

EnGenius®

HOME
Guardian

EDS1130

Intelligent IP-Camera

User Manual



IMPORTANT

To install this IP-Camera please refer to the **Quick Start Guide** included in the product packaging.

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Chapter 1

Product Overview



The **EDS1130** is a Wireless Intelligent Network Camera which adds surveillance capability to the home network environment. It helps family members and small business owners keep an eye on what matters and get notified by what just happened on demand allowing around-the-clock monitoring remotely.

It features LED Infrared Night Vision with automatic activation system. Megapixel HD live streaming with high speed H.264 encoding ensures fine quality image recording without losing any details. Infrared Night Vision feature can deliver 24 hours non-stop monitoring. With the support of EnGenius Cloud service, you can monitor your home remotely at anytime from anywhere on iPhone®, iPad® and Andorid™-based smartphone and tablet using EnViewer app or on PC via web-based User Interface.

Introduction

This document will guide you through steps in detail for EDS1130 installation and both basic and advanced configurations. Be familiar with the product features can help you fully utilize the camera for various application scenarios. Please note that the product features may improve over time, be sure to check out the latest firmware and user manual for most updated changes on EnGenius website.

Thank you for choosing EnGenius products.

Read Before Using

For users' convenience, the camera is configured with DHCP enabled by default which allows the camera to get an IP address for itself automatically. This applies to the majority of the home network settings. However, if you are connecting the product in an office (or any public settings), you may need to consult the IT technician at the MIS department ahead to avoid IP address conflict.

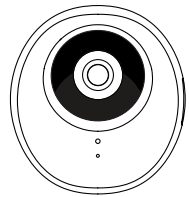
Like all electronic devices, do not install the product in hazard environment where humidity or temperature is high to avoid danger. This camera is designed for indoor usage only, do not expose it directly under the sun and avoid contact with water. In case of wall-mount installing, secure the camera and wires in place and prevent it from dangling.

Key Features

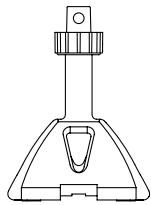
- + Megapixel HD Resolution to Deliver Quality Streaming on A Variety of Mobile Devices and PCs
- + LED Infrared Night Vision up to 16 Feet (5 Meters) with Automatic Activation System
- + Wireless-N Network Compliant with Optimum Wi-Fi Performance
- + Supports Dual-Stream Live View with High Speed H.264 Encoding
- + Built-in Microphone & External Audio Out for Two-Way communication
- + Multiple Storage Options - Built-in Micro SD/SDHC Slot for Onboard Storage and Samba/FTP Client to Save to an External Storage
- + Configurable Motion Detection Windows
- + EnGenius Cloud Services Supported (Apps and Web-based Services)
- + Easy Setup with Simple Configuration using UID QR Code or Auto Search
Work with EnViewer APP
- + Supports Push Message and Play Back on Smart Devices triggered by Motion/Sound Detection

Package Contents

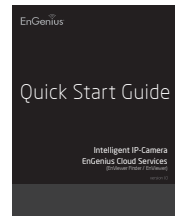
The package should contain all of following items shown below.



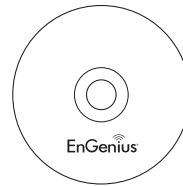
Camera



Camera Stand



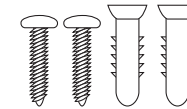
Quick Start Guide



CD



QR Code Label
(for EnViewer APP)



Wall Mount Screw Set



12V/1A Power Adapter



RJ-45 Ethernet Cable

Physical Description



- 1** Camera
- 2** Infrared LED x 6
- 3** Micro SD Card Slot
- 4** Brightness Sensor
- 5** LED indicator: Power
- 6** Microphone Receiver
- 7** Power Jack
- 8** RJ-45 Ethernet Port
- 9** Speaker
- 10** LED indicator: WiFi / WPS
- 11** WPS button
- 12** Rest button
- 13** Camera stand

LED Status

LED indicator shows operational status with colors.

LED Indicator: Power

Color	Status
Green Blinking	Booting up
Green	Local Connection established

LED Indicator: WiFi/WPS

Color	Status
N/A	Wi-Fi is off
Orange	Wi-Fi is on but did not connect to Gateway/Router yet
Green Blinking	Pairing WPS
Green	Wi-Fi connected



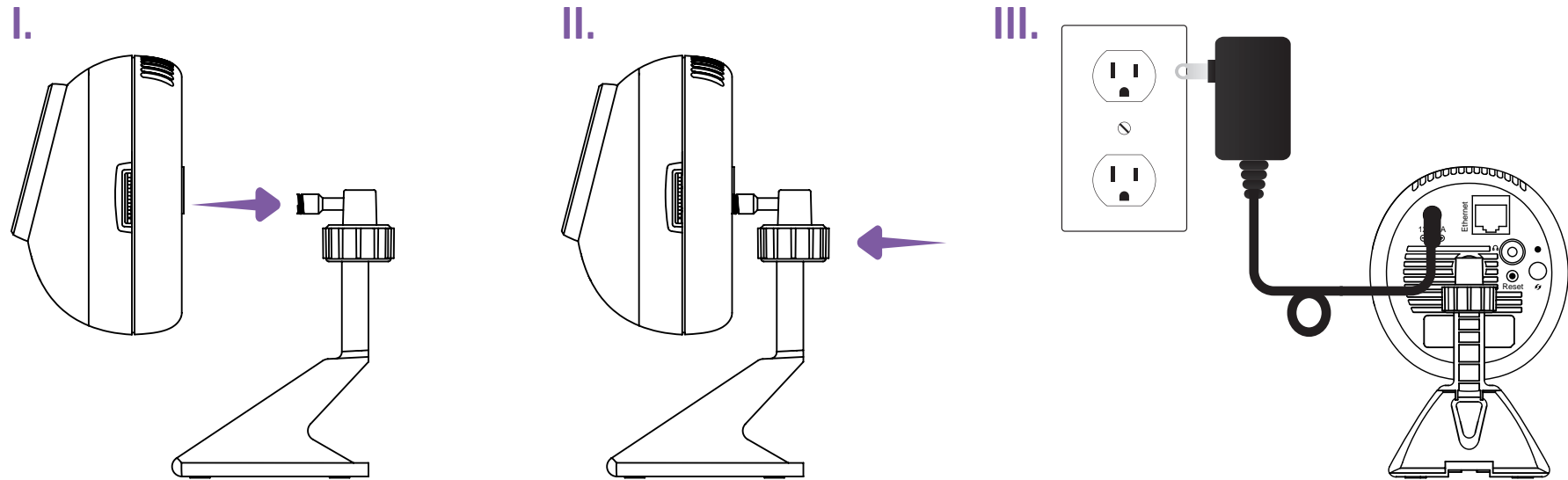
Chapter 2

Installation



Hardware Assembly

Before installing the camera, ensure that the camera is properly configured and tested before hardware installation especially when the camera is intended to be mounted on a wall. Also, the power outlet is required near the installation site.



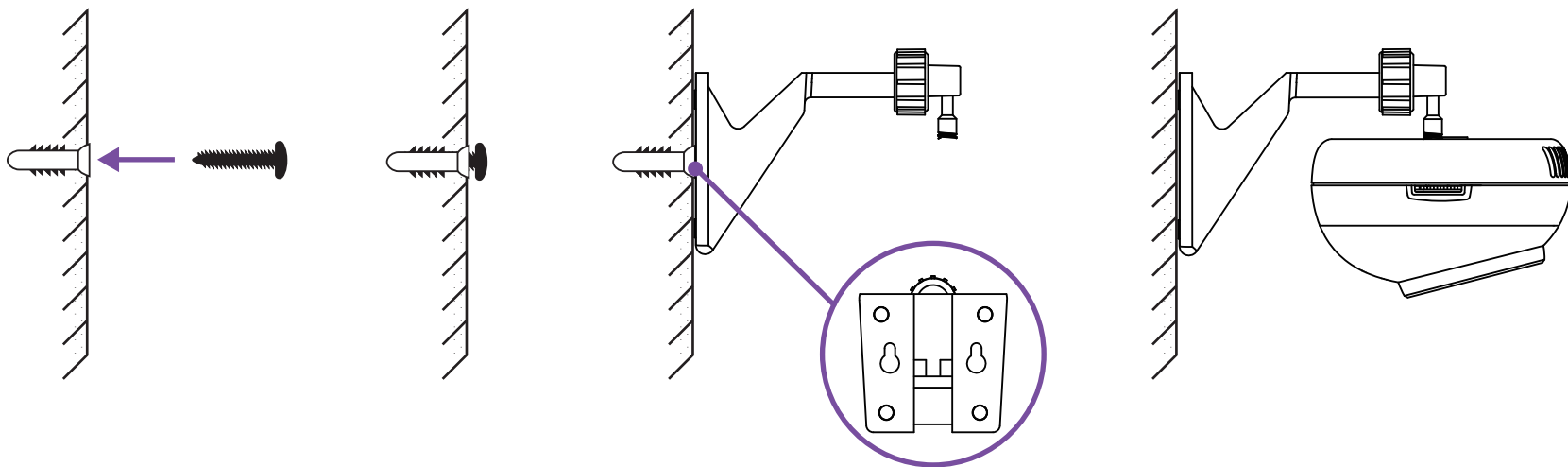
- I. Screw the stand to the camera.
- II. Adjust camera angle and tighten the neck knob.
- III. Attach the power adapter to the camera and plug into a wall outlet.

Tabletop

- Complete the camera assembly. Find a secure location where the monitored space is within the camera view range and adjust the camera angle focusing on the target area or object.
- Plug in the power adapter to the wall outlet once ready.

Wall-mount

- Detach the camera from the stand for easily installation.
- Find a proper place on the wall where camera is able to aim at the monitored space.
- Once location is determined, mark and drill two pilot holes aligning to the screw holes at the bottom of the camera stand. Once aligned, put wall anchors into the holes and insert screws into the wall anchor. Screw and secure the stand in place.
- Now, you can attach the camera to the stand. Then, plug in the power adapter to the wall outlet to complete the installation.

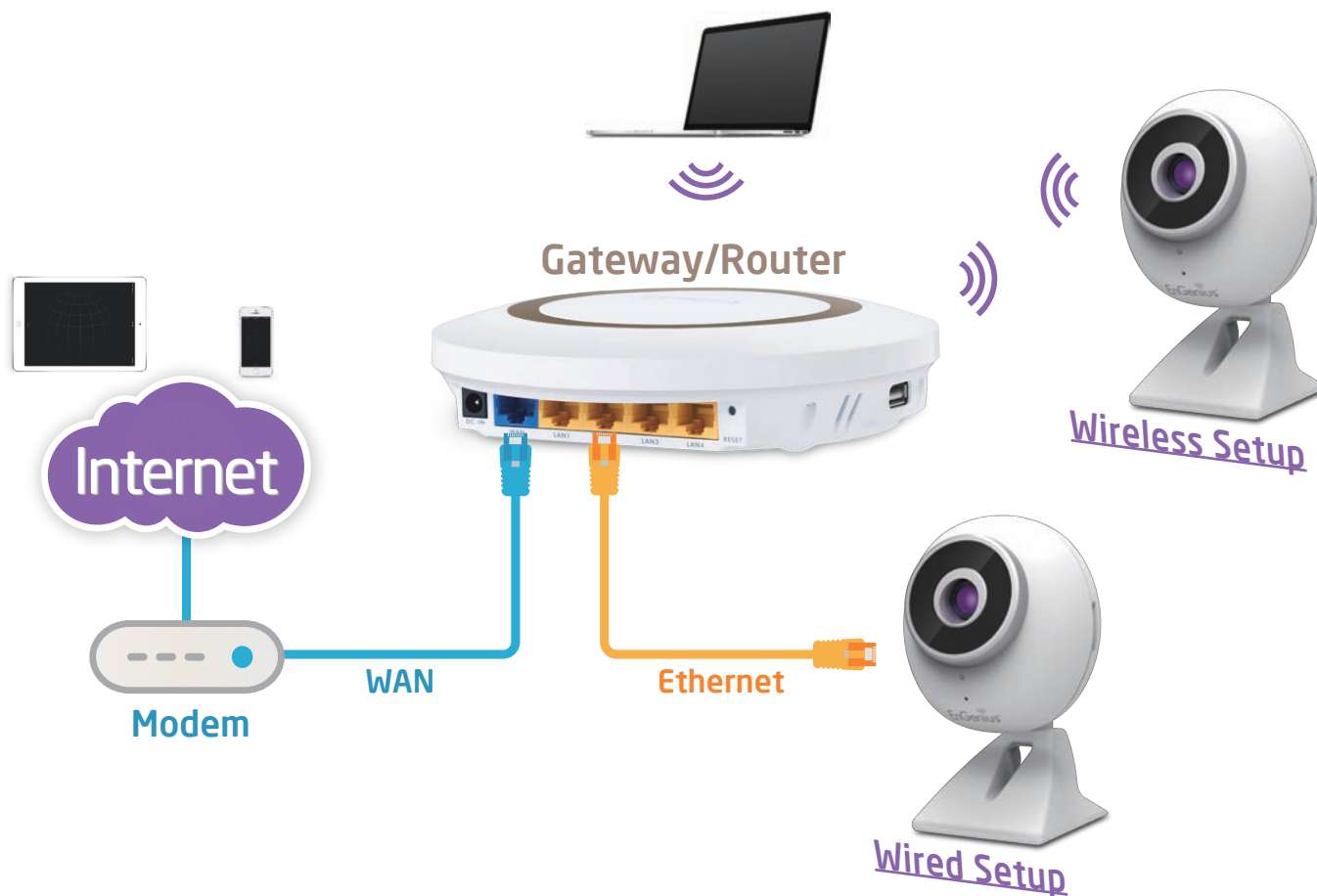


Network Deployment

Before setting up the camera with your gateway or router, please ensure the Internet is ready.

When camera is configured with the gateway/router with Internet connection, you can then access the camera throughout your home or studio office. This section will guide you through the connection setup. Please follow the succeeding guide step by step for setting up the connection between your camera and the home gateway/router.

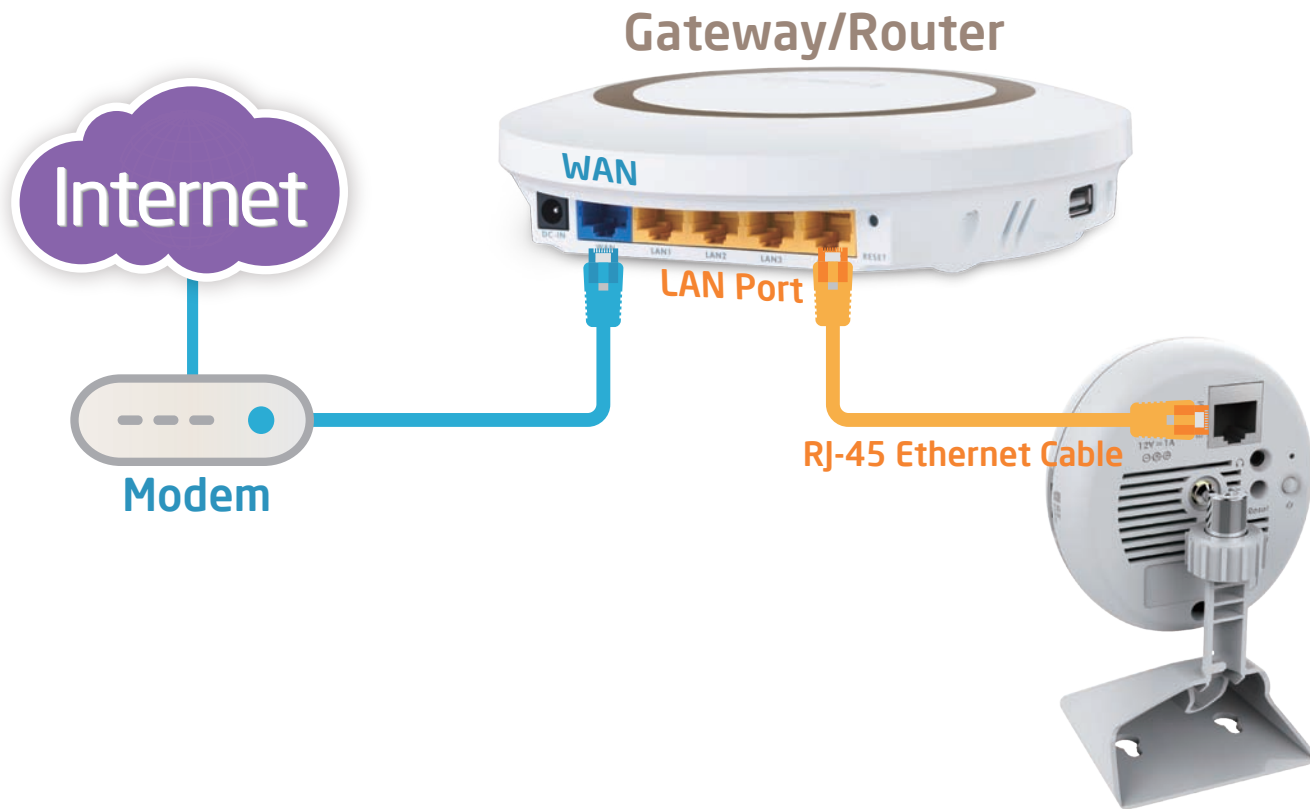
There are two ways to establish connection between the camera and gateway/router: Wired (Ethernet) and Wireless (Wi-Fi).



Connecting via Ethernet Cable

Connect the camera to the gateway/router on the LAN ports with a network CAT5 RJ-45 Ethernet cable (shown below). You may use the cable included in the package for initial setup; however, you may be required to switch to wireless setting or purchase a longer cable to extend the connecting range.

As a rule of thumb, using an Ethernet cable for optimized connectivity if your camera is close enough to the gateway/router; and for wall-mount installation, adopting wireless setup will be a better choice. Choose either way for the application you find suitable.



Connecting via Wi-Fi Setup

It is recommended that to make initial setup with RJ-45 Ethernet cable and then switch to wireless after you have completed all the settings. However, you can also start wirelessly with WPS mechanism.

Note: Ensure the gateway/router supports WPS feature and confirm that the feature is enabled.

Make sure two devices are close enough and the gateway/router is not occupied by heavy traffic or P2P loading.

I. Press the WPS button (shown below) on your gateway or router until WPS LED blinks.

II. Press and hold the WPS button on the back of your camera for 1-5 seconds and the Wi-Fi LED will start blinking frequently. When the connectivity is complete, the Wi-Fi LED will become solid green. The process may take up to 1 minute.

Please note that there may be differences in WPS between brands; therefore, if the gateway or router does not respond to camera connection request properly, please use RJ-45 cable for initial setup and manually configure wireless setting afterwards. Please refer to [Chapter 3](#) for manual wireless setup.



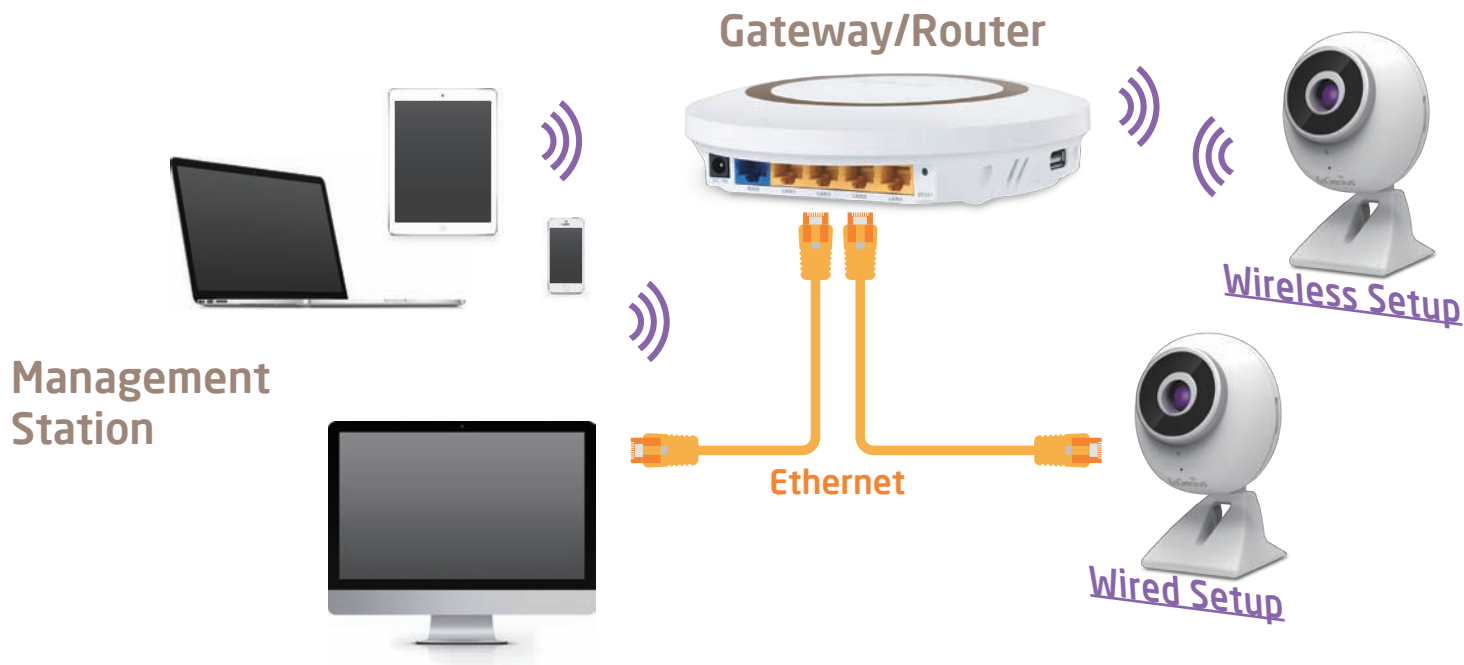
Chapter 3

Accessing the Camera after Installation



There are several ways to get access to your camera throughout your home network. You should probably have a setup similar to the following diagram. You can manage the camera using your PC, Laptop, or via iPhone, iPad or Android-based mobile devices; we will call it **management station** in the following context.

Note: Please be advised that management station and the camera must be connected to the **same gateway or router**.



Managing using PC or Laptop


EnViewer Finder by EnGenius

EnViewer Finder is an utility tool provided by EnGenius that helps you to discover the camera within the local network. You should be able to find the tool from the included CD in the package. Please copy the tool to your **management station** desktop for quick access when you need it. Please take note of the IP address shown. In this example, **192.168.0.101** is the camera IP address.



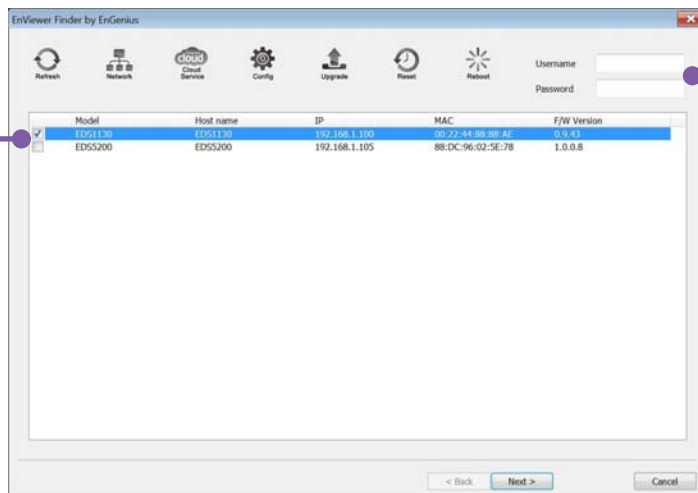
EnViewer Finder by EnGenius

Double-click on the icon to run the installation.

The camera list displays the discovered cameras currently connected to your gateway or router (local network). If you do not find the one you intend to configure, please click on  to rescan the network until it appears on the list.

