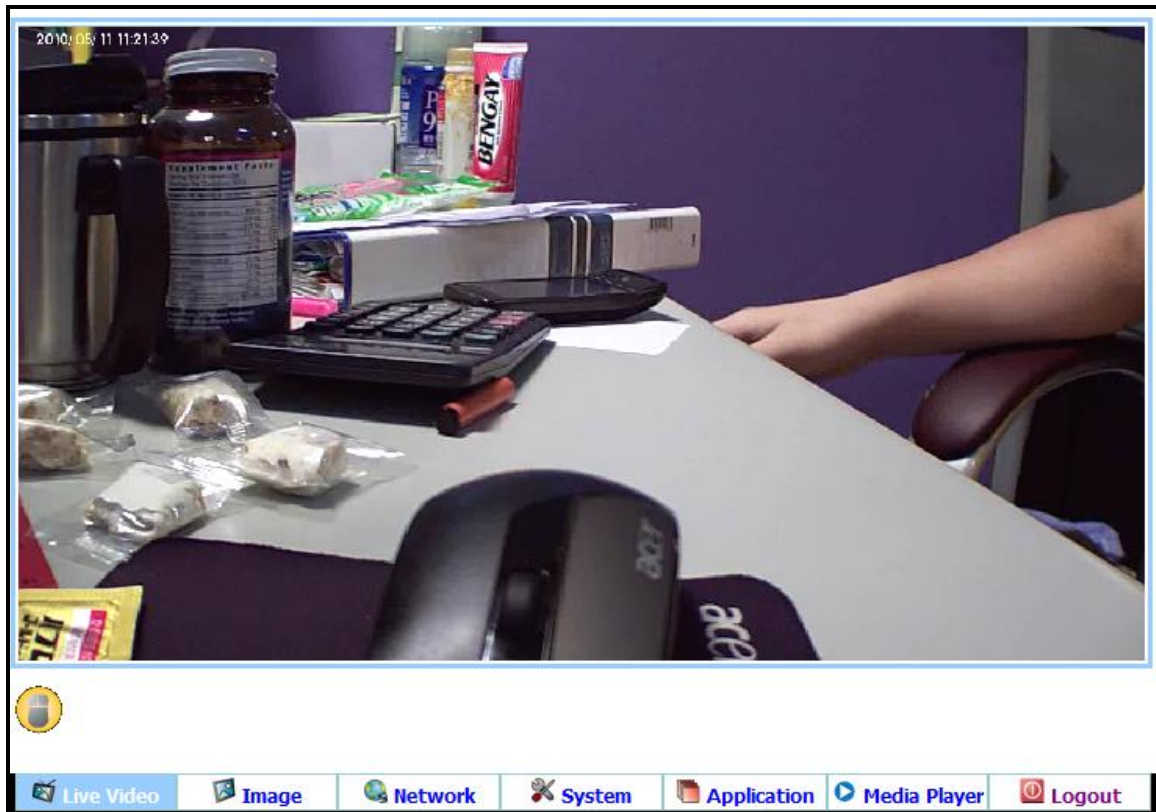


Logout

When you are done use the IP Kamera 9070 CSWO/CSO the logout function allows you to easily logout of your device. This ensures that anyone who uses the device after you will need to re-login to the IP Kamera.

Simply just click on the logout button on the bottom corner.





7.) Controlling the Device

CGI HTTP Commands

Http commands allow you to control the device with commands. The basic commands are provided below.

There are two ways to input http commands with authorization required

Password in http:

`http://login:password@ipaddress:port/command`

Password not in http:

`http://ipaddress:port/command`

Note: If you use the password not in http: command you will need to enter it when the browser asks for the password.

Snapshot Command:

The snapshot command takes a snapshot of the camera in the current view.