Refresh

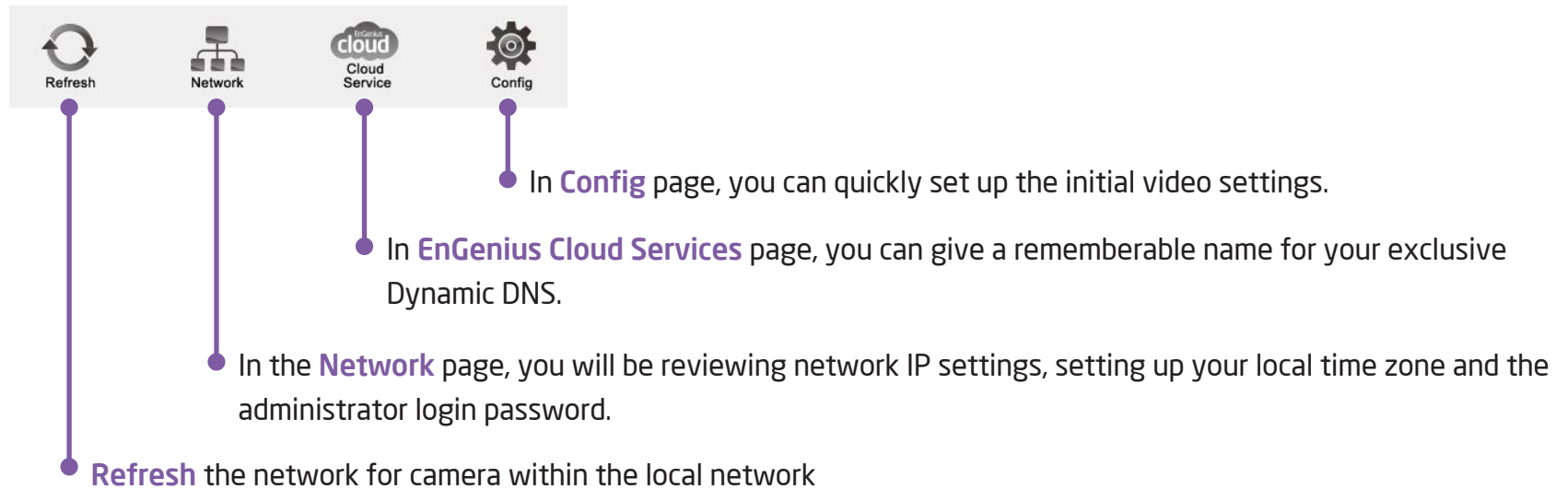
Note: Please ensure any heavy-loading applications such as P2P that may occupy your home network. The scanning process may take a few seconds.



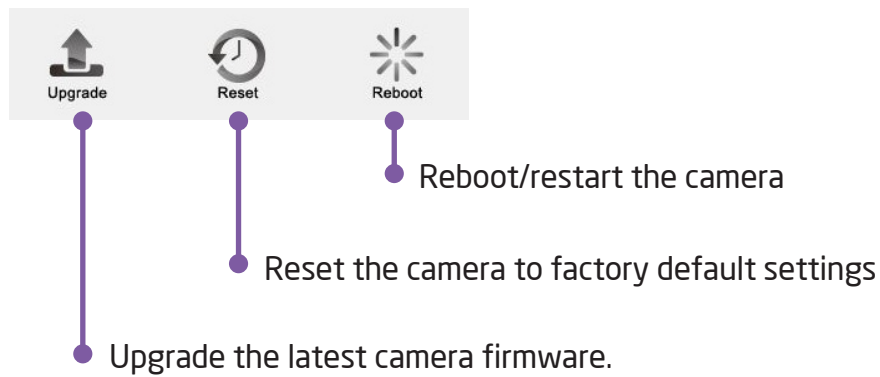
Enter **Username** and **Password** on the upper right for the selected camera on the list. The default value of both Username and Password is admin.

Then, click on **Next** to start configuration.

The **EnViewer Finder** will guide you step by step through the basic settings, including Network, EnGenius Cloud Services and Video Configuration. You can also switch between settings by clicking the icons on the top of the panel.



EnViewer Finder can also assist you to manage the advanced device management.



EnViewer Finder >> Network

EnViewer Finder by EnGenius

Home Network Cloud Service Config Upgrade Reset Reboot

Mode
 DHCP Manual PPPoE

TCP/IP
IP: 192 . 168 . 0 . 100
Subnet mask: 255 . 255 . 255 . 0
Gateway IP: 192 . 168 . 0 . 1
DNS IP: 192 . 168 . 0 . 1

PPPoE
Username:
Password:

UPnP
 Enable UPnP

System time
Time setup: Sync with NTP
Timezone: (GMT+08:00)Taipei, Taiwan
NTP server: pool.ntp.org

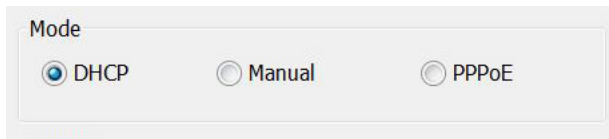
Authorization
Username: admin
Password:
Confirm password:
Camera name: EDS1130

< Back Next > Cancel

EnViewer Finder: Network >>

Mode

There are three modes that your camera can get its IP address: **DHCP**, **Manual** or **PPPoE**.



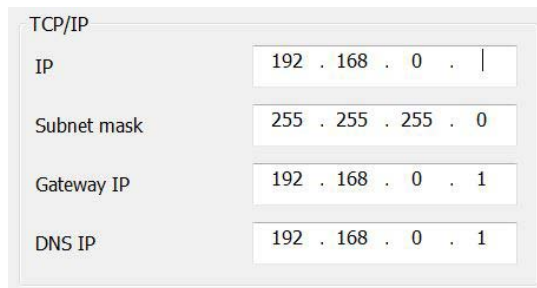
Mode

DHCP Manual PPPoE

DHCP:

It is the most popular way in the home network settings. It will request IP address from your gateway or router automatically. The requirement is that your gateway/router should enable DHCP (which is basically the default setting for most of the home gateway/router products). You are not required to enter any IP related information.

Manual:



TCP/IP

IP	192 . 168 . 0 .
Subnet mask	255 . 255 . 255 . 0
Gateway IP	192 . 168 . 0 . 1
DNS IP	192 . 168 . 0 . 1

You will need to assign the IP address details in TCP/IP section. Please ensure that the IP address is not being used by someone else in the network.

PPPoE:



PPPoE

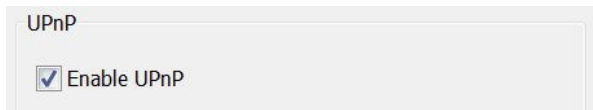
Username	<input type="text"/>
Password	<input type="text"/>

If you are connecting to the Internet without going through your home gateway/router, you can connect the camera directly to your modem (given that your Internet service is using PPPoE protocol). Please consult your local network service provider for more detail. Basically, the PPPoE setting is exactly the same as what your home gateway or router. You will need to provide at least the **Username** and **Password** to get the access.

EnViewer Finder: Network >>

UPnP

This feature must be enabled so that the camera can be discovered by UPnP services. Leave it **enabled** if you unsure what UPnP is.

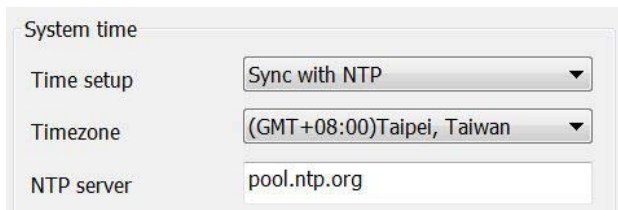


UPnP

Enable UPnP

System Time

Like any other surveillance system, time is essential because we want to keep track of the time of the events recorded or detected by the camera. By default, the camera is connected to a public time server (pool.ntp.org) and its time is always synchronized with the server over the Internet. Normally, you only need to change the **Time Zone**. Choose the one that matches your location from the dropdown menu. Leave the other settings as default should be fine. Setting the wrong time server or time zone will result in inaccurate scheduling and time stamp.



System time

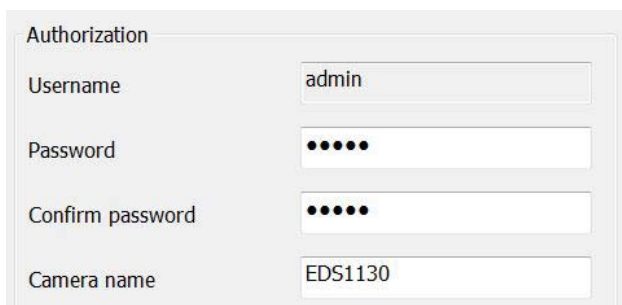
Time setup: Sync with NTP

Timezone: (GMT+08:00)Taipei, Taiwan

NTP server: pool.ntp.org

Authorization

You may change the **Password** of 'admin' or **Camera Name** here. Please note that, once you changed the password. You will need to provide your new password the next time your login the camera through EnViewer Finder or Web Browser. The Camera Name is the camera host name that represents the identity of the camera. If you installed several cameras, please assign a unique name for each camera for better identification.



Authorization

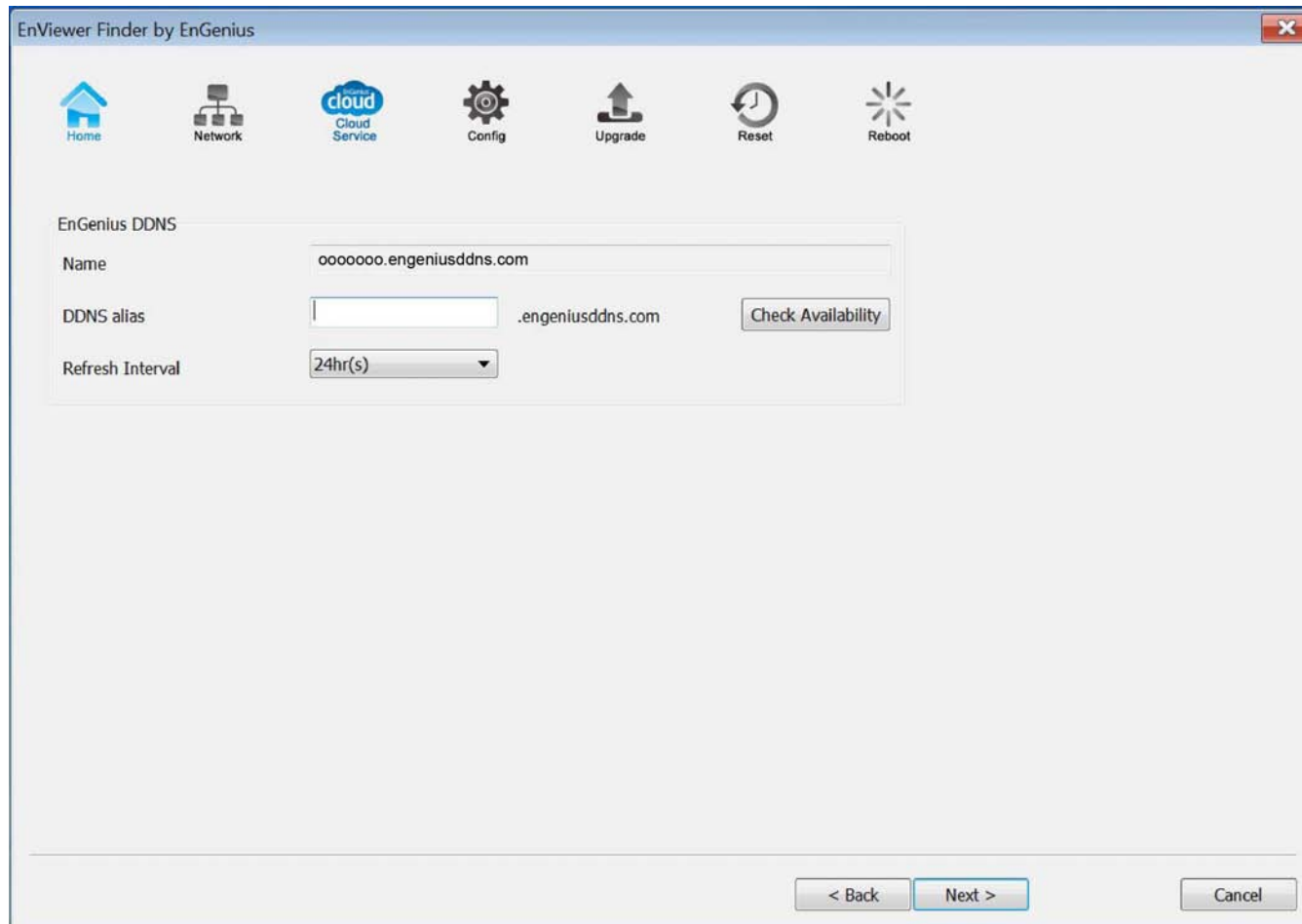
Username: admin

Password: ●●●●

Confirm password: ●●●●

Camera name: EDS1130

EnViewer Finder >> EnGenius Cloud Service



The screenshot shows the 'EnViewer Finder by EnGenius' application window. At the top, there is a navigation bar with icons for Home, Network, Cloud Service, Config, Upgrade, Reset, and Reboot. The main area is titled 'EnGenius DDNS' and contains the following fields:

- Name:** ooooooo.engeniusddns.com
- DDNS alias:** [Empty text box] .engeniusddns.com
- Refresh Interval:** 24hr(s) (dropdown menu)

A 'Check Availability' button is located to the right of the DDNS alias field. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

EnViewer Finder: EnGenius Cloud Services >>



The screenshot shows a web interface for configuring DDNS. It has a title 'EnGenius DDNS'. There are three main sections: 'Name' with a text input field containing 'ooooooo.engeniusddns.com'; 'DDNS alias' with a text input field containing 'supermancam', a dropdown menu showing '.engeniusddns.com', and a 'Check Availability' button; and 'Refresh Interval' with a dropdown menu showing '24hr(s)'.

Default DDNS name

Each camera is distributed with a unique DDNS name and the default DDNS name is shown in the column. You can also find the default DDNS information on the QR code label inside the package.

DDNS Alias

You may give an rememberable for future access easily. For instance, you can use your nickname with cam as a combination; for example, supermancam. Then you need to check whether the name has been taken by someone else by clicking on **Check Availability** button. If the alias is not being used by others, then you can access the camera with both your default DDNS and the new alias DDNS (supermancam.engeniusddns.com).

Refresh Time

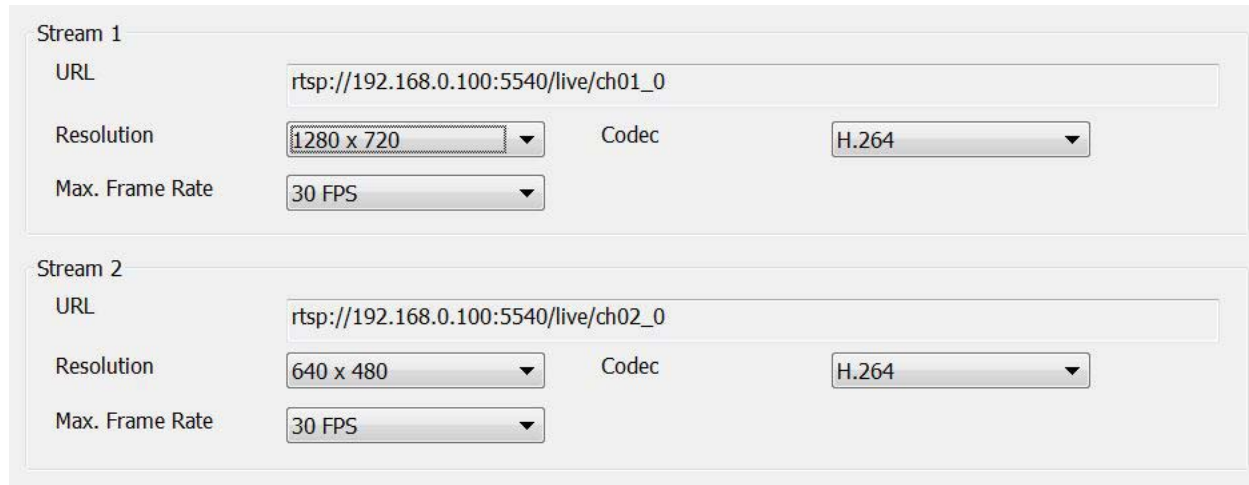
options are 3HRs, 6HRs, 9HRs, 12HRs and 24HRs. DDNS server needs to synchronize with your IP address often so that you can access your device over the Internet with DDNS name. Depends on your Internet Service provider, your WAN IP address lease time will be different. You can check with your local Internet Service provider for WAN IP address refresh time. The default setting is **24HRs** (which means DDNS server will check the synchronization **every 24 hours**). Normally, the default setting 24HR is fine for most cases.

EnViewer Finder >> Config

The screenshot shows the 'EnViewer Finder by EnGenius' configuration window. At the top, there is a navigation bar with icons for Home, Network, Cloud Service, Config (selected), Upgrade, Reset, and Reboot. Below this, there are two sections for configuring video streams. Stream 1 is configured with a URL of 'rtsp://192.168.0.100:5540/live/ch01_0', a resolution of 1280 x 720, a codec of H.264, and a maximum frame rate of 30 FPS. Stream 2 is configured with a URL of 'rtsp://192.168.0.100:5540/live/ch02_0', a resolution of 640 x 480, a codec of H.264, and a maximum frame rate of 30 FPS. At the bottom of the window, there is a checkbox labeled 'Check Live View now' which is currently unchecked. The bottom right corner contains three buttons: '< Back', 'Finish', and 'Cancel'.

Stream	URL	Resolution	Codec	Max. Frame Rate
Stream 1	rtsp://192.168.0.100:5540/live/ch01_0	1280 x 720	H.264	30 FPS
Stream 2	rtsp://192.168.0.100:5540/live/ch02_0	640 x 480	H.264	30 FPS

EnViewer Finder: Config >>



The screenshot displays the configuration interface for two video streams. Stream 1 is configured with the URL `rtsp://192.168.0.100:5540/live/ch01_0`, a resolution of 1280 x 720, a maximum frame rate of 30 FPS, and the H.264 codec. Stream 2 is configured with the URL `rtsp://192.168.0.100:5540/live/ch02_0`, a resolution of 640 x 480, a maximum frame rate of 30 FPS, and the H.264 codec. Each stream's settings are presented in a separate section with a title, a text input field for the URL, and dropdown menus for resolution, frame rate, and codec.

The camera supports two concurrent video streams simultaneously; by default, **Stream 1** serves for monitoring over browser while **Stream 2** serves mobile APP - EnViewer. However, you can switch the stream on both browser and EnViewer app manually.

In this Config page, you will be able to get the URL of each stream and configure the basic video settings for each stream before getting started.

URL

The URLs are provided for your reference. There are many 3rd party media player that supports RTSP streams. You can provide these URLs to those players and view the camera streams in real time.

Resolution

You can select the resolution for both stream according from the dropdown menu. However, it is suggested to keep the settings as default in regular network environment. As mentioned, the Stream 2 is the default setting for EnViewer app and the lower resolution (VGA, 640x480) will be recommended for smoother live streaming because mobile devices have smaller screens and are likely with limited network bandwidth than PCs/Laptops.

EnViewer Finder: Config>>

Codec

This setting determines what codec used for video compression. Please keep the default codec H.264 for optimized video quality. The compression method affects overall performance and file size. The options are reserved for advanced purposes only.

Max. frame rate

This setting determines how many frames are taken per second. This setting affects the quality of the video. High frame rate results in smoother video quality but it also generate larger video file size.

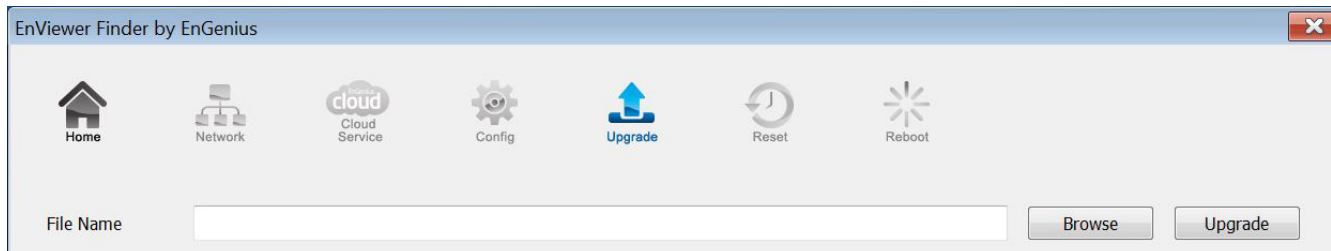


Please ensure that the option “Check Live View now” is ticked before hitting the **Finish** button. It will direct you to the camera Live View page for check the video streaming.

Click **Finish** when completed.

You should get familiar with your camera page. Please bookmark it to your favorite site so that you don't have to memorize the IP address the next time you want to login into the camera. Of course, you can also use your DDNS name to access the camera management page. Either way works fine.

EnViewer Finder >> Upgrade



EnViewer Finder also allows you to upgrade your camera firmware. The product feature may improve over time, you may check EnGenius official website for the latest firmware. New firmware may contain bug fixes or feature improvements which is beneficial to you. You need to download the latest firmware file to your local computer first.

Click **Browse** and select the firmware file you downloaded.

Click **Update** to proceed upgrade process.

It may take a moment for the upgrading process, please wait patiently.

WARNING: Do not turn off the device in the middle of upgrade process. Terminating the device during the process will damage the device and may cause the device to fail.

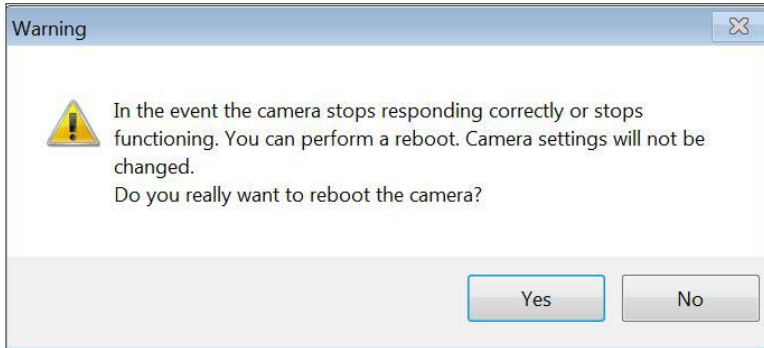
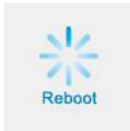
EnViewer Finder >> Reset



You can **reset** the camera to its factory default state and your settings on the camera will be erased.

Note: It will take a while for the camera to come back again. Therefore, the camera will not appear on the camera list if you rescan the network before it resets to default and boots up.

EnViewer Finder >> Reboot



You can **reboot** the camera on EnViewer Finder if the camera stops responding for unknown reason.

Click on **Yes** to proceed.

Note: It will take a while for the camera to come back on again. Therefore, the camera will not appear on the camera list if you rescan the network before it boots up.

Web Browser

You can use web browser on the management station to access the camera by entering IP address or DDNS of your camera. DDNS works only if your gateway or router is already connected to the Internet. Please refer to the previous section **EnViewer Finder: EnGenius Cloud Services** if you do not know the IP address or DDNS of your camera.