`http://ipaddress:port/snapshot.cgi`

Ex. http command:

<http://192.168.100.50:85/snapshot.cgi>

Change Name:

This command allows you to change the name of the IP Kamera 9070-IRW

`http://ipaddress:port/vb.htm?cameratitle=name`

Ex. http command:

http://192.168.1.192/vb.htm?cameratitle=test_907011

Change IP Address:

This command allows you to change the IP Address of the IP Kamera 9070-IRW

`http://ipaddress:port/vb.htm?internetip=ipaddress`

Ex. http command:

<http://192.168.1.192/vb.htm?internetip=192.168.1.191>

Change Port:

This command allows you to change the Port of the IP Kamera 9070-IRW

`http://ipaddress:port/vb.htm?httpport=portnumber`

Ex. http command:

<http://192.168.1.192/vb.htm?httpport=1025>

Change Subnet Mask:

This command allows you to change the Subnet Mask of the IP Kamera 9070-IRW

`http://ipaddress:port/vb.htm?subnetmask=subnetmask`

Ex. http command

<http://192.168.1.192/vb.htm?subnetmask=255.255.0.0>

Note: Default subnet mask is 255.255.0.0

Change Gateway:

This command allows you to change the gateway the IP Kamera 9070-IRW.

`http://ipaddress:port/vb.htm?gateway=gatewayaddress`

Ex. http command

<http://192.168.1.192/vb.htm?gateway=192.168.1.1>

Change DNS:

This command allows you to change the gateway the IP Kamera 9070-IRW.

`http://ipaddress:port/vb.htm?dnsip=dnsipaddress`

Ex. http command

<http://192.168.1.192/vb.htm?dnsip=168.95.1.1>

MJPEG Streaming

This command allows you to integrate streaming data into a software, website, or any other application.

<http://ipaddress:port/ipcam/mjpeg.cgi>

Ex. http command

<http://192.168.1.192/ipcam/mjpeg.cgi>

8.) Using RTSP with VLC

Before Setting up VLC: Make sure that the 9070-IRW is set to be the DMZ host on the router that you are using, please refer to the routers manual on how to accomplish this.

How to setup VLC media player & Open a network stream

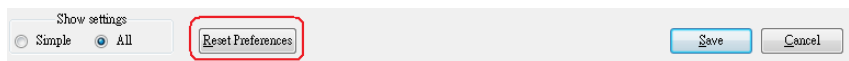
Real Time Streaming Protocol (RTSP) gives the device another way to stream live video. Using programs that support RTSP, you can broadcast the videos from the 9070 live.

Note: To access the device from outside the network. Please make sure of the following:

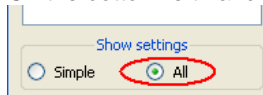
9070 should be set to DMZ host,

or mapping router's TCP ports 554 and 8554 to 9070, preferably at the same time mapping UDP port 6970-9999

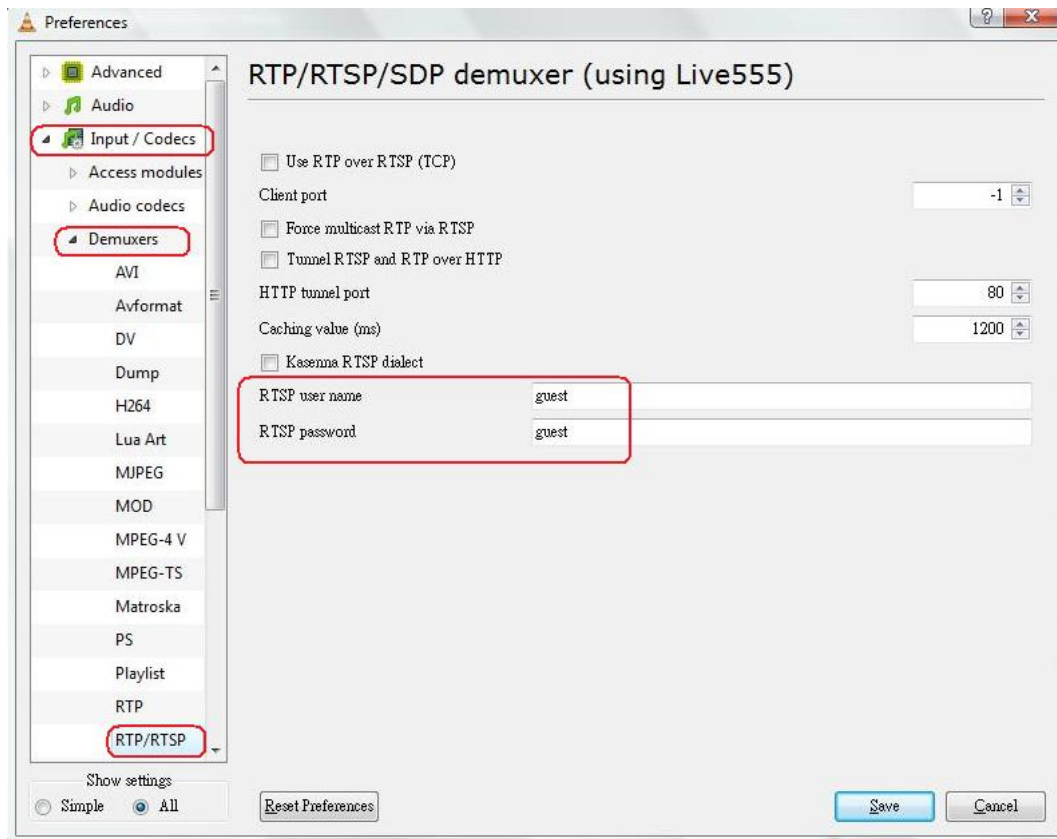
- 1.) Open VLC media Player
- 2.) Click on Tools > Preference
- 3.) On the bottom of the screen click the Reset preference button.



- 4.) On the bottom left hand side of VLC select the all under the show settings area.



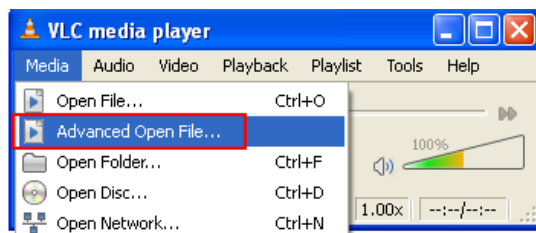
- 5.) Then in the left panel select Input / Codecs > Demuxers > RTP/RTSP and type in the **RTSP user name** and **RTSP password**.



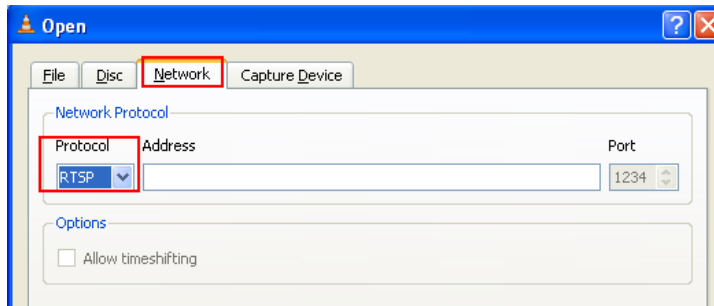
6.) Check the Cache value. *For low latency, it should be 70~80 based on PC's performance.*
 Note: If the video is not smooth, set the caching value from 150~1200. This problem could be due to too much congestion, busy pc, and etc.

7.) Save the new settings

8.) Then go back to the VLC media player and go to Media > Advance Open File

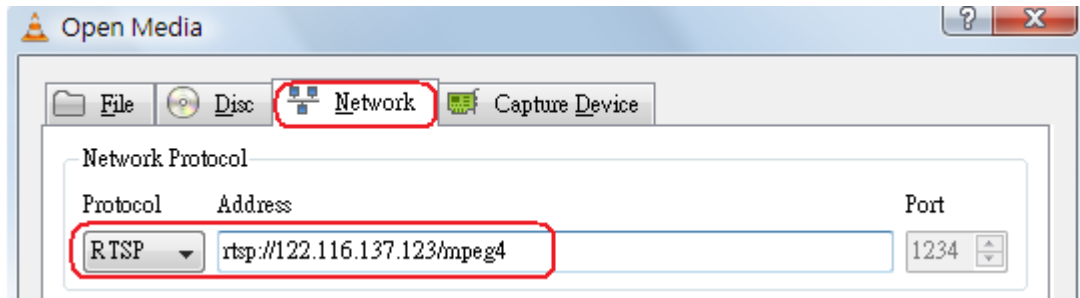


9.) Next select the network tab and under the protocol select RTSP.