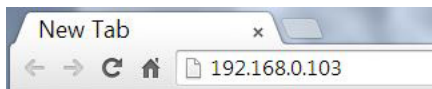
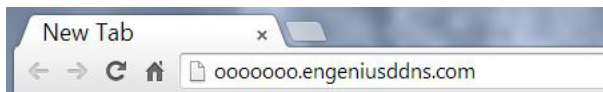
For this example, we have our DDNS and IP address as follows:

DDNS: 0000000.engeniusddns.com

IP Address: 192.168.0.101

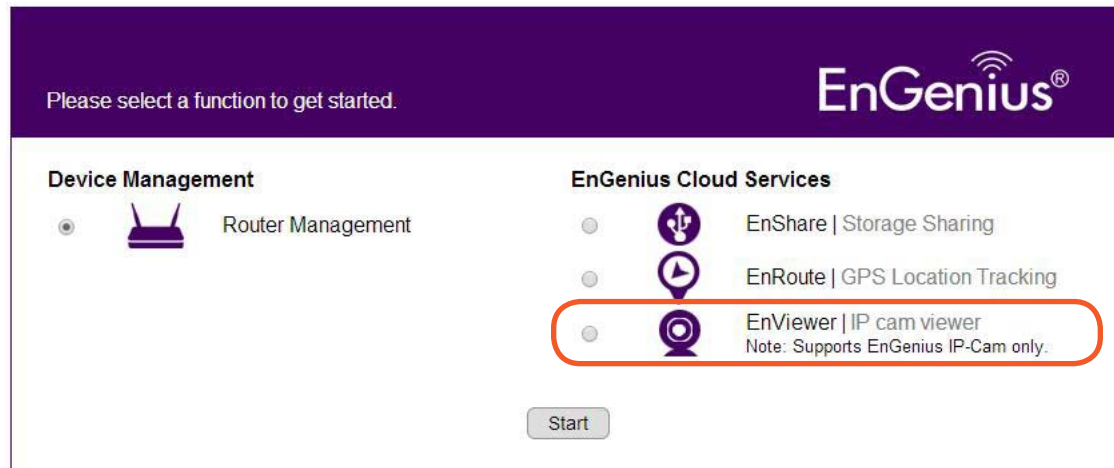
If you are using EnGenius **IoT Gateway** or **Intelligent Router**, please proceed to **Manage camera over EnGenius Gateway/Router** chapter.

If not, please proceed to **First Time Basic Setting** chapter for more detail guide on camera initial settings.



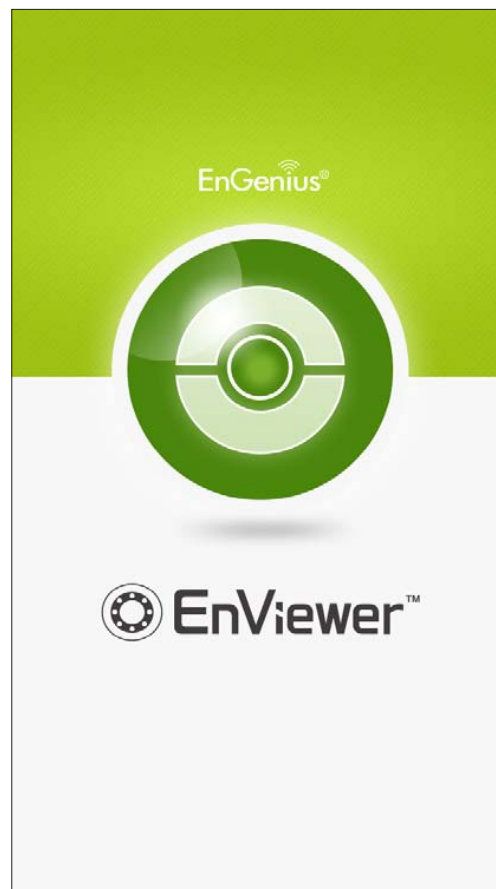
EnGenius Gateway/Router

If you are using EnGenius IoT Gateway or Intelligent Router or, you can manage the camera through the gateway/router Graphic User interface (GUI). The benefit of this is that you can manage both the gateway/router and the camera on a single integrated user interface. Please refer to [Manage camera over EnGenius Gateway/Router](#) section for detail.



Manage using Smartphone or Tablet

You can manage your camera over smartphones or tablet using the free EnGenius APP **EnViewer**. EnViewer currently supports the two most popular Android and iOS platforms. Please search the keyword “EnViewer by EnGenius” in Google Play if you are using Android-based devices or in APP Store if you are using iPhone or iPad. For more detail on its usage, please refer to the chapter **EnViewer APP**.



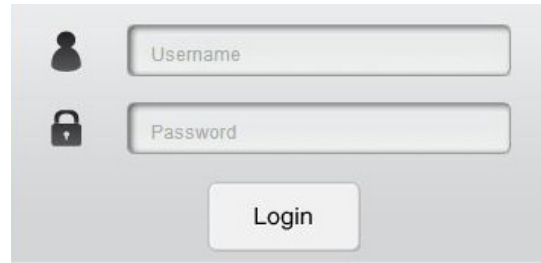
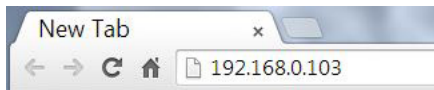
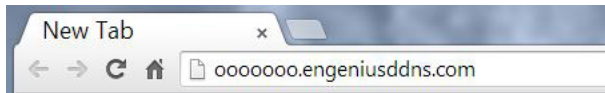
Chapter 4

Basic Settings



Basic Settings

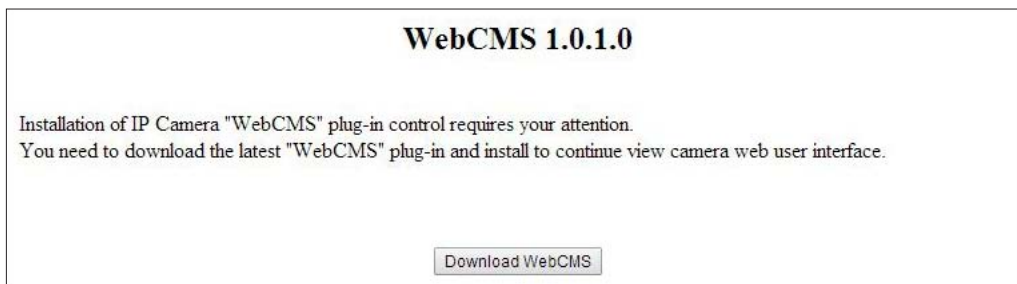
Open your browser and type in the camera IP (e.g. 192.168.0.103) address or the given DDNS name printed on the QR code label inside the package (e.g. 0000000.engeniusddns.com) using a regular web browser.



If you have not changed the password of admin in EnViewer Finder utility, enter the default username **admin** and password **admin**. Click **Login** to proceed.

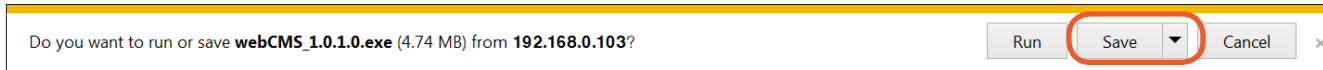
For the first time of login or when there is newer version available, you will be informed to download and install **“WebCMS”** plug-in for your browser. Please click on **“Download WebCMS”** to start downloading (you will be required to have Internet connection on your gateway/router). WebCMS enables browsers to support camera live view feature. Don't worry if you are prompted with a different version number because the software upgrade from time to time.

Note: The WebCMS supports Windows Operation System.

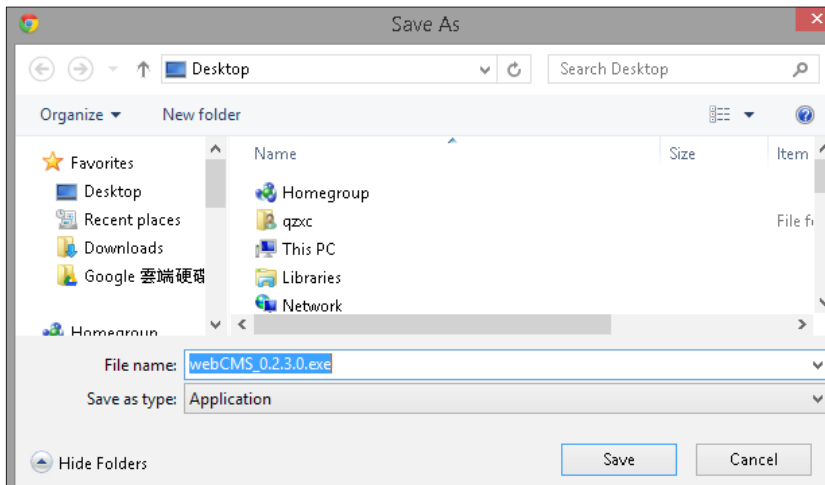


If prompted with the following question, click on **Save**.

Note: The interface may be slightly different between browsers. Here, Internet Explorer is shown as example.



Save the file to your computer.



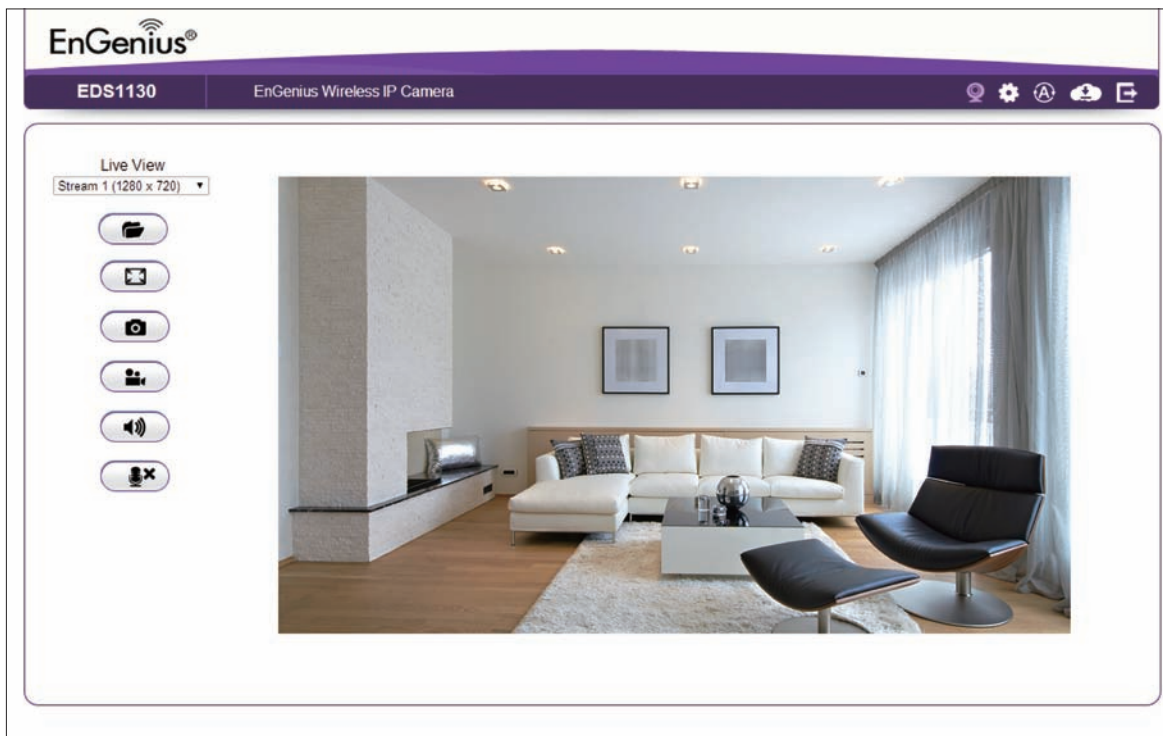
Once download is completed, you **MUST close all the browsers** before install WebCMS.



Double click on **WebCMS** to install the program. You may not have noticed, the installation is very fast, it only takes a few seconds for WebCMS to be installed.


When installation is completed, open the browser and login into the camera again. You should be able to see the camera viewer in live as shown below. If you do not see the viewer that means you did not install WebCMS properly or try login using other browsers.

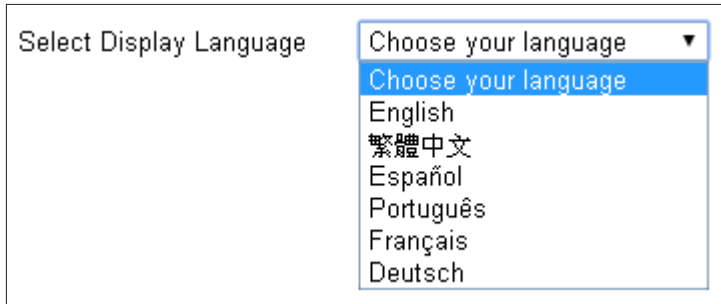
NOTE: If you are seeing grey color in the viewer, it is because the camera has detected insufficient of light in the room and enabled night vision mode automatically. If you point your camera to a brighter space you should be able see it switched to normal color mode. Try a few places to get a feeling of how it works. You may hear the sound “click” from the camera when night vision is switched on and off if you listen closely.



Congratulations, you are now ready to proceed to further camera settings!

Setting the Interface Language

First of all you may want to change the user interface language. The default factory language is English. To change the language, click  on the right side of upper navigation panel to make the change. On the language list, click to select the one you are familiar with. The user interface will refresh automatically to display in chosen language.

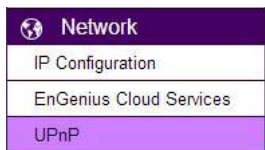


Changing the Camera Name

On the management page, click  on the right side of upper navigation panel to access the configuration Main Menu.

On the Main Menu, select **Network** → **UPnP**

Then, you may want to assign the camera Host Name with proper naming for better identification if you have several cameras at the same time. Meaningful names such as living room, kitchen, baby room or any other descriptions you find suitable to describe the space being monitored.



Select **Network** → **UPnP**

A screenshot of the 'UPnP Settings' configuration page. It features a text input field for 'Host Name' containing the value 'EDS1130'. Below this are two rows of radio buttons: 'UPnP' with 'Enable' selected and 'Disable' unselected; and 'UPnPc' with 'Enable' selected and 'Disable' unselected. At the bottom right of the form are two buttons: 'Apply' and 'Cancel'.


Hostname: Enter a new name into this field

Click **Apply** to change the camera name

Setting the Camera Time

It is crucial to setup camera time properly so that scheduling can be arranged and events be recorded with accurate date and time.

On the Main Menu, select **System** → **Time**.


 System
Status
Service Port
Time
PC Storage Path
Firmware
Backup
Reset to Default / Reboot
Language

Please refer to **Chapter 5** to learn more about **Time Setting**.

Setting the PC Storage Folder

The Storage Folder is the location where media files will be placed.


On the Main Menu, select **System → PC Storage Path**

 System
Status
Service Port
Time
PC Storage Path
Firmware

Please refer to **Chapter 5** for detail setting.

Adding a User Account

On the Main Menu, select **User Management → User Account**


 User Management
User Account
Push Message Mobile List

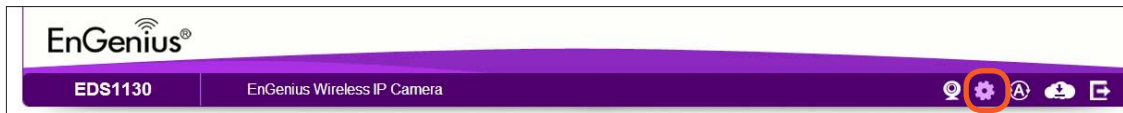
Please refer to **Chapter 5** for User Management for adding a User.

Wireless Setting

Please skip this step if you only use wired setup for your camera.

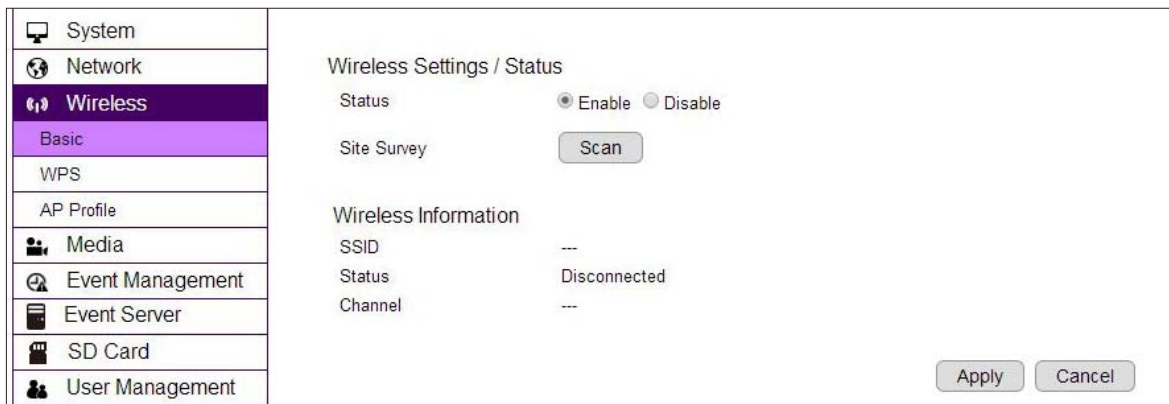
Ensure your home gateway/router supports wireless capability and is enabled.

On the management page, click  to access the configuration **Main Menu**.



On the other hand, we also need to enable camera's wireless feature; please check again to ensure you have wireless enabled.

On the Main Menu, select **Wireless → Basic**



Enable wireless by choosing **Enable** option.

Click on **Scan** to search for existing wireless access points (APs).

When prompted with Site Survey window, click on **Refresh** if you do not find your AP on the list.

On the site list, choose your preferred AP and then click **Add to AP Profile**.

Select	No.	Channel	SSID	BSSID	Encryption	Authentication	Signal (%)	Mode
<input type="radio"/>	1	3	SNIPCAM24	00:02:6F:FE:4A:1C	TKIPAES	WPA2PSK	99	11b/g/n
<input type="radio"/>	2	6	SENAOWL	00:13:33:00:03:01	AES	WPA2PSK	31	11b/g/n
<input type="radio"/>	3	11	SNADSL	00:02:6F:CA:E6:5A	WEP	AUTOWEP	18	11b/g

Then, on the AP Profile Settings window, please check if the security settings are correct. Please review the settings: **Encryption, WPA type, and Pre-Shared Key type**. They are automatically detected. Normally, you only need to provide the Pre-Shared Key (password). However, you can still change the settings if they do not match with the actually AP wireless security settings.

AP Profile Settings	
Network Name (SSID) :	<input type="text" value="SNIPCAM24"/>
Encryption :	<input type="text" value="WPA pre-shared key"/>
WPA Type :	<input checked="" type="radio"/> WPA(TKIP) <input type="radio"/> WPA2(AES)
Pre-Shared Key Type :	<input type="text" value="Passphrase"/>
Pre-Shared Key :	<input type="text" value="password"/>
<input type="button" value="Save"/>	

Enter your Pre-Shared Key and press **Save** to complete the setting.

Please wait for a moment for the setup to complete.

Module is reloading, please wait 10 seconds

While waiting, you can remove RJ-45 Ethernet Cable from the camera now. It may take a moment for the camera to detach from wired network and switch to the newly established wireless connection with the chosen AP (your gateway/outer).

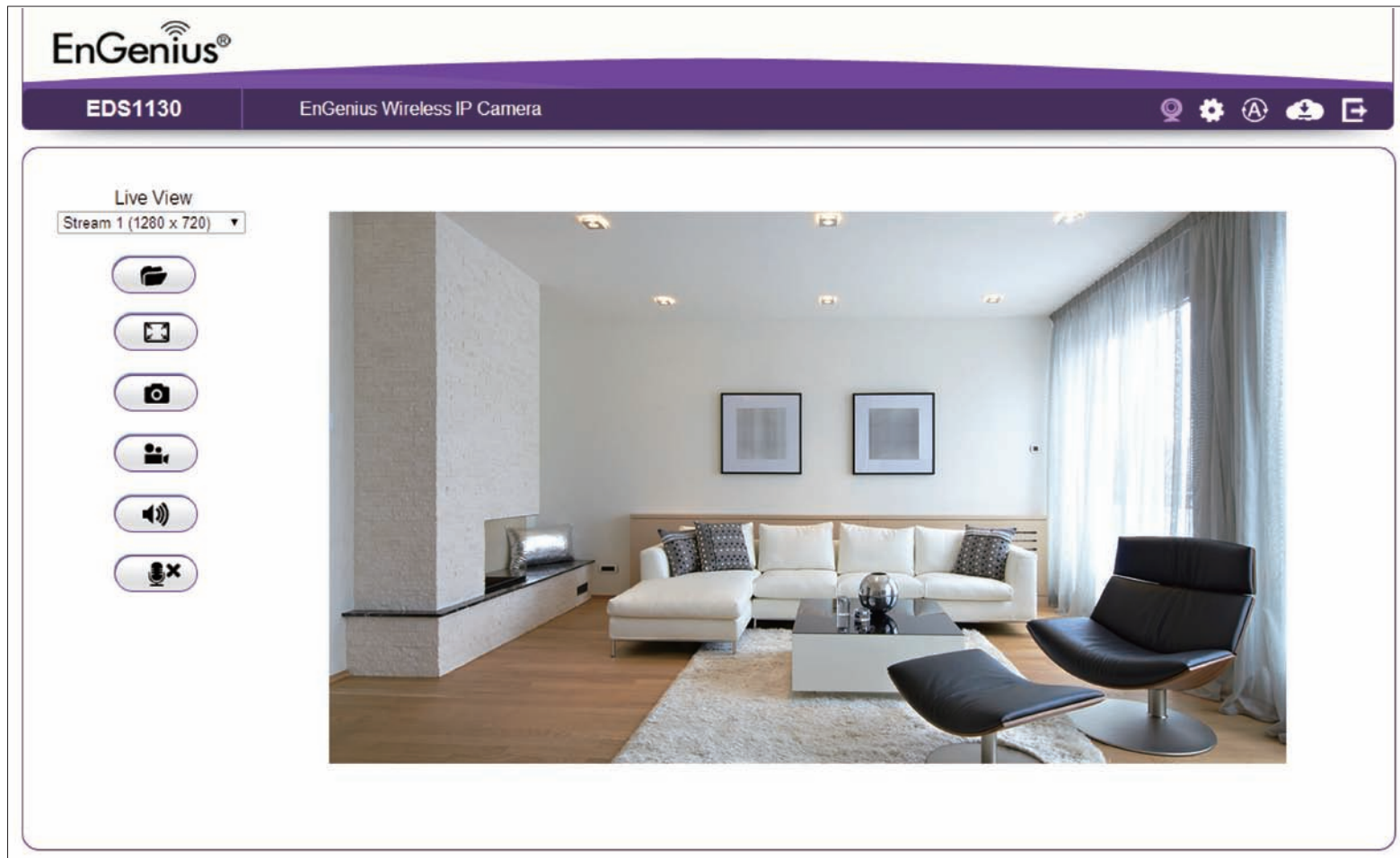
To check if the connection is successful, you can verify it by login into your camera again. In case if the camera is still not accessible, please check your gateway/router again see whether your camera is connected. Also, check the security setting again just for sure.

Chapter 5

User Interface

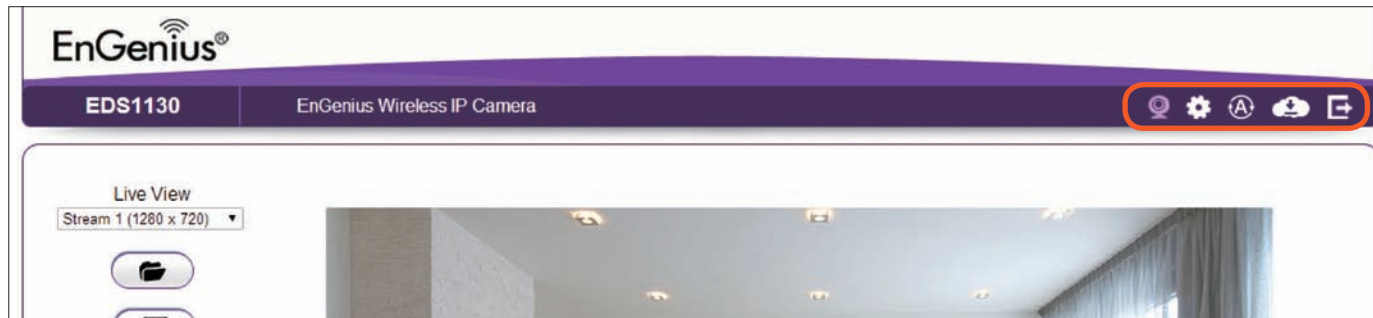


Camera manager page allows you to view and configure the camera at real time. This chapter will introduce all supported features and detail configurations.