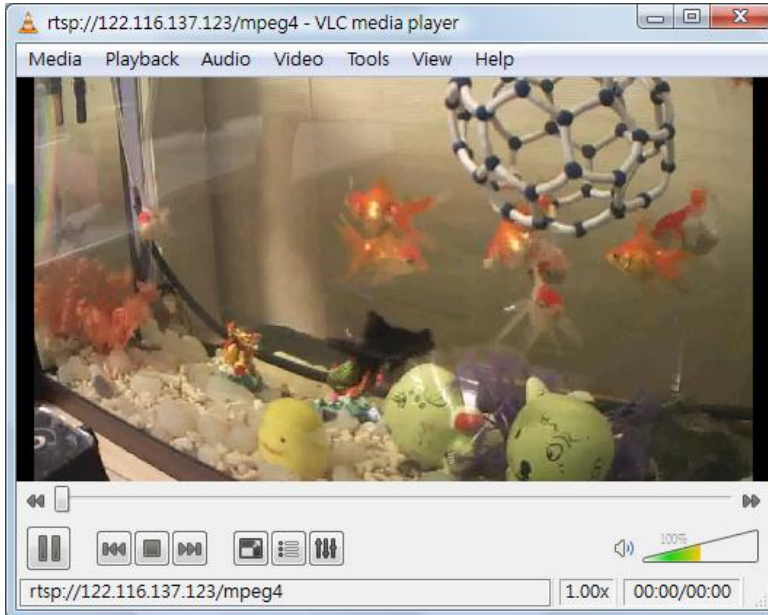


- 10.) Type in the RTSP address of your device
For Mpeg4 Stream1 : rtsp://<IP Address>/mpeg4
For Mpeg4 Stream2 : rtsp://<IP Address>:8554/mpeg4

Example: rtsp://122.116.137.123/mpeg4



- 11.) Hit the play button and wait a few seconds for the program to start streaming.



9.) Using CNT with Surf16 CH

CNT makes connecting to the IP Kamera 9070 a very simple task. Using Surf 16 CH and multi device DVR monitoring software, you can easily view your 9070-IRW. Follow these simple steps:

MAC Address

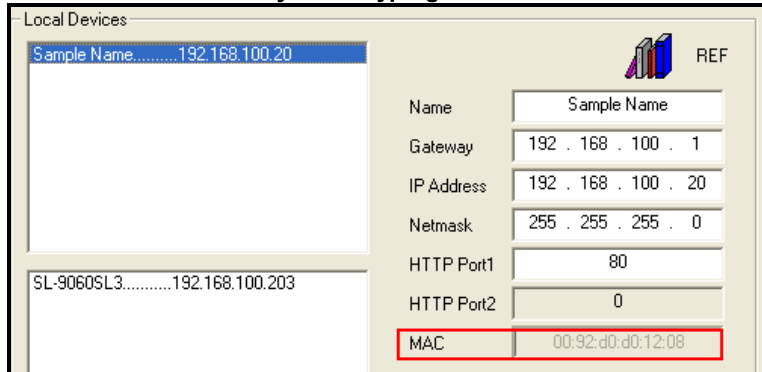
There are two ways to find the MAC address in IP Edit .

***Note: IP Server must be enabled on your device's webpage. By default IP Server is enabled.**

Find MAC Address in LAN Using IP Edit

- 1.) In IP Edit , highlight the device that you are using. On the right side of IP Edit you will find the MAC Address that you will need to use CNT.