Navigation Panel

The **Navigation Panel** is located at the upper right corner of the page. Since there are two different user levels (Administrator and Viewer), the functions shown on the Navigation Panel also vary accordingly. For more information about user account, please refer to **Chapter 5 - User Management** for more details.



Administrator has full control of all the camera settings.

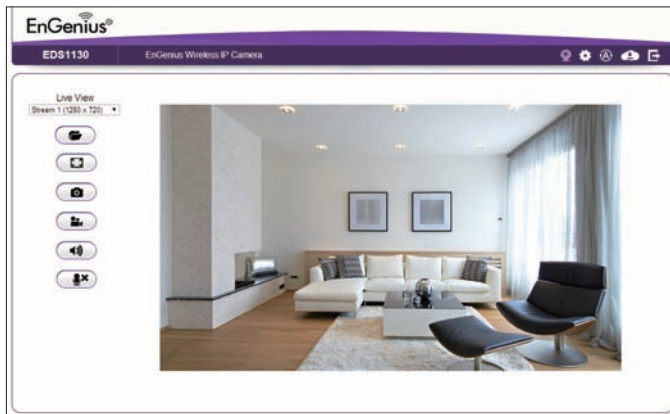


The **viewer** only has camera viewer features.

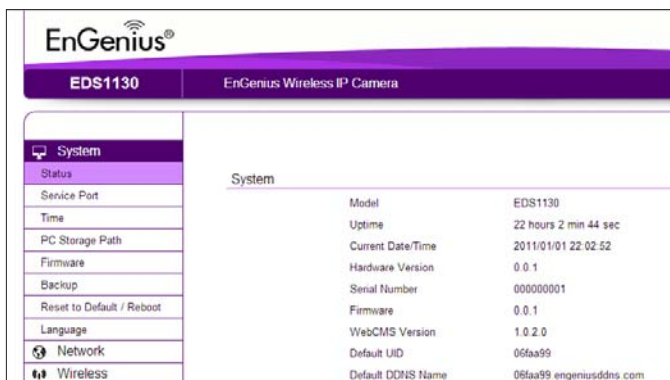
The detail description is as follows



Live View: Switch the management page to camera viewer within which snapshots or video clips can be taken at real time.



Settings: Switch the management page to camera setting. Please refer to Main Menu section for detail camera settings.





Language: Allows user to change management language setting.



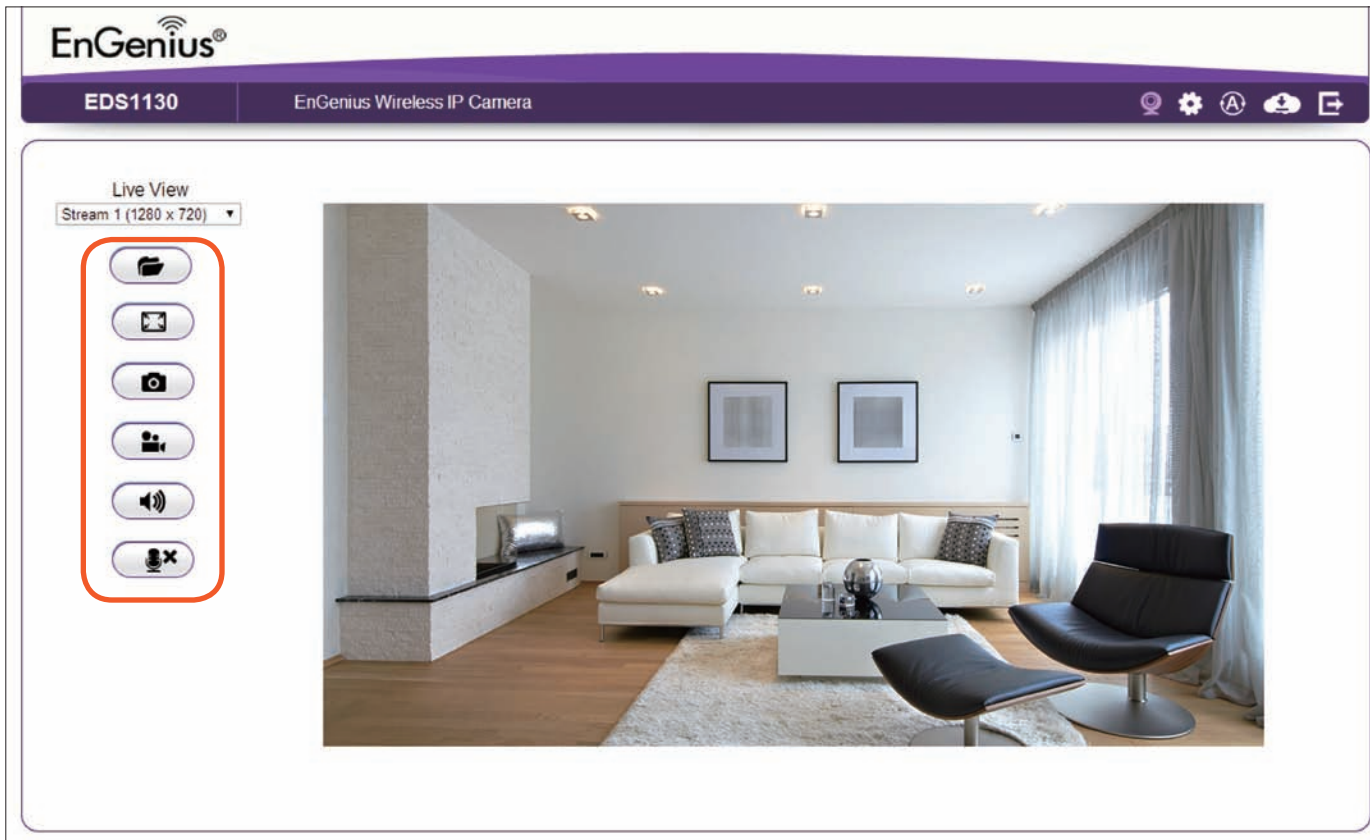
EnGenius Cloud Service: Deliver the latest EnGenius Cloud Service information.



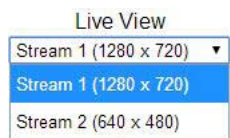
Logout: Exit the user interface.

Live View Settings

The **Navigation Panel** is located at the upper right corner of the page. Since there are two different user levels (Administrator and Viewer), the functions shown on the Navigation Panel also vary accordingly. For more information about user account, please refer to **Chapter 5 - User Management**.



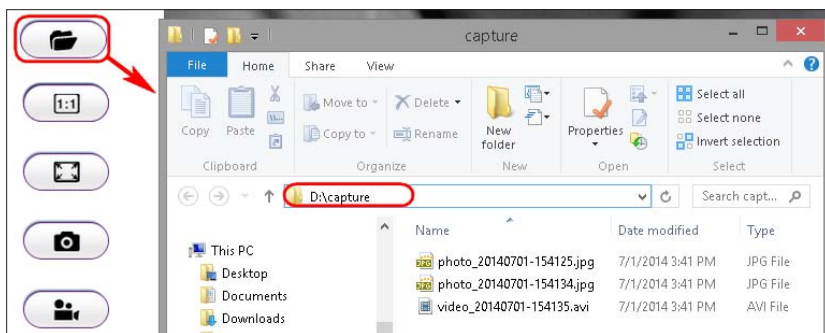
The **Live View Management** menu is located at the left side of the page.



Live View: There are two streams running concurrently: Stream 1 (1280 x 720) and Stream 2 (640x480). By default, Stream 1 has the higher resolution than stream 2 and Stream 2 is applied to serve lower resolution for mobile devices use at remote. You can preview each stream at real time by selecting it from the list.



Open Folder: This opens the local folder on PC where the real time captured images and video clips are stored. You may change the storage folder path at **Main Menu**→**System**→**PC Storage Path**.





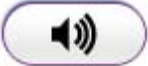



Note: To play the recorded video, it is suggested to use **VLC media player** that supports most of the video type.



Full Screen: This switch will hide the browser and expand the view to full screen. You can press ESC button to cancel the full screen mode.




Snapshot: This button takes a snap-shot on the real time view and store the image in the local folder.

	<p>Recording: Toggle this button to start recording movie clip at real time. Click on the button to start recording. Please note that when icon changed to purple , the camera recording in process and REC is marked on the upper right corner. To stop recording, simply click the button again.</p>
	<p>Speaker: Toggle this button to turn speaker ON and OFF. The default setting is ON, click the button to turn it off; the icon should change to  to signify off state.</p>
	<p>Microphone: Toggle this button to turn microphone ON and OFF. The default setting is OFF, click the button to turn it ON; the icon should change to  to signify ON state. When microphone is turned off, there won't be any audio data recorded during recording. If audio is not important for your application, you are advised to turn it off to reduce the recording file size.</p>

Main Menu

Only Users with administrator authority can get access to Main Menu. Guest Viewers do not have the privilege of changing camera settings.



To get access to the Main Menu, click on the **Settings** icon. 

The Main Menu is shown below.

System		
Model		EDS1130
Uptime		22 hours 21 min 22 sec
Current Date/Time		2011/01/01 22:21:39
Hardware Version		0.0.1
Serial Number		000000001
Firmware		0.0.1
WebCMS Version		1.0.2.0
Default UID		06faa99
Default DDNS Name		06faa99.engeniustdns.com

Network		
Attain IP Protocol		Dynamic IP Address
IP Address		10.0.174.73
Subnet Mask		255.255.254.0
Default Gateway		10.0.175.254
MAC Address		00:7F:03:90:55:66
Primary DNS		10.0.200.182
Secondary DNS		10.0.200.183

Video		
-------	--	--

System

System
Status
Service Port
Time
PC Storage Path
Firmware
Backup
Reset to Default / Reboot
Language

The System setting menu consists of system related configurations.

System >> Status

Status Page displays the overview of System, Network and Video information on the page, including current time, firmware version, DDNS name, IP address ...etc.

System	
Model	EDS1130
Uptime	1 days 20 hours 16 min 11 sec
Current Date/Time	2014/08/07 07:39:13
Hardware Version	0.0.1
Serial Number	147277136
Firmware	7.31.1209
WebCMS Version	1.0.1.0
Default UID	1dd3614
Default DDNS Name	1dd3614.engeniusddns.com
Network	
Attain IP Protocol	Dynamic IP Address
IP Address	192.168.1.110
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
MAC Address	88:DC:96:22:C9:EB
Primary DNS	192.168.1.1
Secondary DNS	---

Video	
Stream 1	
Resolution	1280 x 720
Video Codec	H.264
Frame Rate	30 fps
Bit Rate (Ethernet)	4 Mbps
Bit Rate (Wi-Fi)	1 Mbps
Audio Codec	G711U
Stream 2	
Resolution	640 x 480
Video Codec	H.264
Frame Rate	30 fps
Bit Rate (Ethernet)	1 Mbps
Bit Rate (Wi-Fi)	1 Mbps
Audio Codec	G711U

System >> Service Port

The page provides the default service port information of HTTP, RTSP, and EnViewer mobile app.

Warning: This section is only reserved for advanced users who wants to keep certain ports for other particular services. Changing the ports will result in unexpected result. Unless necessary, please keep the default setting.

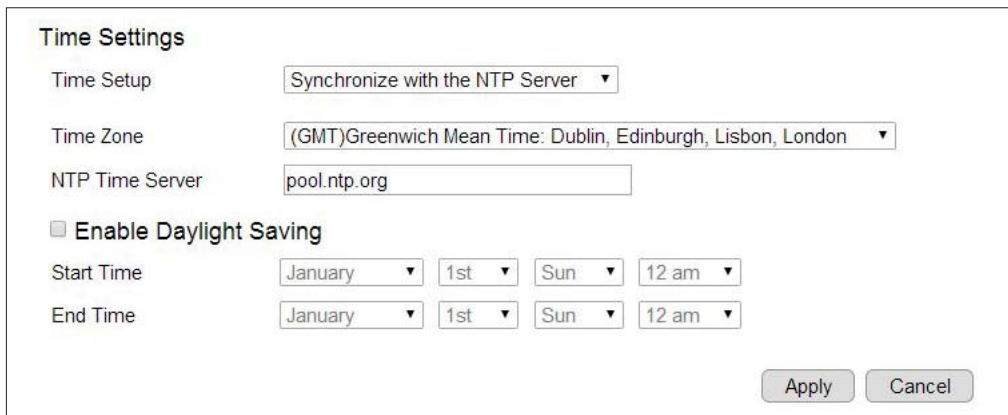
Port Settings

Note: We recommend that you keep the default settings to ensure that the service to function properly.

HTTP Port	<input type="text" value="80"/>
HTTP External Port	<input type="text" value="50000"/>
RTSP Port	<input type="text" value="554"/>
RTSP External Port	<input type="text" value="50091"/>
EnViewer Port	<input type="text" value="9091"/>
EnViewer External Port	<input type="text" value="50055"/>

System >> Time

Like any other surveillance system, time is essential because we want to keep track of the time of the events recorded or detected by the camera. By default, the camera is connected to a public time server (pool.ntp.org) and its time is always synchronized with the server over the Internet. Normally, you only need to change the **Time Zone**. Choose the one that matches your location. Leave the other setting as default should be fine. Setting the wrong time server or time zone will result in inaccurate scheduling and time stamp.



The screenshot shows a 'Time Settings' dialog box with the following fields and controls:

- Time Setup:** A dropdown menu set to 'Synchronize with the NTP Server'.
- Time Zone:** A dropdown menu set to '(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London'.
- NTP Time Server:** A text input field containing 'pool.ntp.org'.
- Enable Daylight Saving:** A checkbox that is currently unchecked.
- Start Time:** Four dropdown menus for month (January), day (1st), day of the week (Sun), and time (12 am).
- End Time:** Four dropdown menus for month (January), day (1st), day of the week (Sun), and time (12 am).
- Buttons:** 'Apply' and 'Cancel' buttons at the bottom right.

Time Setup: select how the camera obtains the current time

Time Zone: select time zone for the camera

NTP Time Server: enter the domain name or IP address of an NTP server.

Enable Daylight Saving: Tick to enable or disable daylight saving time if applicable.

Start Time: select the date and time when daylight saving time starts.

End Time: select the date and time when daylight saving time ends.

Click **Apply** to save the settings or **Cancel** to discard changes.

System >> PC Storage Path

Select the folder path that you prefer to keep the snapshot and the video clips recorded. You could also choose the image and video type that is ideal for you to save.



The screenshot shows a dialog box titled "Recording / Snapshot Path". It contains the following elements:

- Folder Path:** A text input field containing "C:\Users\Eddi\Desktop\Link" and a "Browse" button to its right.
- Snapshot File Type:** A dropdown menu currently set to "JPG".
- Recording File Type:** A dropdown menu currently set to "AVI".
- Note:** A text label stating "Note: The video recording and snapshot will be stored in the target folder."
- Buttons:** "Apply" and "Cancel" buttons located at the bottom right of the dialog.

Folder Path: click "**Browse**" to decide the storage path

Snapshot File Type: select the file type for your snapshot, supporting type are JPG, PNG & BMP.

Recording File Type: select the file type for your snapshot, supporting type are AVI and MP4

Note: If file size is the concern to you, please refer to the compression rate below.

- Image: JPG > PNG > BMP (from High to Low)
- Video: MP4 > AVI (from High to Low)

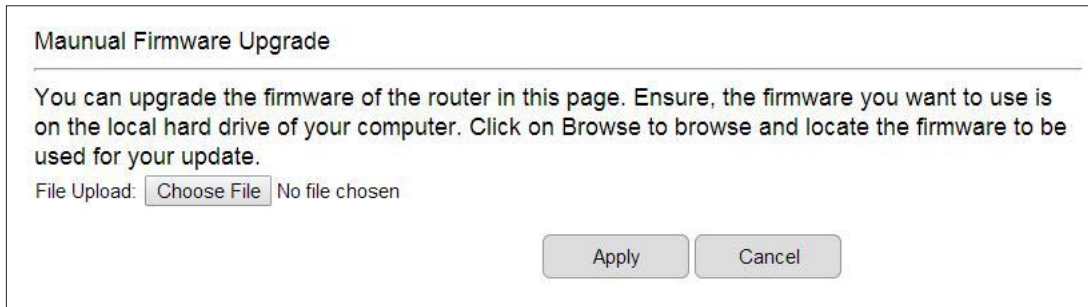
To make change, click **Apply** to save the settings.

System >> Firmware

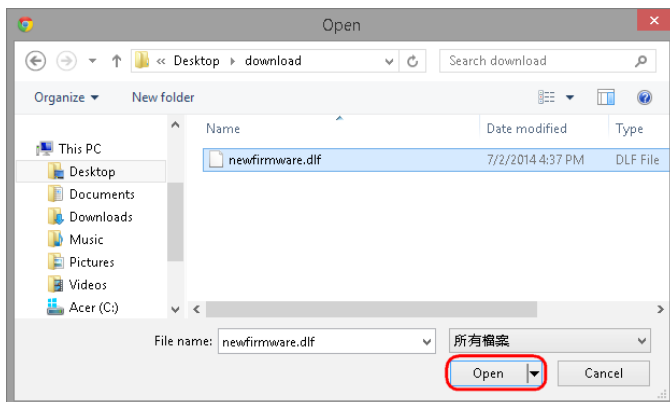
The product feature may improve over time, you can choose to upgrade the firmware manually or enable the auto firmware upgrade to keep informed the latest update.

Manual Firmware Upgrade:

You may check EnGenius official technical support site <http://www.engeniusnetworks.com/support/> to get the latest firmware. New firmware may contains bug fixes or feature improvements which is beneficial to you. You need to download the latest firmware file to your local computer first. Click Browse (for Choose File) and select the firmware file to start upgrade firmware.



Select the downloaded new firmware then click on **Open**.



Click **Apply** to start upgrading the firmware.

Maunual Firmware Upgrade

You can upgrade the firmware of the router in this page. Ensure, the firmware you want to use is on the local hard drive of your computer. Click on Browse to browse and locate the firmware to be used for your update.

File Upload: No file chosen

It may take a moment for the upgrading process, please wait patiently.

WARNING: Do not turn off the device in the middle of upgrade process. Terminating the device during the process will damage the device and may cause the device to fail.

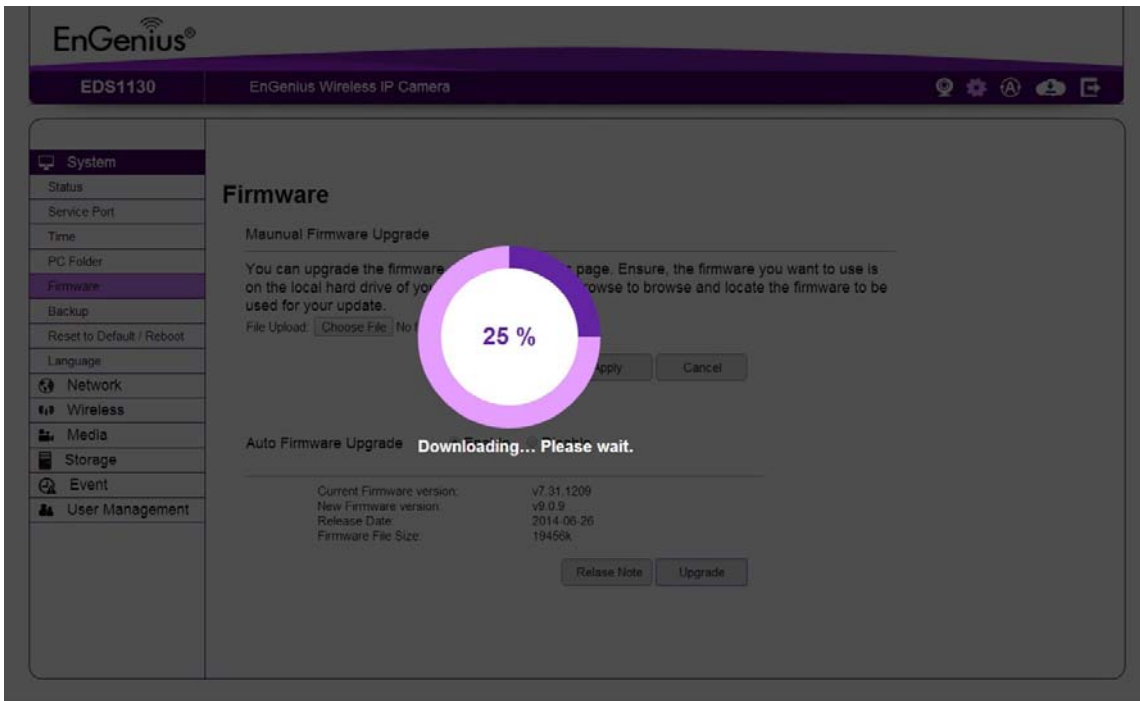
Auto Firmware Upgrade:

Enable the Auto Firmware Upgrade function, and the latest update firmware information will be shown. Click **Release Note** to check the update details and click **Upgrade** to proceed the firmware upgrade immediately.

Auto Firmware Upgrade

Enable Disable

Current Firmware version:	v7.31.1209
New Firmware version:	v9.0.9
Release Date:	2014-06-26
Firmware File Size:	19456k



WARNING: Do not turn off the device in the middle of upgrade process. Terminating the device during the process will damage the device and may cause the device to fail.

Emergency Backup Mode

If your firmware upgrade failed, you may enter the Emergency Backup Webpage.

Enter the IP address: **192.168.99.9** to the browser to enter Emergency Backup page.



Note: You have to configure PC/Notebook IP address to 192.168.99.8 manually.

Click the **Browse** button and navigate to the location of the upgrade file and then click **Upload**.

A screenshot of a web interface titled "Firmware Upgrade System". It features a "Firmware Image:" label followed by a text input field and a "Browse..." button. Below the input field is an "Upload" button. A red box highlights the "Browse..." button, and another red box highlights the "Upload" button. Below the form is a "NOTICE !!" section with a bullet point: "• If you upload the binary file to the wrong TARGET, the device may not work properly or even could not boot-up again."A screenshot of a web interface titled "Device is Upgrading the Firmware". It displays "8 %" in red text. Below this is a "NOTICE !!" section with a bullet point: "• Don't turn the device off before the Upgrade jobs done !".

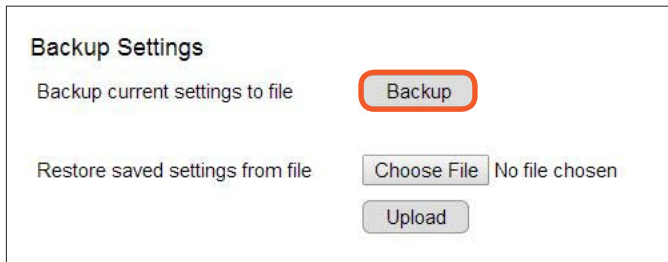
Wait for firmware upgrade and reboot the device.

You can access the device again.

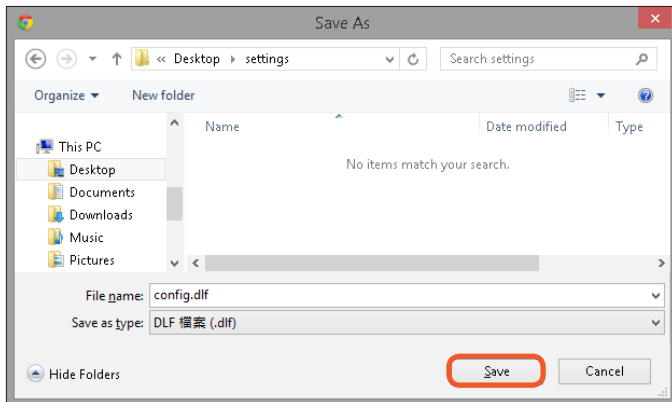
System >> Backup

There are times that you may want to test new settings or keep different settings for different application scenarios. You can do the backup by following the steps below.

Click **Backup** to initiate setting backup process.

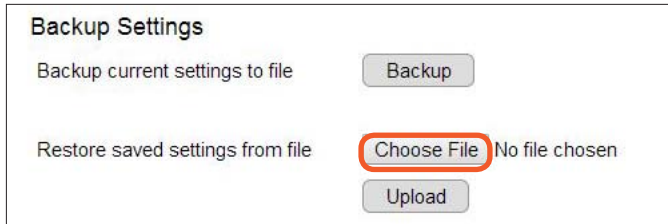


Click **Save** to store the file to the chosen location.

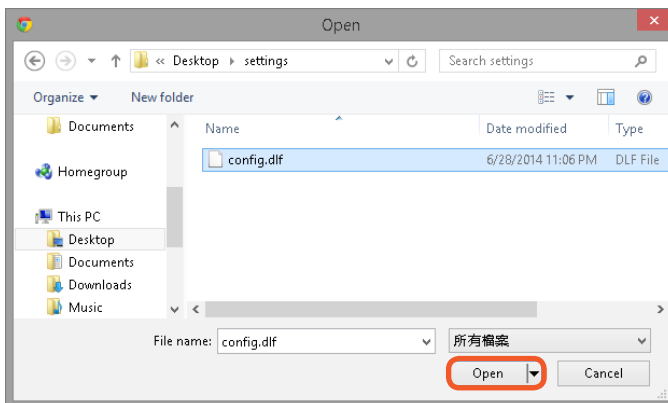


Restore Saved Settings from file

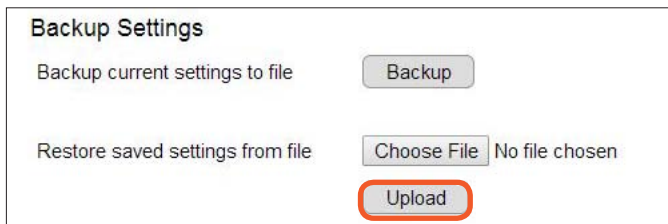
Click on **Choose File** to select the backup file you are going to restore.



Choose the configuration file and click on **Open**.



Click on **Upload** to start storing process.



It may take a moment for the uploading process, please wait patiently.

WARNING: Do not turn off the device in the middle of the upload. Terminating the device during the process will damage the device and may cause the device to fail.

System >> Reset to Default / Reboot

There may be times that you feel like to restore the settings to factory default. To reset to default click on the button **Reset to Default**.

If the camera stop responding for some reasons or acting abnormally, you can choose to **Reboot the Device**. If the device still does not recover to normal operation, please consider to perform a hard reset (unplug and re-plug the power adapter).

To proceed **Reset to Default** will erase current settings and restore the device to its original factory settings.
Note: We suggest you to back up current settings before running the reset.

In case that the system stops responding or functioning incorrectly, you can perform **Reboot the Device** to restart. The current settings will be kept without change.

System >> Language

The default User Interface language is English, you can change the language with just a mouse click.

On the language list, click to select the one you feel comfortable with from the list. The user interface will refresh automatically with your chosen language.

Language Settings

Select Display Language

English

Choose your language

English

繁體中文

Español


Português

Français

Deutsch

Network

The Network setting menu consists of Network related configurations.

 Network
IP Configuration
EnGenius Cloud Services
UPnP

Network >> IP Configuration

Each camera should be assigned with an IP address in the network for identification. **IP Configuration** setting allows you to change the method with which the camera obtain its IP address. The default setting **Dynamic IP (DHCP)** is applicable to most of the application scenario. However, advanced users can also change to **Static IP** or **PPPoE** whichever suits the purpose.

IP Configuration Settings

Mode

MAC Address

Note: We recommend that you keep the default settings to ensure that the service to function properly.

Mode: Static IP, PPPoE and Dynamic IP (DHCP)

Dynamic IP (DHCP) ▼
Static IP
PPPoE
Dynamic IP (DHCP)

Static IP

The screenshot shows the 'IP Configuration Settings' form with the 'Mode' dropdown set to 'Static IP'. The form includes input fields for 'IP Address', 'IP Subnet Mask', 'Default Gateway', 'Primary DNS', and 'Secondary DNS'. At the bottom right, there are 'Apply' and 'Cancel' buttons.

If your network requires Static IP, you need to specify the detail IP settings similar to above. Please note that, if you are managing your camera in local network similar to the example shown above, you will need to configure your management PC/Laptop under the same domain.

PPPoE

The screenshot shows the 'IP Configuration Settings' form with the 'Mode' dropdown set to 'PPPoE'. The form includes input fields for 'Username', 'Password', and 'Service Name'. At the bottom right, there are 'Apply' and 'Cancel' buttons.

If you are connecting to the Internet without going through your home gateway/router, you can connect the camera directly to your modem (given that you are using PPPoE for your Internet service). Please consult your local network service provider for more detail. Basically, the PPPoE setting is exactly the same as what your home gateway/router. You need to provide at least **Username** and **Password** to get access.

Dynamic IP (DHCP)

The screenshot shows the 'IP Configuration Settings' form with the 'Mode' dropdown set to 'Dynamic IP (DHCP)'. The form includes an input field for 'MAC Address' with the value '88:DC:96:22:C9:E4'. Below the input field, there is a note: 'Note: We recommend that you keep the default settings to ensure that the service to function properly.' At the bottom right, there are 'Apply' and 'Cancel' buttons.

MAC Address: Normally, the MAC address is obtained automatically. To change the setting, type in the MAC address into the field.

Click **Apply** when configuration is done to activate new settings.

Network >> EnGenius Cloud Services

You must **Enable** EnGenius Cloud first and then choose the **Type**.


EnGenius Cloud Settings	
Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Type	Using Default UID / EnGenius DDNS Service ▼
Default UID	0000000
UID Status	Connected
Default DDNS Name	0000000.engeniusddns.com
Alias DDNS Name	<input type="text"/> .engeniusddns.com Availability Check
Refresh Interval	24 hr(s) ▼
DDNS Status	Connected
Apply Cancel	

A key part about EnGenius Cloud Service is DDNS. Dynamic DNS (DDNS) is a type of DNS that works with dynamic IP address. DDNS keeps update its mapping regularly and ensures a consistent matching so that your device can be accessed over the Internet using a fixed DDNS name. You can either use the default EnGenius DDNS Service or other 3rd party Service you prefer.

- Using Default UID / EnGenius DDNS Service ▼
- Using Default UID / EnGenius DDNS Service
- Using Other DDNS Service

Information for APP - EnViewer

You can add camera by scanning the QR Code or manually enter the device data.



Model: EDS1130
Unique ID (UID): 0000000
DDNS: 0000000.engeniusddns.com
MAC: 00:11:AA:BB:CC:DD

Users are recommended to use the free EnGenius DDNS service that the address is printed on the QR Code label inside the packaging. This is because ISP often leases dynamic WAN IP address that changes from time to time. DDNS domain name will always be the same even if the WAN IP address changes. The domain name can also be found on your **System** → **Status** page. As shown below, the DDNS domain name used for the example is 0000000.engeniusddns.com.

EnGenius Cloud Settings

Status Enable Disable

Type

Default UID

UID Status

Default DDNS Name

Alias DDNS Name .engeniusddns.com

Refresh Interval

DDNS Status

Default UID: Each device is distributed with an exclusive unique identification (UID). You can find the default UID shown here.

UID Status: when working properly, it should show “Connected”.

Default DDNS: Each device is distributed with an exclusive DDNS. You can find the default DDNS shown here.

Alias DDNS Name: You may find that your DDNS is too difficult to remember. EnGenius provides free DDNS name registration as long as the alias is not yet been taken other EnGenius product users. You can check the availability by clicking on the button **Availability Check** for verification. For example, if “superman” is available and when the setting is activated, both DDNS name “**superman**.engeniusddns.com” and “**0000000**.engeniusddns.com” can be used to access this camera.

Refresh Time: options are 3HRs, 6HRs, 9HRs, 12HRs and 24HRs. DDNS server needs to synchronize with your IP address often so that you can access your device over the Internet with DDNS name. Depends on your Internet Service provider, your WAN IP address lease time will be different. You can check with your local Internet Service provider for WAN IP address refresh time. The default setting is **24 HRs** (which means DDNS server will check the synchronization every 24 hours). Normally, the default setting 24 HRs is okay for most cases.

DDNS Status: when working properly, it should show “Connected”.

Note: DDNS will only work only if your gateway/router is connected to the Internet. If gateway/router is not connected to the Internet, your DDNS status will show “Disconnected”.

EnGenius Cloud Settings

Status Enable Disable

Type

Default UID oooooooooo

UID Status Connected

Server Address

Host Name

Username

Password

Apply Cancel

If you prefer using third-party DDNS server, you can choose this option.

The current supported third-party DDNS services are 3322(qdns), DHS, DynDNS, ZoneEdit and CyberGate. Choose the one that best suits your purpose. You should provide your account information so that the camera can communicate with the selected DDNS vendor.

Your third-party DDNS service account credential should include the following information.

Host Name: please enter your registered Host Name

Username: please enter your registered Username

Password: please enter the password for this

Click **Apply** when configuration is done to activate new settings.

Network >> UPnP

Universal Plug and Play (UPnP) allows the other device to detect the presence of the camera so that communication become possible. You should enable UPnP if you wish your camera to be recognized by your home gateway/router. UPnP Traversal makes camera remote access over the Internet possible using camera DDNS name. You won't be able to access the camera if you disable UPnP feature. Please keep it **Enable** if you are not sure.

Hostname: You may rename your camera to other meaningful names such as living room, kitchen, baby room or any other descriptions you find suitable to describe the space being monitored.

UPnP: Enable or Disable

UPnPc: Enable or Disable



UPnP Settings

Host Name

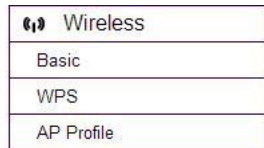
UPnP Enable Disable

UPnPc Enable Disable

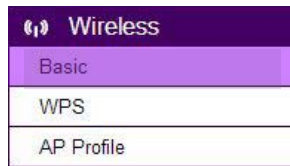
Click **Apply** when configuration is done to activate new settings.

Wireless

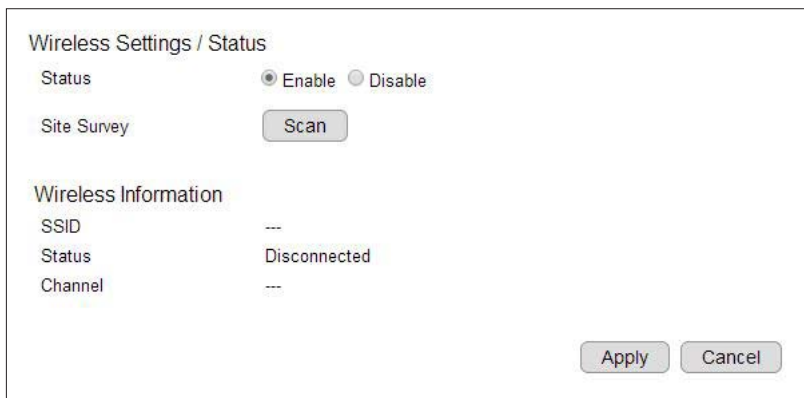
All wireless related settings can be found under **Wireless** menu. The camera store several **AP profiles** (candidate AP list) although only one AP will be connected at any given time.



Wireless >> basic



Under Basic, you can turn on or off the wireless radio, setting connection with the existing AP surrounded. Wireless Information shows the current wireless status.



To setup a wireless connection, you must first enable wireless by choosing **Enable** option.

Click on **Scan** button to search for existing wireless access points (AP).

When prompted with Site Survey window, click on **Refresh** button if you do not find your AP on the list.

On the site list, choose your preferred AP and then click **Add to AP Profile**.

Select	No.	Channel	SSID	BSSID	Encryption	Authentication	Signal (%)	Mode
<input type="radio"/>	1	2	EPG5000_2.4G	00:02:6F:A0:42:D9	AES	WPA2PSK	100	11b/g/n
<input type="radio"/>	2	3	CHT5927	CC:B2:55:9F:55:46	TKIPAES	WPA1PSKWPA2PSK	37	11b/g/n
<input type="radio"/>	3	1	9439	C8:6C:87:2E:FC:C3	TKIP	WPAPSK	18	11b/g
<input type="radio"/>	4	4	home1007	90:94:E4:AB:B2:46	TKIPAES	WPA1PSKWPA2PSK	23	11b/g/n
<input type="radio"/>	5	11	link	F8:D1:11:25:0B:48	AES	WPA1PSKWPA2PSK	100	11b/g/n

Then, on the AP Profile Settings window, please check if the security settings are correct. Please review the settings: **Encryption**, **WPA type**, and **Pre-Shared Key type**. They are automatically detected. Normally, you only need to provide the **Pre-Shared Key** (password). However, you can still change the settings if they do not match with the actually AP wireless security settings.

Enter your Pre-Shared Key and press **Save** to complete the setting.

AP Profile Settings	
Network Name (SSID) :	<input type="text" value="EPG5000_2.4G"/>
Encryption :	<input type="text" value="WPA pre-shared key"/>
WPA Type :	<input type="radio"/> WPA(TKIP) <input checked="" type="radio"/> WPA2(AES)
Pre-Shared Key Type :	<input type="text" value="Passphrase"/>
Pre-Shared Key :	<input type="text" value="1234567890"/>
	<input type="button" value="Save"/>

Please wait for a moment for the setup to complete.

Module is reloading, please wait **10** seconds

While waiting, you can remove RJ45 Ethernet Cable from the camera now. It may take a moment for the camera to establish wireless connection with the chosen AP (your gateway/router).

Your camera should be connected to the gateway/router now. You can verify it by logging into your camera again. In case if the camera is still not accessible, please check your gateway/router wireless setting again see whether your camera is connected.

Wireless >> WPS

Wi-Fi Protected Setup (WPS) is a network security standard that allow users to easily secure a wireless home network. This feature allows user to set up wireless connection between the camera and home gateway/router without entering any detail wireless security configurations such as SSID, encryption method or pre-shared key (password). However, you need to initiate WPS process on both the camera and the gateway/router at the same time so that they can find each other.

Normally, for WPS-enabled products, you should be able to find the WPS button on the product. Only few rare cases that require user to initiate WPS process over web page. Make sure WPS feature is **Enabled** on both the camera and your gateway/router. Then, you need to know how to initiate gateway's/router's WPS process first. It is mostly likely a simple push of the WSP button on your gateway/router. On EDS1330, you can initiate WPS process by pressing the WPS button or through the web page.

WPS Button

The simplest way to setup wireless connection with a gateway/router is by pressing on the WPS button.

First, press the WPS button on the gateway/router (there may be changes on the LED lights as signs of initiation).

Then, press the WPS button the camera.

Wait a minute for two devices to establish the wireless connection. Once the process is complete, the WPS LED indicator will become solid green.



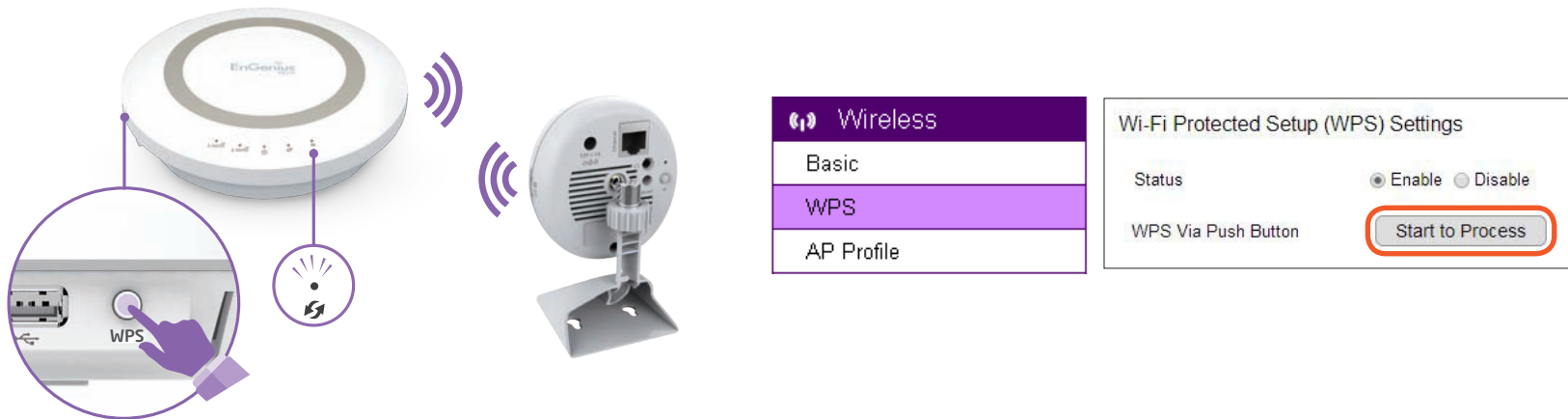
WPS over web page

You can initiate camera's WPS process on the web page.

First, press the WPS button on the gateway/router (there may be changes on the LED lights as signs of initiation).

On camera's WPS page, press **Start to Process**.

Wait a minute for two devices to establish the wireless connection; when the connectivity is complete, the WPS LED indicator will become solid green.



NOTE: For WPS to setup wireless connection successfully, timing is essential. Once the gateway/router has initiated WPS process, your camera WPS process must be initiated within a given time range. It will be best if you have two devices in close range so that WPS process on both sides can be initiated immediately after another.

Wireless >> AP Profile

You can keep several AP Profiles (settings) if your application may need to switch between APs in case one of them failed. Each profile matches to a specific AP.

Wireless

- Basic
- WPS
- AP Profile**

AP Profile Table

Select	No.	SSID	MAC	Authentication	Encryption
<input type="checkbox"/>	1	EPG5000_2_4G	88-DC-96-22-C9-E4	WPA2_PSK	AES

App Profile >> Add >> WPA pre-shared key

AP Profile Settings

Network Name (SSID) :

Encryption : **WPA pre-shared key** ▼

WPA Type : WPA(TKIP) WPA2(AES)

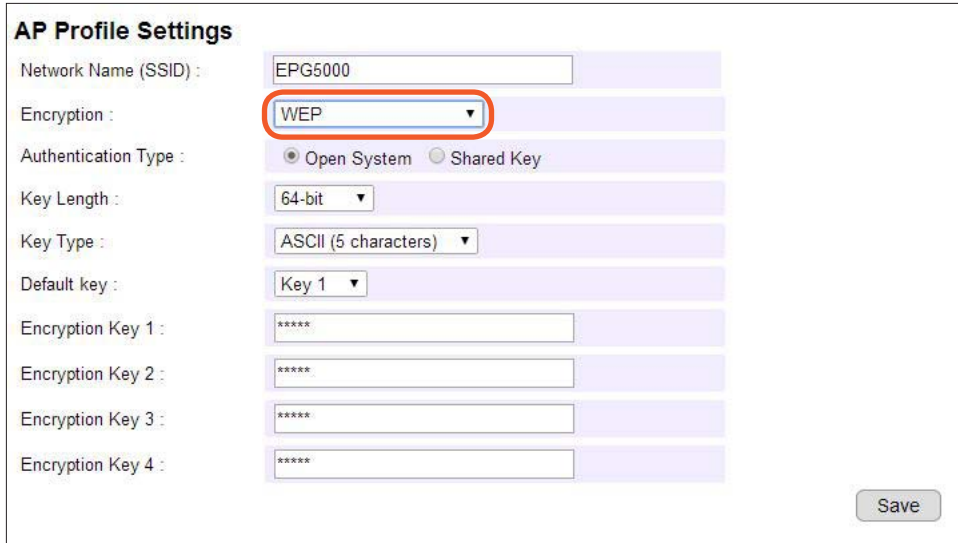
Pre-Shared Key Type : **Passphrase** ▼

Pre-Shared Key :

Network Name (SSID): enter the SSID of the target AP
Encryption: supports **Disabled, WEP** and **WPA pre-shared key**
WPA Type: supports **WPA (TKIP)** and **WPS2(AES)**
Pre-Shared Key Type: **Passphrase** or **HEX (64 characters)**

App Profile >> Add >> WEP

Please note that WEP has proven to be insecure, this security option is reserved only for legacy products that support WEP only.



The screenshot shows the 'AP Profile Settings' form for WEP configuration. The 'Encryption' dropdown menu is highlighted with a red circle and contains the text 'WEP'. Other fields include 'Network Name (SSID)' with the value 'EPG5000', 'Authentication Type' with radio buttons for 'Open System' (selected) and 'Shared Key', 'Key Length' set to '64-bit', 'Key Type' set to 'ASCII (5 characters)', and 'Default key' set to 'Key 1'. There are four 'Encryption Key' fields, each containing six asterisks. A 'Save' button is located at the bottom right of the form.

Authentication Type: supports **Open System** and **Shared Key**

Key Length: 64bit and 128bit (the longer the safer)

Key Type: ASCII or HEX

Default Key: the key that will be used for authentication

Encryption Key 1~4: the candidate keys for authentication

App Profile >> Edit

On the table select the profile and then click on **Edit** to modify the profile setting.

Select	No.	SSID	MAC	Authentication	Encryption
<input checked="" type="checkbox"/>	1	EPG5000_2.4G	88:DC:96:22:C9:E4	WPA2_PSK	AES
<input type="checkbox"/>	2	APTG Wi-Fi	84:C2:B2:7B:89:BC	Open System	NONE
<input type="checkbox"/>	3	CHT Wi-Fi Auto	84:C9:B2:7B:89:BC	WPA_PSK	TKIP

Once complete the modification, click **Save** to make the changes effectively.

AP Profile Settings

Network Name (SSID) :

Encryption :

WPA Type : WPA(TKIP) WPA2(AES)

Pre-Shared Key Type :

Pre-Shared Key :

App Profile >> Move Up / Down

Each profile is ordered by the number at the front, the ones on top have higher priority when camera tries to search for the existing AP. You can change the AP priority by moving them up or down. Select the profile and then click either on **Move Up** or **Move Down**.

Select	No.	SSID	MAC	Authentication	Encryption
<input checked="" type="checkbox"/>	1	EPG5000_2.4G	88:DC:96:22:C9:E4	WPA2_PSK	AES
<input type="checkbox"/>	2	APTG Wi-Fi	84:C2:B2:7B:89:BC	Open System	NONE
<input type="checkbox"/>	3	CHT Wi-Fi Auto	84:C9:B2:7B:89:BC	WPA_PSK	TKIP

App Profile >> Delete

Delete Selected: only delete the selected profile.

Select the profile to be deleted and then click on **Delete Selected** button.

Delete All: this will delete all the AP profiles on the table


Select	No.	SSID	MAC	Authentication	Encryption
<input checked="" type="checkbox"/>	1	EPG5000_2.4G	88:DC:96:22:C9:E4	WPA2_PSK	AES
<input type="checkbox"/>	2	APTG Wi-Fi	84:C2:B2:7B:89:BC	Open System	NONE
<input type="checkbox"/>	3	CHT Wi-Fi Auto	84:C9:B2:7B:89:BC	WPA_PSK	TKIP

App Profile >> Connect

Select a profile to be connected and then click on **Connect** to initiate the wireless connection.