***Note: Make sure when you are typing in the MAC address to leave out the “:”**



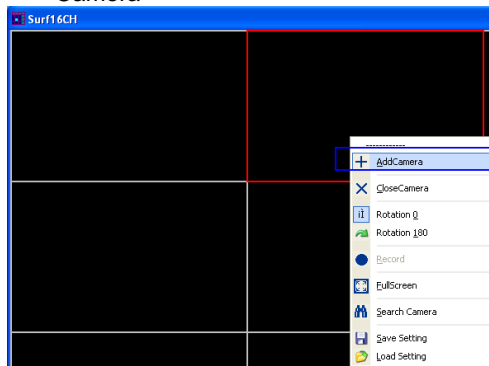
Local Devices	
Sample Name.....192.168.100.20	
REF	
Name	Sample Name
Gateway	192 . 168 . 100 . 1
IP Address	192 . 168 . 100 . 20
Netmask	255 . 255 . 255 . 0
HTTP Port1	80
HTTP Port2	0
MAC	00:92:d0:d0:12:08

Find MAC Address in WAN Using IPService on IP Edit

- 1.) To find your MAC Address through the internet, Open IP Edit and hit the connect button on IP Service.
- 2.) Then Type in the name of your device in this case it is “Sample Name”, then hit the search button.
- 3.) Your device should be listed and the MAC address should be displayed on the screen. Copy down the MAC address and use it to connect via CNT.

Add device using CNT

- 1.) On Surf 16 Ch DVR software, right click on the screen on one of the windows and select Add Camera



- 2.) Then under the section labeled **MAC:** Type in the MAC address.

3.) Do not forget to enter the password and login.

10.) Frequently Asked Questions (F.A.Q)

For More updated FAQ please visit the FAQ section of website at:

<http://sites.google.com/site/aviosysfaq/>

Q1: Why can't I view the video files that I have recorded, nothing is playing?

Ans: VLC Codec, you can download VLC Codec from their website at:

Q2: How do I reset the device to manufacturers default values

Ans: On the back of the device there is a reset button, hold down the reset button for more than 7 seconds. Then give the 9070-IRW a 1 minute to restart. Once the device has restarted it will be set back to manufacturer default settings.

Default Values

Default IP: 192.168.1.168 (When 9070-IRW is connected to PC directly)

Default Login: admin

Default Password: 12345678

Q3: Why does the device on EPTZ change my video mode?

Ans: When EPTZ is activated Video Codec mode will be switched to MPEG4 & M-Jpeg when disabled the codec will be set on Mpeg1, Mpeg2, & M-Jpeg.

Q4: How do I take snapshots using the EPTZ function?

Ans: When using EPTZ function remember that only the snapshot functions works with the EPTZ controller. If you are just using the mouse to Pan Tilt and Zoom into your picture you the snapshot button will not capture the screen correctly. A way you can take a picture of the screen using the EPTZ with the mouse is to click on the print screen button on your computer.

Q5: Why is the RTSP not connecting to my VLC player or Quick time Player?

Ans: To use the RTSP functionality it is necessary to first set your 9070-Lite to be the DMZ host in your network. Also be sure to port forward your device at the following ports.

Port 554 for 1280 x 720P

Port 8554 for CIF format

Please refer to the routers manual on how this is setup

Q6: How do I improve the image quality on this device?

Ans: The Image quality of the 9070 is dependent on the bit rate of the device. With a larger bit rate the device will naturally create higher quality image, but this will affect the smoothness of the streaming when accessed through the internet. To find the most optimal settings for image quality and streaming smoothness, try different bit rate settings to achieve the best fit settings. .

11.) Customer Feedback

Your Feedback is definitely important for us to continue providing the great quality products and service that Aviosys has to offer. We definitely would like to know what you think about our products and how we can we can make your Aviosys experience even better.

Please email us at our service department at Service@Aviosys.com or visit customer feedback form at:

<http://spreadsheets.google.com/viewform?hl=en&formkey=dGowalg3UndrdTJHNUlxdlljQXI3Q2c6MA..#gid=0>

We are happy to serve you to the best of our ability and to provide an ongoing positive experience with Aviosys. Thank you for your support.