Select	No.	SSID	MAC	Authentication	Encryption
<input checked="" type="checkbox"/>	1	EPG5000_2.4G	88:DC:96:22:C9:E4	WPA2_PSK	AES
<input type="checkbox"/>	2	APTG Wi-Fi	84:C2:B2:7B:89:BC	Open System	NONE
<input type="checkbox"/>	3	CHT Wi-Fi Auto	84:C9:B2:7B:89:BC	WPA_PSK	TKIP

Media

 Media
Video
Camera
Advanced
Audio

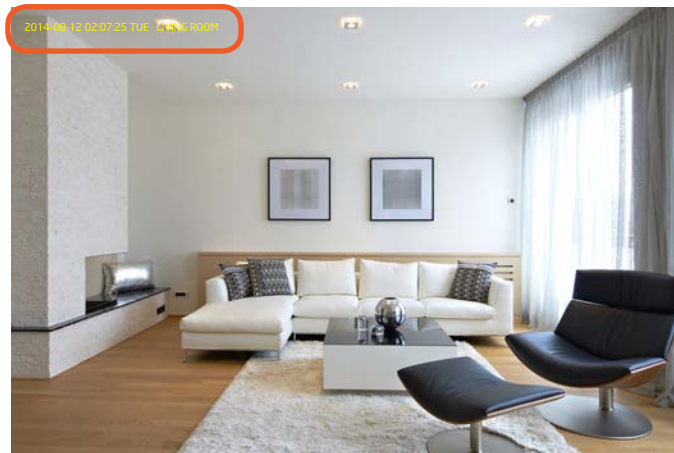
All media quality related settings can be found under **Media** menu. These settings will have direct effect on the captured image or video.

Media >> Video

Display Overlay

It is recommended that you enable the **Time Stamp** and **Video Title** and enter the Video Title that is easy for you to recognize when showing on the viewer. The overlay will be shown on the upper left corner of your live viewer as shown below.

<input checked="" type="checkbox"/> Display overlay
Timestamp and Video Title: <input type="text" value="LIVING ROOM"/> (A-Z, 0-9, /, -,)



Stream1 and Stream2

There are two streams running concurrently: **Stream 1** and **Stream 2**. By default, Stream 1 has the higher resolution than stream 2. Stream 2 serves lower resolution for mobile devices which has smaller screens. Each stream has independent settings.

Stream 1	
Compression Format	H.264
Resolution	1280 x 720
Max. Frame per Second	30 fps
Bit Rate Encoding	Constant Bit Rate
Bit Rate (Ethernet)	4 Mbps
Bit Rate (Wi-Fi)	4 Mbps
Stream 2	
Compression Format	H.264
Resolution	640 x 480
Max. Frame per Second	30 fps
Bit Rate Encoding	Constant Bit Rate
Bit Rate (Ethernet)	1 Mbps
Bit Rate (Wi-Fi)	1 Mbps

Note: You may adjust Bit Rate Value according to your connectivity mode or bandwidth conditions. Higher bit rates delivers excellence resolution when video is viewed in full-screen on PC. Lower bit rates may be better choices in limited-bandwidth environments or via remote Wi-Fi network.

Default Settings Apply Cancel

Compression Format: H.264 is suggested that serves the best compression quality.

Resolution: This sets the resolution of the image. Higher resolution delivers higher quality image but consumes more storage spaces and network bandwidth.

Max. Frame per Second: This sets the maximum number of frames to be captured per second. Higher frame rate delivers smoother video but consumes more storage spaces and network bandwidth.

Bit Rate Encoding: This sets the bit rate encoding at which the output data consumed is constant or variable per time segment.

Bit Rate (Ethernet): The bit rate when data is transmitted using Ethernet.

Bit Rate (WiFi): The bit rate when data is transmitted using wireless connection.

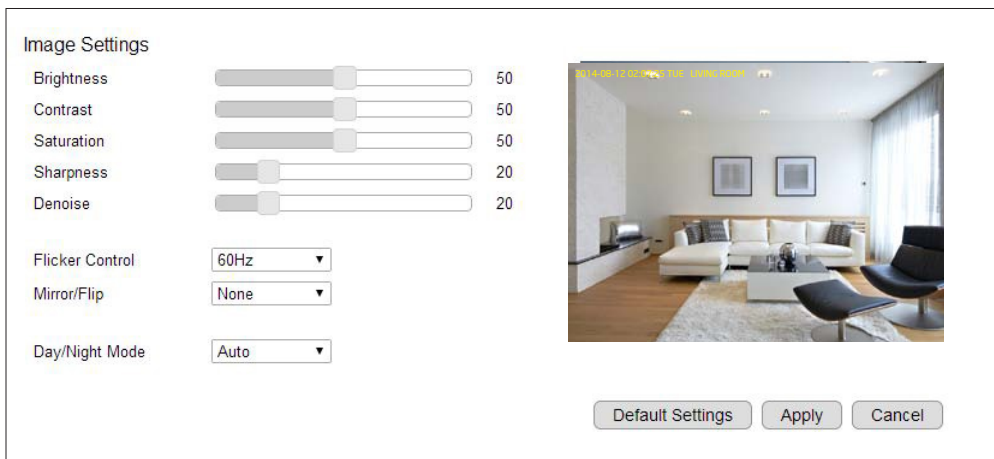
You are advised to set a smaller video size and lower bit rate for remote viewing on mobile phones (Stream 2) and a larger video size and a higher bit rate for live viewing on web browsers (Stream 1). In addition, Ethernet suffers less interference and tends to be faster than wireless; therefore, the bit rate can be set higher for (Stream 1). The reason that Stream 2 bit rate settings are both low simply because Stream 2 is applied to serve low bandwidth appliances such as mobile phone.

Media >> Camera

You can get better image appearance by tuning the image parameters of the camera using the sliders shown. For example, in a dark room you may want to set the Brightness higher to generate clearer result. When directly facing an outdoor window, you may want to lower the Brightness a bit. There may be different settings under different circumstance; therefore, you should tune the value if the image quality has become too low to serve its purpose.

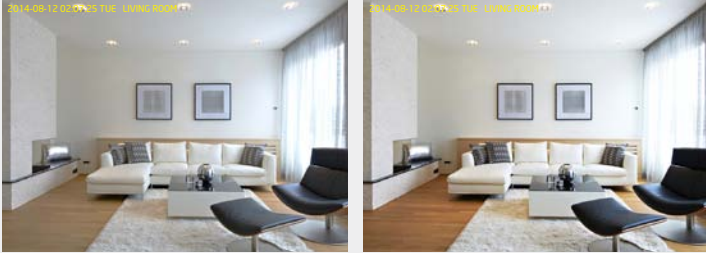
By clicking **Default Settings**, all the settings will be reset to default value. And click **Apply** to make change effectively.

Please refer to the following examples for comparison between low and high for each of the light settings.



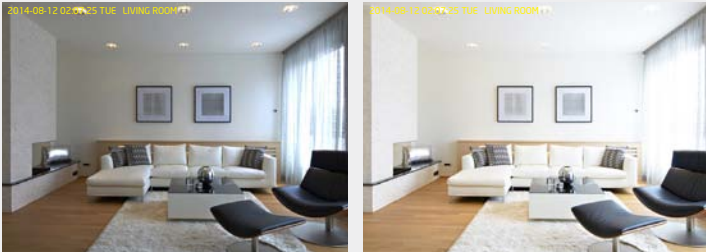
Camera >> Image Settings

Contrast



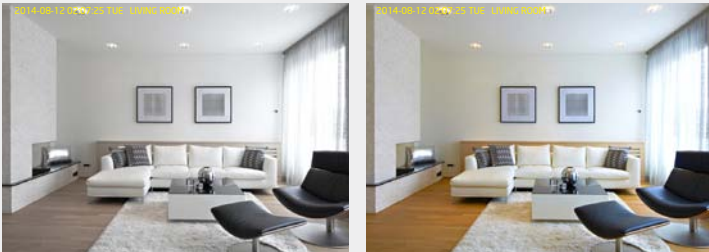
Adjust the contrast of the image.
Default: 50
Low 0 ↔ 100 High

Brightness



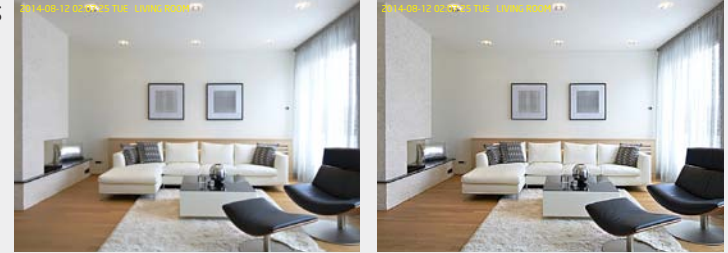
Adjust the brightness of the image by percentage.
Default: 50
Darker 0 ↔ 100 Brighter

Saturation



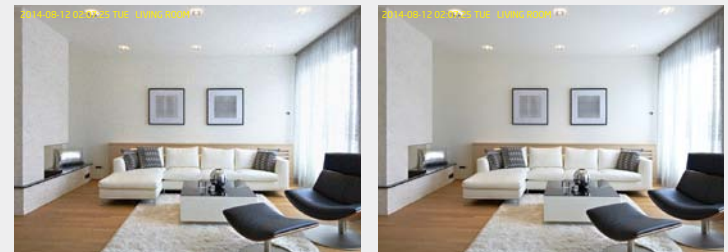
Adjust saturation of image by percentage
Default: 50
Less 0 ↔ 100 More

Sharpness



Adjust the sharpness of the image by percentage.
Default: 50
Softer 0 ↔ 100 Sharper

Denoise



Adjust effect of denoise on the image by percentage.
Default: 20
None 0 ↔ 100 Strong

Noise is a random variation of color and brightness in the image captured under low light environment. You may find adjusting Denoise useful when your camera requires to operate under such condition, especially if you do not enable night-vision.

Note: Some of the effects will be more obvious in higher resolution at real time.

Camera >> Flicker Control

The supported options are: **60Hz & 50Hz**

Flicker Control is an anti-flicker feature setting.

AC lamp can cause a flicker effect, which is a consequence of the AC power frequency (50 or 60 Hz). As the light can change from picture to picture, causing light flicker. This will lead to inconsistent light source between each snapshot. To eliminate flicker, configure your camera to PAL (60Hz) or NTSC (50Hz) modes to compensate the effects. Check the power supply of your region for proper setting.

Camera >> Mirror / Flip

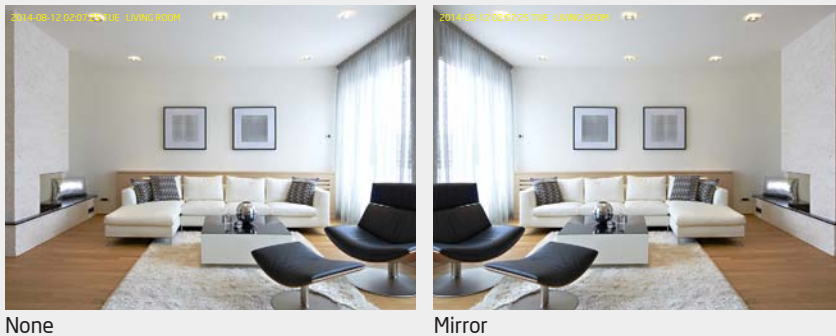
Supported video orientation options are **None**, **Mirror**, **Flip** and **Both**

There are times that the camera will have to be mounted upside down or sideways. That is, the view become difficult to monitor when it is upside down. The **Mirror** settings does not reflect on the preview at real time (unlike lighting condition settings). Therefore, you have to click on **Apply** to see the result.

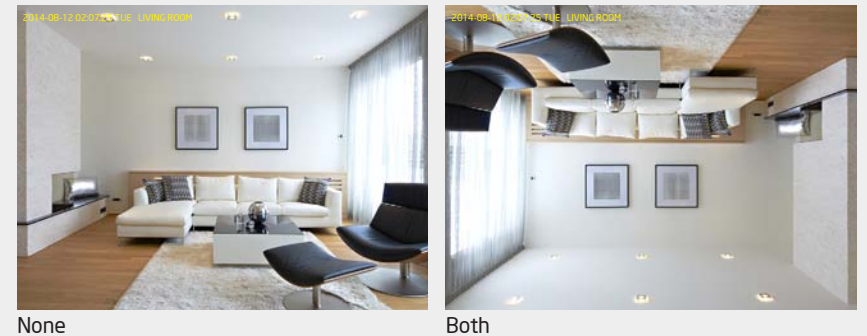
To reset to the default, click **Default Settings** and then click **Apply**.

The following examples compares **none** with **a chosen mirror/flip effect**.

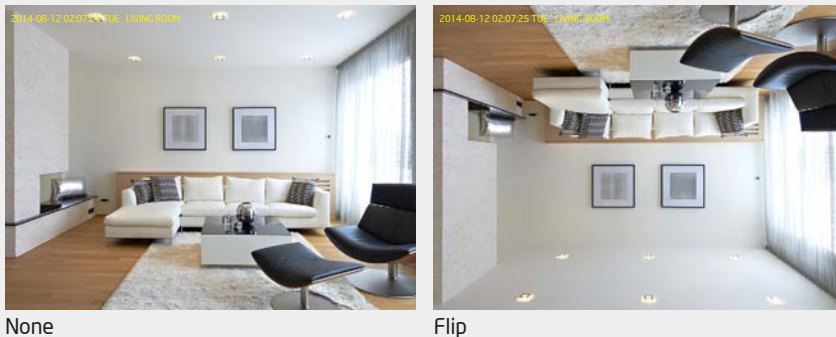
Mirror - Horizontally reflect the display of the live view



Both - Horizontally and vertically reflect the display of the live view



Flip - Vertically reflect the display of the live view



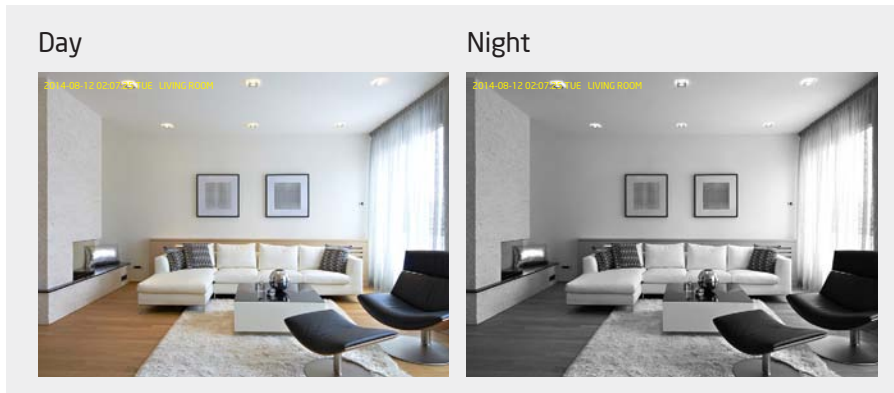
Camera >> Day / Night Mode

This controls **Night Vision** ON and OFF.

Auto: the camera automatically switch between Day and Night modes by judging ambient light sufficiency.

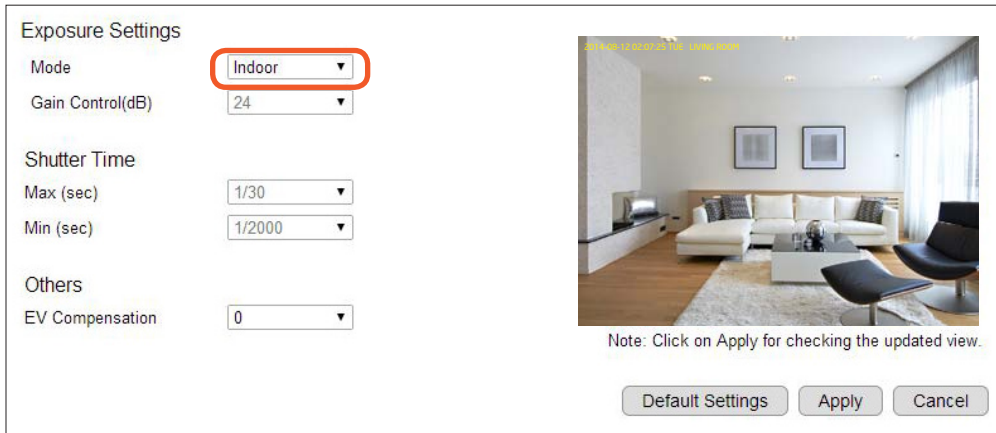
Day: force the camera to turn **OFF** Night Vision.

Night: force the camera to turn Night Vision **ON**.



Media >> Advanced

On this page, you can set the **Exposure Mode** and **Gain Control Settings**, **Shutter Speed** and also the **Exposure Value (EV) Compensation**.

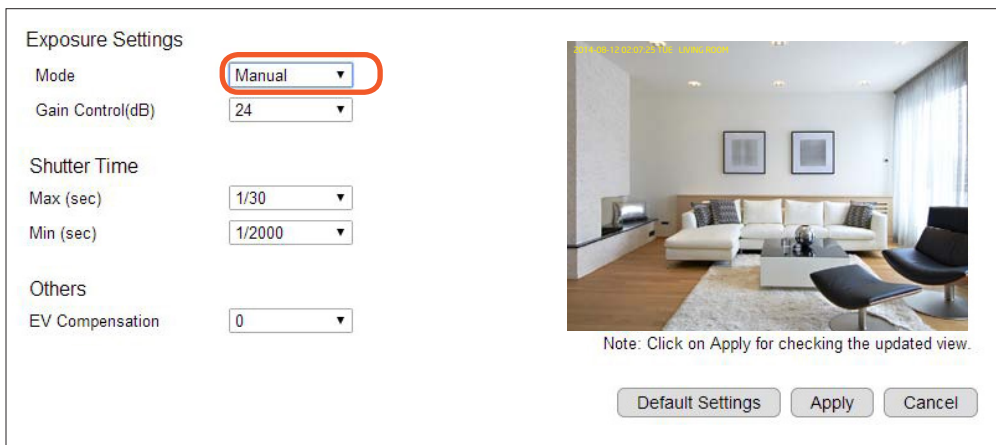


The screenshot shows the 'Exposure Settings' panel. The 'Mode' dropdown is set to 'Indoor' and is highlighted with a red circle. Other settings include 'Gain Control(dB)' at 24, 'Shutter Time' with 'Max (sec)' at 1/30 and 'Min (sec)' at 1/2000, and 'EV Compensation' at 0. A preview image of a living room is shown on the right. Below the preview are buttons for 'Default Settings', 'Apply', and 'Cancel'. A note below the preview reads: 'Note: Click on Apply for checking the updated view.'

Exposure Settings

Mode: **Manual, Indoor, Outdoor**

For regular users, please choose indoor or outdoor, the default values will be preconfigured. The areas are grey out for preconfigured settings when you choose **Indoor** or **Outdoor**.



The screenshot shows the 'Exposure Settings' panel. The 'Mode' dropdown is set to 'Manual' and is highlighted with a red circle. Other settings include 'Gain Control(dB)' at 24, 'Shutter Time' with 'Max (sec)' at 1/30 and 'Min (sec)' at 1/2000, and 'EV Compensation' at 0. A preview image of a living room is shown on the right. Below the preview are buttons for 'Default Settings', 'Apply', and 'Cancel'. A note below the preview reads: 'Note: Click on Apply for checking the updated view.'

Manual

Choose the mode Manual if you would like to fine tune some of the settings that suits your application. Please be noted that these settings may have impacts on the image quality and performance. If you are not sure about the terms and behavior, you are suggested to keep it as default.

Click **Apply** to save the configured settings.

Click **Default Settings** to reset to default and then click **Apply** to save the settings.

Media >> Audio

Status:

If the audio is important to what you are monitoring, you need to set the audio status to **Enable**. So that the microphone can pick up sounds in the environment. On the other hand, if audio is not necessary (for instance an open space with a lot of noises), you are advised to **Disable** the audio to reduce the clips file size.

Mode:

Both Mic & Speaker: enable both microphone and speaker

Only Mic: enable only the microphone

Only Speaker: enable only the speaker

Microphone (Input) Gain: setting the sensitivity of the microphone. High gain will result in higher volume and but may possibly picks up more noise.

Encoding: supporting encoding type is G711A, AAC and G711U

Sample Rate: 8 K

Bit Rate: 16 Bit

Speaker (Output) Volume: adjusting speaker volume by sliding the bar

Audio Settings

Status Enable Disable

Mode Both Mic & Speaker

Microphone (Input) Gain 50

Encoding G711U

Sample Rate 8 K

Bit Rate 16 Bit

Speaker (Output) Volume 50

Default Settings Apply Cancel

Event Management

This camera supports many intelligent features that allows you to utilize the camera in many application scenarios. This section will introduce each of them in detail. For application examples, please refers to the [Application Guide](#).

 Event Management
Setup Wizard
Motion Detection
Audio Detection
Event/Alarm
Schedule Recording

Event Management >> Setup Wizard

Wizard is an integrated configuration flow guide to the two main features on the camera: [Schedule Recording](#) and [Event/Alarm](#).

Schedule Recording: Set the camera to record video regularly based on a predefined schedule.

Event/Alarm: When camera detects an event that matches the predefined condition, an alarm will be triggered and proceed with the defined actions; for instance, taking snapshots or recording videos for the specified length of time.

Wizard - Schedule Recording

Step 1: Select Scheduled Recording

Choose **Schedule Recording** on the page and click **Next** to proceed.



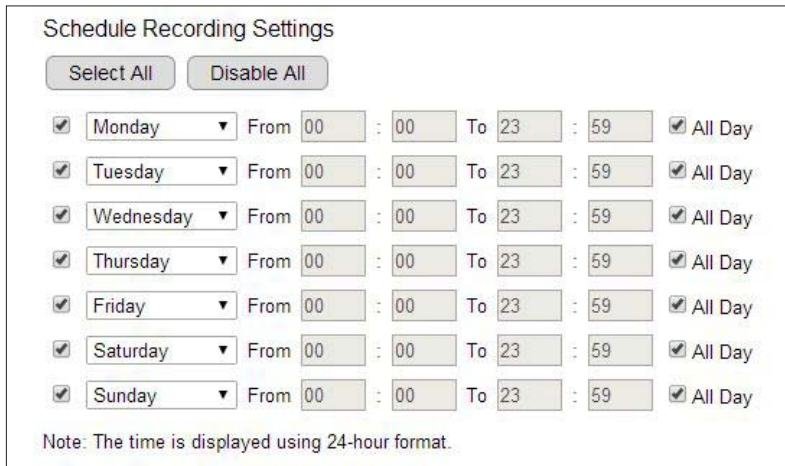
Select a recording type

Schedule Recording

Event/Alarm

Next

Step 2: Schedule the Recording



Schedule Recording Settings

Select All Disable All

Monday From 00 : 00 To 23 : 59 All Day

Tuesday From 00 : 00 To 23 : 59 All Day

Wednesday From 00 : 00 To 23 : 59 All Day

Thursday From 00 : 00 To 23 : 59 All Day

Friday From 00 : 00 To 23 : 59 All Day

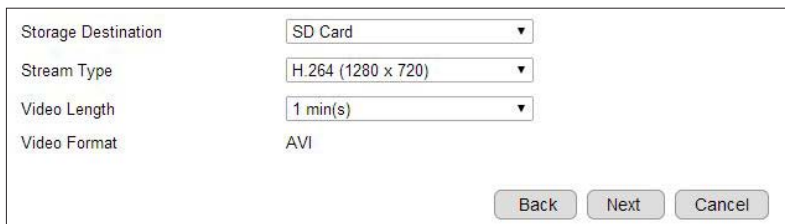
Saturday From 00 : 00 To 23 : 59 All Day

Sunday From 00 : 00 To 23 : 59 All Day

Note: The time is displayed using 24-hour format.

You can specify the time range for each schedule or simply click on **All Day** for 24-hour recording.

You must **Select** to enable the schedule.



Storage Destination SD Card

Stream Type H.264 (1280 x 720)

Video Length 1 min(s)

Video Format AVI

Back Next Cancel

Storage Destination: SD Card or Network Storage

Stream Type: H.264 (1280x720) or H.264 (640x480). This options is based on current video settings for Stream 1 and Stream 2.

Video Length: the maximum video length of time per file

Video Format: AVI

Note: You may have two different schedules for the same day. As shown in the example above, you can have two schedules: Monday 08:00~12:00 and Monday 14:00 ~ 18:00.

Step 3: Time Settings

Like any other surveillance system, time is essential because we want to keep track of the time of the events recorded or detected by the camera. You suppose have completed the time setting during the installation. This is just another confirmation just in case if you did not have not configure the time setting.

Click **Save** to complete the wizard.

Time Settings

Time Setup

Time Zone

NTP Time Server

Enable Daylight Saving

Start Time

End Time

Wizard - Event/Alarm

Step 1: Select Alarm

Choose **Event/Alarm** on the page and click **Next** to proceed.



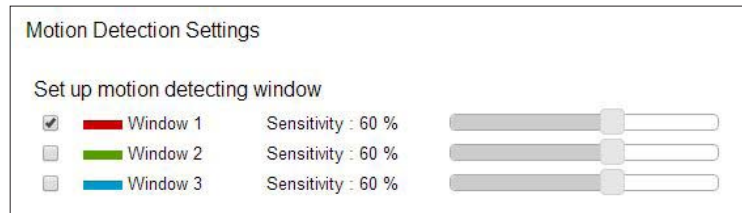
Select a recording type

Schedule Recording

Event/Alarm

Next

Step 2: Motion Detection Window Setting



Motion Detection Settings

Set up motion detecting window

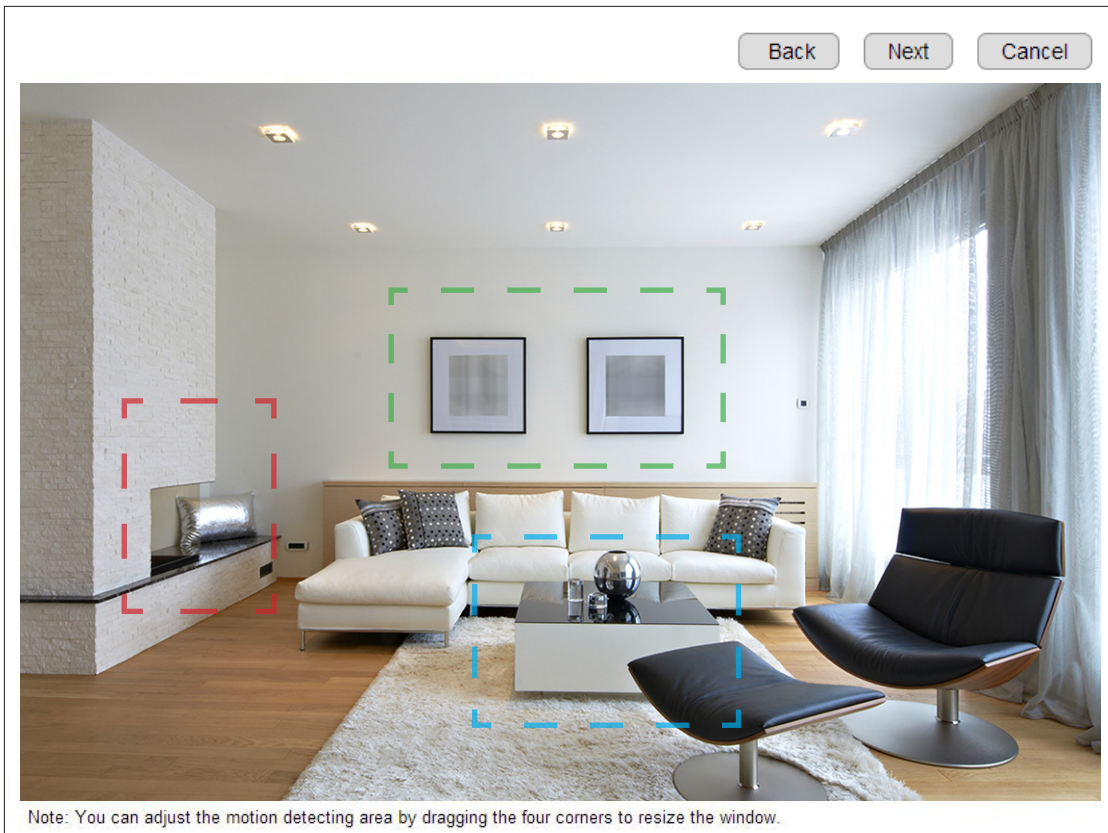
<input checked="" type="checkbox"/>	Window 1	Sensitivity : 60 %	<input type="range"/>
<input type="checkbox"/>	Window 2	Sensitivity : 60 %	<input type="range"/>
<input type="checkbox"/>	Window 3	Sensitivity : 60 %	<input type="range"/>

Motion Detection Window is a hot zone that the camera analyzes for movement. When a motion is detected within the zone, an event alarm will be triggered.

There can be 3 windows configured at the most. Simply click on the check box to enable or disable the selected window. Three windows are differentiated by color; Window 1 is Red, Window 2 is Green and Window 3 is Blue.

Sensitivity: The sensitivity is set by percentage. The higher percentage represents higher sensitivity.

Depends on your application, high sensitivity will trigger event more often than low sensitivity and produce more snapshots or videos. However, overly sensitive detection will fill up the storage very quickly. Even if you have unlimited storage space, large amount of files can become a problem when you need search through each of the files to find what you are really looking for. It may take some time for you to fine tune the optimal sensitivity for your application.



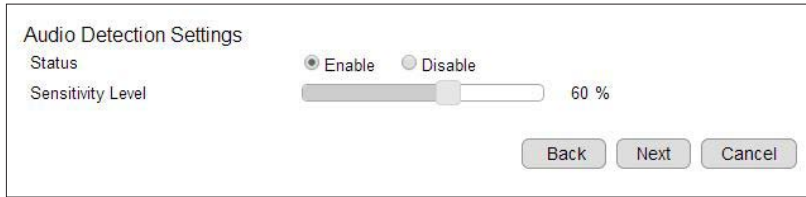
By default, Window 1 is enabled and full detecting area is set with red dashed color frame.

You can configure the detection window by dragging around the frame to decide the monitoring objects or area.

Please refer to [Event Management >> Motion Detection](#) for resizing the window

Click **Next** to continue the event settings.

Step 3: Audio Detection Settings



Audio Detection Settings

Status Enable Disable

Sensitivity Level 60 %

Back Next Cancel

Audio Detection is another way to trigger the event and alarm. It can be enabled to initiate snapshot or recording when there's sound detected in the background. When the incidence falls out of the motion detection window, "sound" can be a good indication that a change in the environment has occurred and it's better to take actions to keep event in record.

Status: Enable or Disable

Sensitivity Level: The sensitivity is set by percentage. The higher percentage represents higher sensitivity.

Similar to motion detection, high sensitivity will trigger event more often than low sensitivity and produce more snapshots or videos. However, overly sensitive detection will fill up the storage very quickly. Even if you have unlimited storage space, large amount of files can become a problem when you need search through each of the files to find what you are really looking for. It may take some time for you to fine tune the optimal sensitivity for your application.

Step 4: Select the Event Type

Event Settings	
Event Type	Record ▼
Storage Destination	SD Card ▼
Event Duration	20 sec(s) ▼

Event Type: Record (movie clip)

Event Settings	
Event Type	Record ▼
Storage Destination	SD Card ▼
Event Duration	20 sec(s) ▼
Pre-event	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Pre-event Buffer	1 sec(s) ▼
Post-event	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Post-event Buffer	1 sec(s) ▼
Event Recording	
Video Format	AVI
Stream Type	H.264 (1280 x 720) ▼
Video Length	20 sec(s) ▼
Alarm Audio Play Settings	
Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.	
Play Audio	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Alarm Audio Files	alarm_1 ▼ <input type="button" value="Play"/>
<input type="button" value="Back"/> <input type="button" value="Next"/> <input type="button" value="Cancel"/>	

Select the Event Action Type, **Record** or **Snapshot** to proceed.

Event Settings

Storage Destination: SD Card or Network Storage

Event Duration: the length of time when an event is triggered

Pre-event: Enable or Disable pre-event

Pre-event Buffer: duration: the length of pre-event, 1~3 seconds

Post-event: Enable or Disable post-event

Post-event Buffer: the length of post-event, 1~3 seconds

Event Recording

Video Format: AVI is set

Stream Type: H.264 (1280x720) or H.264 (640x480). The options may vary as it is the settings of current Stream 1 and Stream 2

Video Length: the maximum video length of time per file

Alarm Audio Play Settings

Play Audio: Enable or Disable the alarm audio through the speaker when an event is triggered.

Alarm Audio Files: the sound file to be played when alarm is triggered. Click **Play** to test.

Click **Next** to continue.

Event Type: Record (movie clip)

Event Settings

Event Type: Record

Storage Destination: SD Card

Event Duration: 20 sec(s)

Pre-event: Enable Disable

Pre-event Buffer: 1 sec(s)

Post-event: Enable Disable

Post-event Buffer: 1 sec(s)

Event Recording

Video Format: AVI

Stream Type: H.264 (1280 x 720)

Video Length: 20 sec(s)

Alarm Audio Play Settings

Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.

Play Audio: Enable Disable

Alarm Audio Files: alarm_1

Event Settings

Storage Destination: SD Card or Network Storage

Event Duration: the length of time when an event is triggered

Pre-event: Enable or Disable pre-event

Pre-event Buffer: duration: the length of pre-event, 1~3 seconds

Post-event: Enable or Disable post-event

Post-event Buffer: the length of post-event, 1~3 seconds

Event Recording

Video Format: AVI is set

Stream Type: H.264 (1280x720) or H.264 (640x480). The options may vary as it is the settings of current Stream 1 and Stream 2

Video Length: the maximum video length of time per file

Alarm Audio Play Settings

Play Audio: Enable or Disable the alarm audio through the speaker when an event is triggered.

Alarm Audio Files: the sound file to be played when alarm is triggered. Click **Play** to test.

Click **Next** to continue.

Note: If setting Event Duration to 20 seconds, the camera will keep recording for 20 seconds when an event is triggered. In this case, if the Video Length is 20 seconds, then 1 file will be generated for instance of event. If Video Length per clips 10 seconds, then 2 files will be generated event. Please note that pre-alarm and post-alarm will extend the length of the clip for the chosen extra length of time.

Event Type: Snapshot (images)

Event Settings

Event Type

Event Duration

Snapshot

Interval

Upload Type SD Card Network Storage FTP E-Mail

Alarm Audio Play Settings

Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.

Play Audio Enable Disable

Alarm Audio Files

Event Duration: the length of time when an event is triggered.

Interval: the elapse time between each snapshot, the options are from 5 seconds to 5 minutes.

Upload Type: select where you prefer to keep the snapshot. You may choose two at most.

Play Audio: Enable or Disable (enable to play alarm audio through the speaker when an event is triggered).

Alarm Audio Files: the sound file to be played when alarm is triggered. Test the alarm by clicking **Play**.

Click **Next** when this step is complete and proceed to the last step.

Step 5: Time Setting

Time Settings

Time Setup

Time Zone

NTP Time Server

Enable Daylight Saving

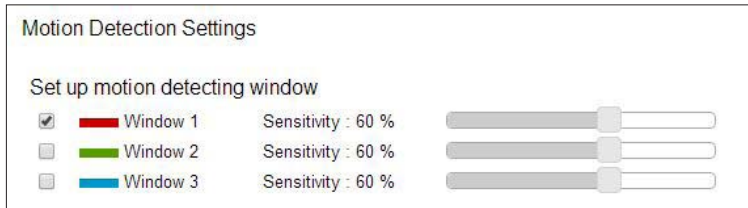
Start Time

End Time

Like any other surveillance system, time is essential because we want to keep track of the time of the events recorded or detected by the camera. You suppose have completed the time setting during the installation. This is just another confirmation just in case if you did not have not configure the time setting.

Click **Save** to complete the wizard.

Event Management >> Motion Detection

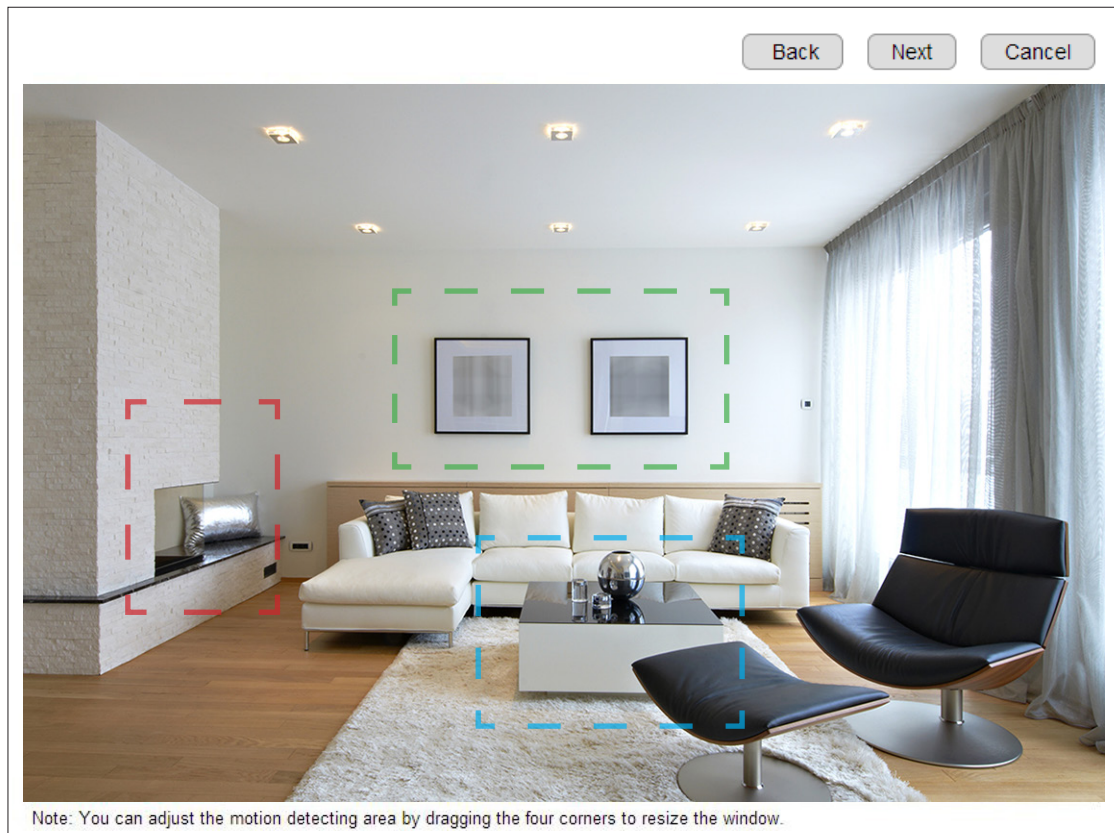


Motion Detection Window is a hot zone that the camera analyzes for movement. When a motion is detected within the zone, an event alarm will be triggered.

There can be 3 windows configured at the most. Simply click on the check box to enable or disable the selected window. Three windows are differentiated by color; Window 1 is Red, Window 2 is Green and Window 3 is Blue.

Sensitivity: The sensitivity is set by percentage. The higher percentage represents higher sensitivity.

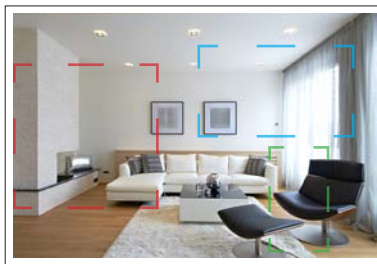
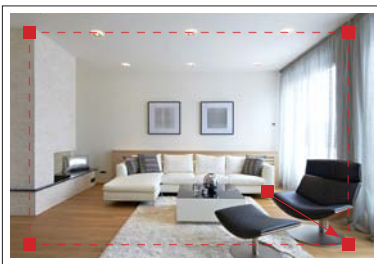
Depends on your application, high sensitivity will trigger event more often than low sensitivity and produce more snapshots or videos. However, overly sensitive detection will fill up the storage very quickly. Even if you have unlimited storage space, large amount of files can become a problem when you need search through each of the files to find what you are really looking for. It may take some time for you to fine tune the optimal sensitivity for your application.



By default, Window 1 is enabled and full detecting area is set with red dashed color frame.

You can configure the detection window by dragging around the frame to decide the monitoring objects or area.

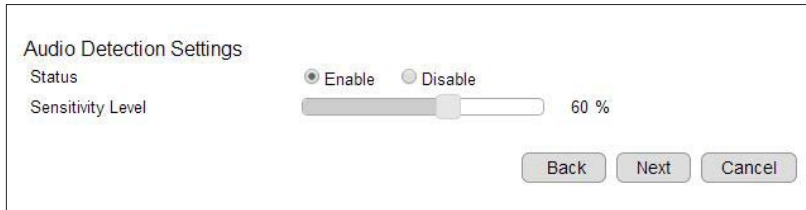
Click **Next** to continue the event settings.



You can adjust the motion detecting area by dragging the four corners to resize the window.

Therefore, you can have a combination of three different detection window size.

Event Management >> Audio Detection



The screenshot shows a dialog box titled "Audio Detection Settings". It contains two main sections: "Status" and "Sensitivity Level". Under "Status", there are two radio buttons: "Enable" (which is selected) and "Disable". Under "Sensitivity Level", there is a horizontal slider bar with a grey fill and a white track, and the text "60 %" to its right. At the bottom of the dialog box, there are three buttons: "Back", "Next", and "Cancel".

Audio Detection is another way to trigger the event and alarm. You want the camera to initiate recording or snapshot when there's a sound in the background. When the incidence falls out of the motion detection window, "sound" can be a good indication that a change in the environment has occurred and it's better to start recording.

Status: Enable or Disable

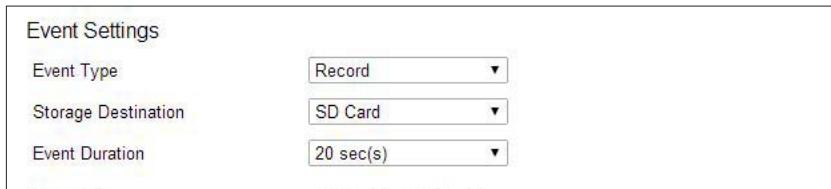
Sensitivity Level: The sensitivity is set by percentage. The higher percentage represents higher sensitivity.

Similar to motion detection, high sensitivity will trigger event more often than low sensitivity and produce more snapshots or videos. However, overly sensitive detection will fill up the storage very quickly. Even if you have unlimited storage space, large amount of files can become a problem when you need search through each of the files to find what you are really looking for. It may take some time for you to fine tune the optimal sensitivity for your application.

Event Management >> Event / Alarm

Enable Schedule Recording for proceeding the succeeding settings.

Note: Please disable Event/Alarm ahead of configuring Schedule Recording.



Event Settings

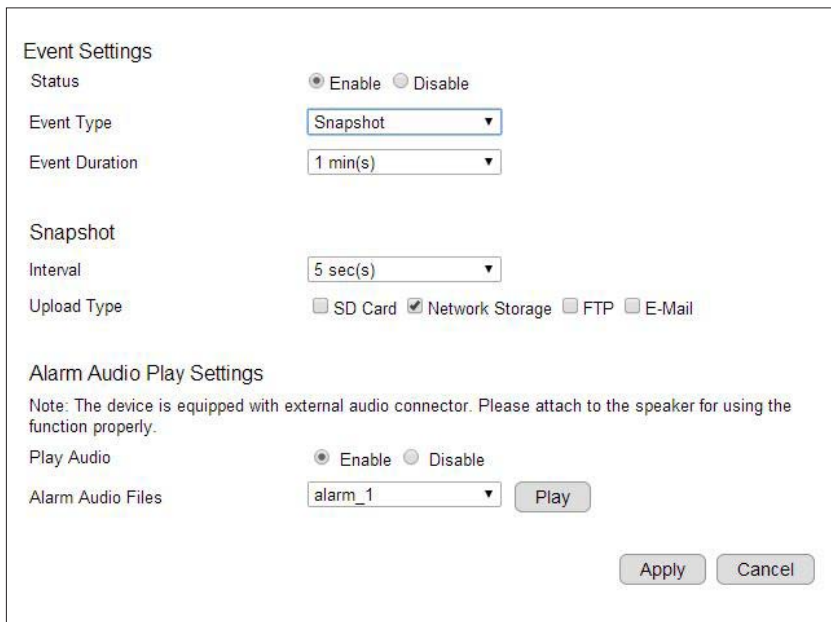
Event Type: Record

Storage Destination: SD Card

Event Duration: 20 sec(s)

Firstly, select the event action type, **Record** or **Snapshot** you prefer to keep the event on track.

Event Type: Snapshot (images)



Event Settings

Status: Enable Disable

Event Type: Snapshot

Event Duration: 1 min(s)

Snapshot

Interval: 5 sec(s)

Upload Type: SD Card Network Storage FTP E-Mail

Alarm Audio Play Settings

Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.

Play Audio: Enable Disable

Alarm Audio Files: alarm_1

Event Duration: the length of time when an event is triggered.

Snapshot Settings

Interval: the elapse time between each snapshot, the options are from 5 seconds to 5 minutes.

Upload Type: select where you prefer to keep the snapshot. You may choose two at most.

Alarm Audio Play Settings

Play Audio: Enable or Disable (enable to play alarm audio through the speaker when an event is triggered).

Alarm Audio Files: the sound file to be played when alarm is triggered. Test the alarm by clicking **Play**.

Click **Apply** to save the event settings.

Event Type: Record (movie clip)

Event Type: Record

Storage Destination: Network Storage

Event Duration: 1 min(s)

Pre-event: Enable Disable

Pre-event Buffer: 1 sec(s)

Post-event: Enable Disable

Post-event Buffer: 1 sec(s)

Event Recording

Video Format: AVI

Stream Type: H.264 (1280 x 720)

Video Length: 10 sec(s)

Alarm Audio Play Settings

Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.

Play Audio: Enable Disable

Alarm Audio Files: alarm_1

Event Settings

Storage Destination: SD Card or Network Storage

Event Duration: the length of time when an event is triggered

Pre-event: Enable or Disable pre-event

Pre-event Buffer: duration: the length of pre-event, 1~3 seconds

Post-event: Enable or Disable post-event

Post-event Buffer: the length of post-event, 1~3 seconds

Event Recording

Video Format: AVI is set

Stream Type: H.264 (1280x720) or H.264 (640x480). The options may vary as it is the settings of current Stream 1 and Stream 2

Video Length: the maximum video length of time per file

Alarm Audio Play Settings

Play Audio: Enable or Disable the alarm audio through the speaker when an event is triggered.

Alarm Audio Files: the sound file to be played when alarm is triggered. Click **Play** to test.

Click **Apply** to save the event settings.

Note: If setting Event Duration to 20 seconds, the camera will keep recording for 20 seconds when an event is triggered. In this case, if the Video Length is 20 seconds, then 1 file will be generated for instance of event. If Video Length per clip is 10 seconds, then 2 files will be generated event. Please note that pre-alarm and post-alarm will extend the length of the clip for the chosen extra length of time.

Event Type: Snapshot (images)

Event Settings

Status Enable Disable

Event Type

Event Duration

Snapshot

Interval

Upload Type SD Card Network Storage FTP E-Mail Alerts

Alarm Audio Play Settings

Note: The device is equipped with external audio connector. Please attach to the speaker for using the function properly.

Play Audio Enable Disable

Alarm Audio Files

Event Duration: the length of time when an event is triggered.

Interval: Select the elapse time between each snapshot, the options are from 5 seconds to 5 minutes

Upload Type: method of storage.

Play Audio: Enable or Disable (enable to play audio file through the speaker when alarm is triggered).

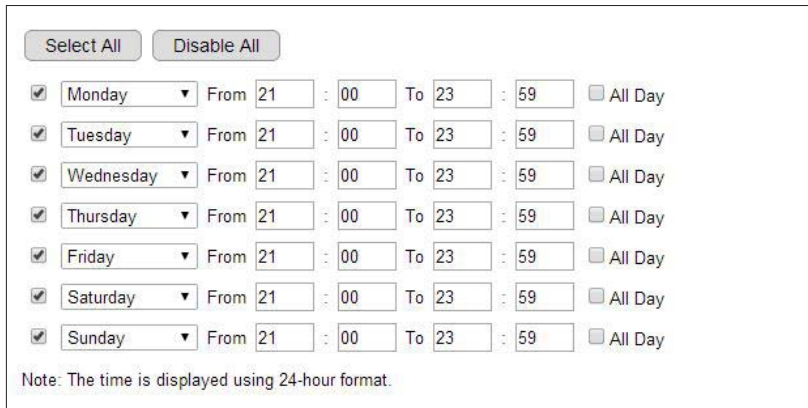
Alarm Audio Files: the sound file to be played when alarm is triggered.

Click **Apply** When complete this step

Event Management >> Schedule Recording

Enable Schedule Recording for proceeding the succeeding settings.

Note: Please disable Event/Alarm ahead of configuring Schedule Recording.



You can specify the time range for each schedule or simply click on **All Day** for 24-hours recording.

You must Select to enable to schedule.

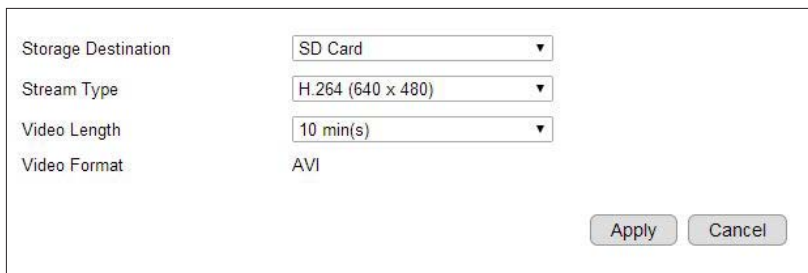
Then continue the recording file settings.

Storage Destination: SD Card or Network Storage

Stream Type: H.264 (1280x720) or H.264 (640x480). This options is based on current video settings for Stream 1 and Stream 2.

Video Length: the maximum video length of time per file

Video Format: the media file format.



Click **Apply** to enable the schedule recording settings.

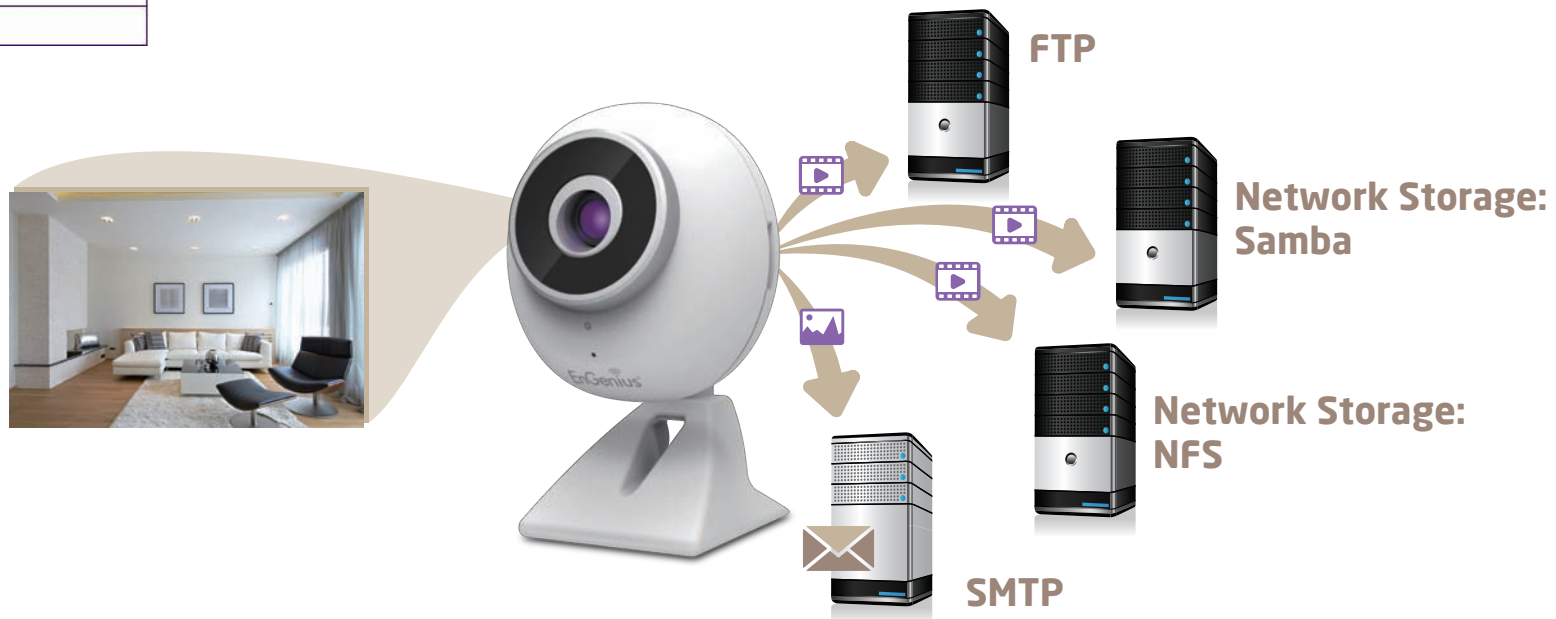
Note: You may have two different schedules for the same day. As shown in the example above, you can have two schedules: Monday 08:00~12:00 and Monday 14:00 ~ 18:00.

Event Server

It is required for you to configure **Event Server** settings after setting camera **Event Management**. You will have to tell where the captured images and video recording are going to be stored. The following concept diagram depicts the flow of the image file when and when captured. The recording file is stored at one of the predefined storage locations while the snapshot can be saved to two storage destinations.

The simplest way to keep the media files is to save on **SD card (see next Chapter)**; however, SD card storage size is relatively limited comparing to other alternatives. On the other hand, **Network Storage** and **FTP** require you to have existing servers ready for upload. **E-Mail Alerts** is good for small image captured since it sends file through email. You should choose what is best for your application.

 Event Server
Network Storage
FTP
E-Mail



Event Server >> Network Storage

This camera supports two types of Network Storage: **Network File System (NFS)** and **SAMBA**.

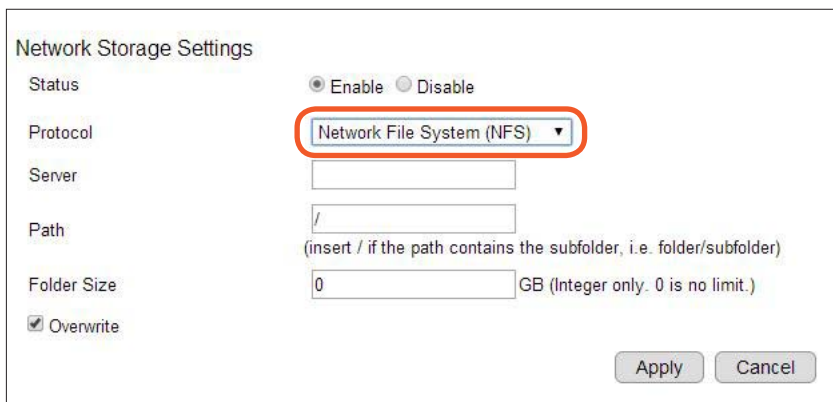
Before going further, you need to **Enable** to configure the Network Storage first.



The screenshot shows the 'Network Storage Settings' dialog box. The 'Status' field has radio buttons for 'Enable' (selected) and 'Disable'. The 'Protocol' dropdown is set to 'SAMBA'. The 'Server' field contains '192.168.0.1'. The 'Path' field contains '/sda1/IP_Camera/motion' with a note '(insert / if the path contains the subfolder, i.e. folder/subfolder)'. The 'Username' field contains 'admin' and the 'Password' field is masked with dots. The 'Folder Size' field contains '2' with the unit 'GB (Integer only. 0 is no limit.)'. The 'Overwrite' checkbox is checked. At the bottom right are 'Test', 'Apply', and 'Cancel' buttons.

Please refer to the following sections for **NFS** and **SMABA**.

Network Storage >> NFS (Network File System)



The screenshot shows the 'Network Storage Settings' dialog box. The 'Status' field has radio buttons for 'Enable' (selected) and 'Disable'. The 'Protocol' dropdown is set to 'Network File System (NFS)'. The 'Server' field is empty. The 'Path' field contains '/' with a note '(insert / if the path contains the subfolder, i.e. folder/subfolder)'. The 'Folder Size' field contains '0' with the unit 'GB (Integer only. 0 is no limit.)'. The 'Overwrite' checkbox is checked. At the bottom right are 'Apply' and 'Cancel' buttons.

Server: IP address of the NFS server

Path: enter the initial path if applicable

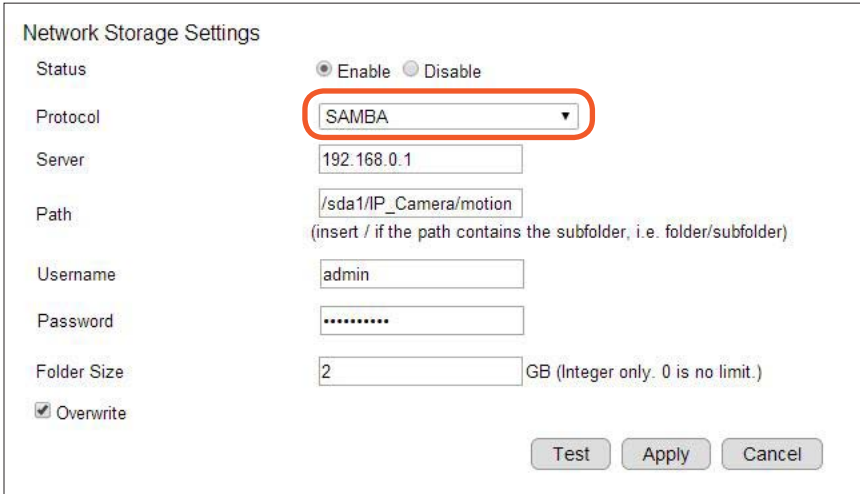
Folder Size: storage allocated for the camera; the default value 0 signifies utilizing full capacity of the storage.

Overwrite: when the defined folder is full, the oldest files will be overwritten to accommodate the new one.

Click **Apply** when done.

Network Storage >> SAMBA

Note: If you are connecting the camera to an EnGenius IoT Gateway or Intelligent Router and have configured the camera profile, the following information will be shown automatically. Refer to [Chapter 6](#) for more details.



The screenshot shows the 'Network Storage Settings' form. The 'Protocol' dropdown menu is highlighted with a red circle and contains the text 'SAMBA'. Other fields include: Status (radio buttons for 'Enable' and 'Disable'), Server (text box with '192.168.0.1'), Path (text box with '/sda1/IP_Camera/motion' and a note '(insert / if the path contains the subfolder, i.e. folder/subfolder)'), Username (text box with 'admin'), Password (text box with '*****'), Folder Size (text box with '2' and 'GB (Integer only. 0 is no limit.)'), and an 'Overwrite' checkbox which is checked. At the bottom right are 'Test', 'Apply', and 'Cancel' buttons.

Server: IP address of the SAMBA server

Path: enter the initial path if applicable

User Name: username for accessing SAMBA server

Password: password for accessing SAMBA server

Folder Size: storage allocated for the camera; the default value 0 signifies utilizing full capacity of the storage.

Overwrite: when the defined folder is full, the oldest files will be overwritten to accommodate the new one.

Click **Test** to verify the connection with the server using the username and password.

Click **Apply** when you have completed the settings.

Event Server >> FTP (File Transfer Protocol)

FTP Settings

Server IP address	<input type="text"/>	e.g. 192.168.0.100
Port	<input type="text" value="21"/>	
Username	<input type="text"/>	
Password	<input type="password"/>	
FTP Path	<input type="text" value="/"/>	(insert / if the path contains the subfolder, i.e. folder/subfolder)

Server: IP address of the FTP server

Port: the FTP server port; default port is 21

User Name: username for accessing FTP server

Password: password for accessing FTP server

FTP Path: enter the initial path if applicable

Click **Test** to verify the connection with the server using the username and password.

Click **Apply** when you have completed the settings.

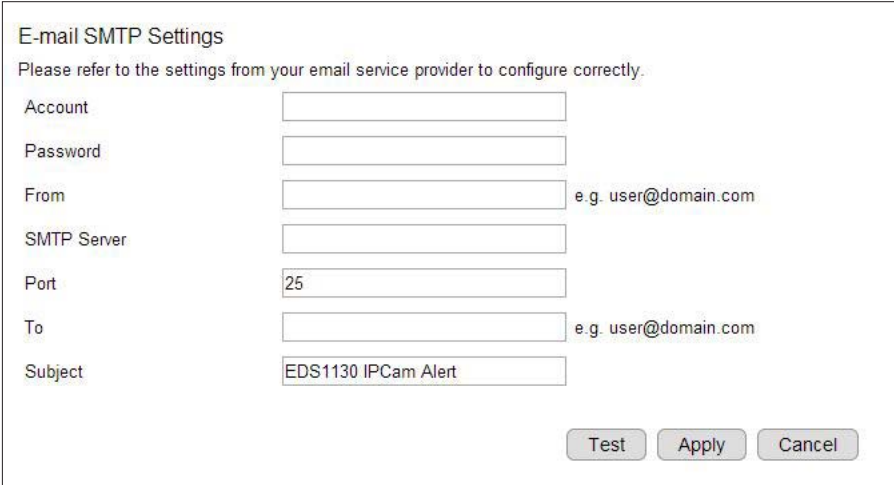
Event Server >> E-mail Alerts

EDS1130 allows camera to send captured snapshots to the predefined e-mail to notify an event triggered by configured motion or audio detection.

SMTP is an email sender's server. You need to check whether your e-mail service provider supports SMTP and obtain the required information for this setting.

Note: The function doesn't support the SMTP server secured by SSL. Please verify your e-mail provider settings ahead.

The snapshots settings can be configured under Chapter 6.1.3 Event Management → Event Settings → Event Type.



The screenshot shows a configuration window titled "E-mail SMTP Settings". Below the title is a note: "Please refer to the settings from your email service provider to configure correctly." The window contains several input fields: "Account" (empty), "Password" (empty), "From" (with a placeholder "e.g. user@domain.com"), "SMTP Server" (empty), "Port" (with the value "25"), "To" (with a placeholder "e.g. user@domain.com"), and "Subject" (with the value "EDS1130 IPCam Alert"). At the bottom right, there are three buttons: "Test", "Apply", and "Cancel".

Account: the e-mail account name; if your e-mail is myemail@domain.com, **myemail** is the account name.

Password: the password you use to login into your e-mail box.

Sender: you can type in your e-mail address or other address if you would like the receiver to reply the e-mail to.

SMTP Server: enter the SMTP server address (e.g. smtp.domain.com).

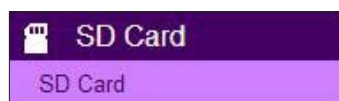
Port: enter SMTP server port (normally the value is 587 or 465)

Receiver: enter the receiver e-mail here (usually your or the administrator's e-mail).

Subject: enter the email subject here.

SD Card

With the onboard SD card slot, the camera provides another simple options for managing media files.

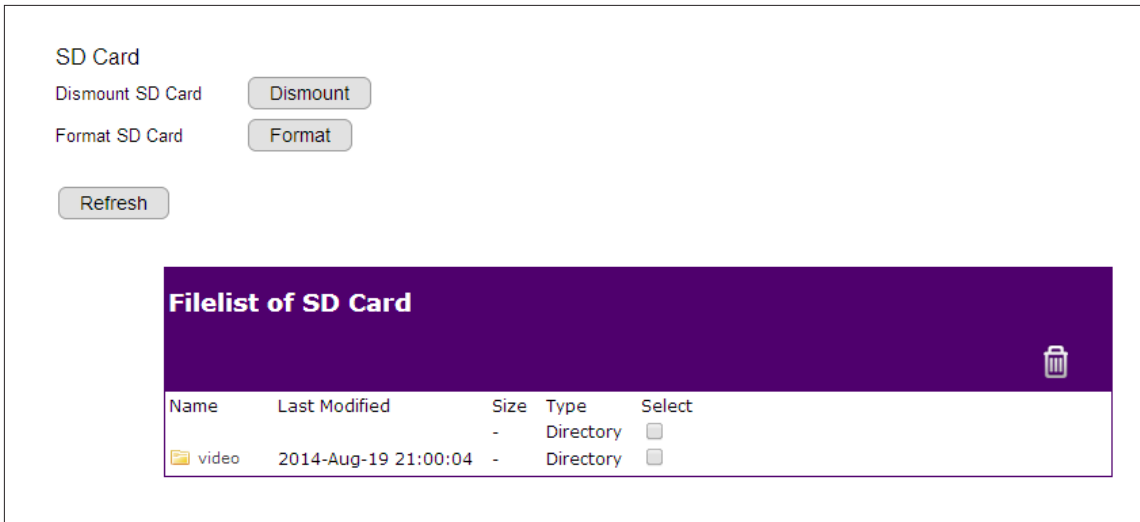


You will be seeing the file list after the SD card is inserted securely. If not, refresh the page by clicking on **Refresh** button and double check if the Micro SD card has been properly attached.

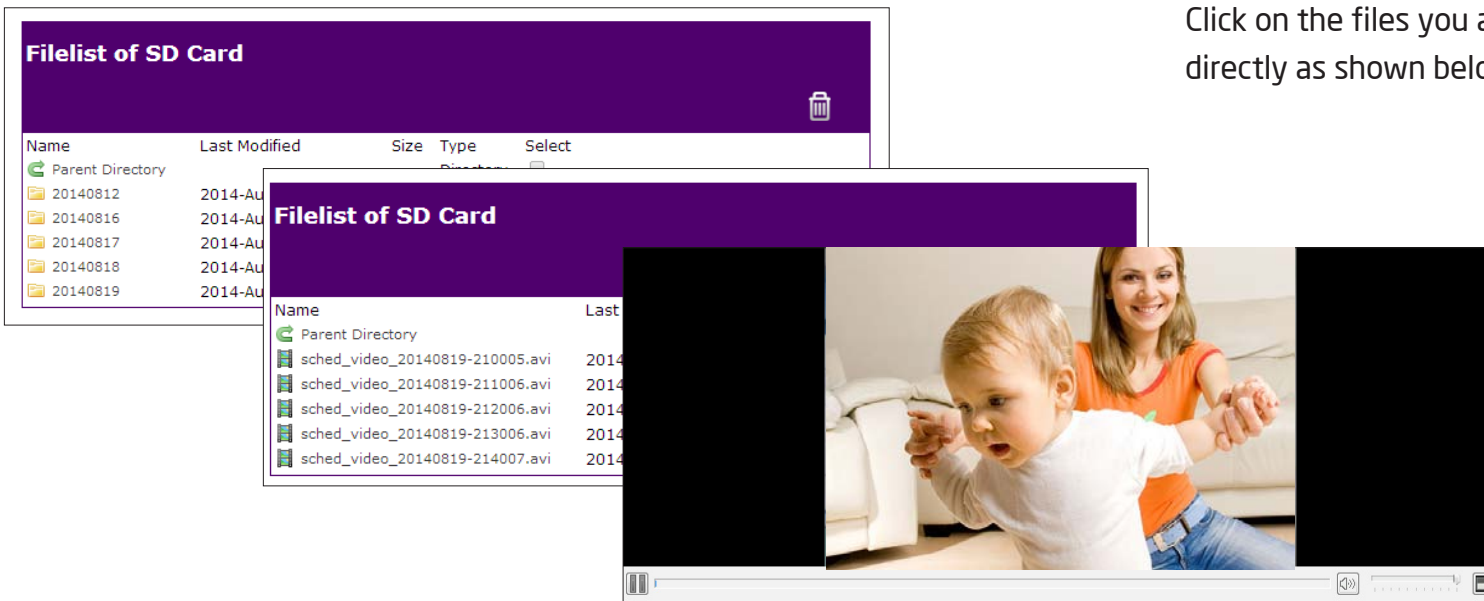
Default folders named **snapshot** and **video** will be created automatically upon the camera stores the media files.

Dismount: you should dismount the SD card before physically removing it from the slot to avoid file damage.

Format: You can clean a SD card by formatting it (all data will be erased).



You can browse through the folder like any other file manager by clicking on the folder name.



Click on the files you are looking for and view it directly as shown below.



Delete function: Select the folder/file(s) and then click on the icon to **REMOVE** them from the SD card.

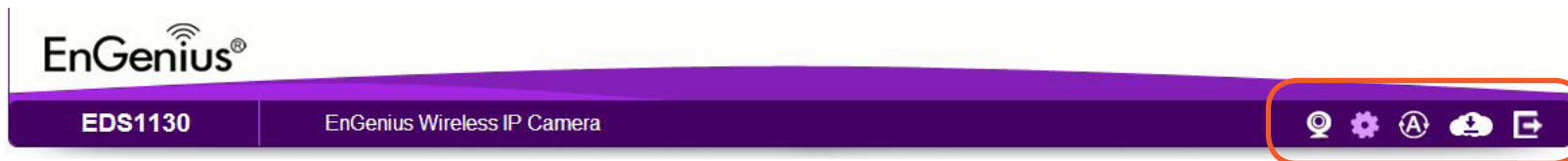
User Management

User Management >> User Account

 User Management
User Account
Push Message Mobile List

There are two types of user accounts: **Administrator** and **Viewer**. Administrator has full control over the camera settings while viewer only has the accessibility of watching the real time video. Viewer account is particularly useful when you have multiple users such as other family members. You may have many administrators as well as viewers depends on your needs.

Administrator has full control of the camera interface with configuration features as shown below.



Viewer only has basic camera view interface.



User List			
Select	No.	Username	Authority
<input type="checkbox"/>	1	admin	Administrator
<input type="checkbox"/>	2	guest	Viewer

User List provides the overview of the account currently registered to the camera.

Add Account

Click **Add** for adding a new account.

User Settings	
Username	<input type="text" value="Aloha"/>
Password	<input type="password" value="....."/>
Confirm Password	<input type="password" value="....."/>
Authority	<div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #e0e0e0; padding: 2px;">Administrator ▼</div> <div style="padding: 2px;">Administrator</div> <div style="background-color: #0070c0; color: white; padding: 2px;">Viewer</div> </div>

User Name: enter the username for the new account

Password: enter password

Confirm Password: enter password for confirmation

Authority: select Administrator or Viewer from the dropdown menu.

User List			
Select	No.	Username	Authority
<input type="checkbox"/>	1	admin	Administrator
<input type="checkbox"/>	2	guest	Viewer
<input type="checkbox"/>	3	Aloha	Viewer

Click **Apply** to add the user

And the new account should be shown on the User List now.

Edit Account

To edit the existing account, **Select** a user from the list by click on the check box.

Click **Edit** to change the user account setting.

Select	No.	Username	Authority
<input type="checkbox"/>	1	admin	Administrator
<input type="checkbox"/>	2	guest	Viewer
<input checked="" type="checkbox"/>	3	Aloha	Viewer

Enter the new password and define the authority for the selected account.

Once all necessary changes are made to the accounts, click **Apply** to make the changes affectively.

User Settings	
Username	<input type="text" value="Aloha"/>
Password	<input type="text"/>
Confirm Password	<input type="text"/>
Authority	<input type="text" value="Viewer"/>
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Delete User

On the user list, **select** user account(s) to be deleted.

Click on **Delete Selected** or **Delete All** if you have ticked multiple accounts.

Select	No.	Username	Authority
<input type="checkbox"/>	1	admin	Administrator
<input type="checkbox"/>	2	guest	Viewer
<input checked="" type="checkbox"/>	3	Aloha	Viewer

When prompted with delete confirmation, click **OK** to delete.

