

Internet Explorer Operating Instruction Manual

HawkCam



Falcon Watch

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1. Brief introduction of IE browsing operation

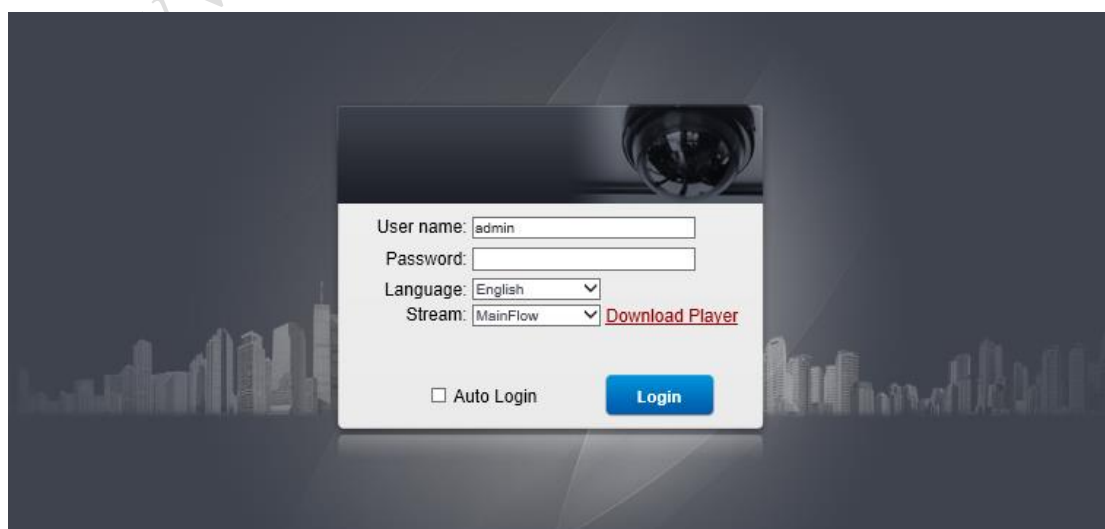
As Internet Explorer is a webpage explorer of the Microsoft Windows Operating System, and our video camera is internally provided with the WEB service, you can use IE (Internet Explorer) to visit the video camera, preview images in the video camera and set parameters of the video camera.

1.1. Installation of plug-ins and login

When IE is used to access the video camera for the first time, images of the video camera cannot be previewed because necessary plug-ins are not installed. You will be prompted to download the player when you login. Simply follow these steps to install the plug-ins necessary for IE to fully manage the camera's settings.

- (1) First connect directly to the camera's network by going to wireless settings on your PC and connecting to the network IPCAM-AP-xxxxx-xxxxx
- (2) Run IE and input the video camera's IP address (192.168.234.1/) in the url field of IE.
NOTE: If the Camera is already connected to your wireless network you must first find the IP address assigned by your router's DHCP server. Router configuration is out of the scope of this manual.
- (3) After the successful access to the video camera, a login page will appear, default username and password are 'admin' and is case sensitive in both cases.
- (4) Choose the language either English or Chinese.
- (5) Stream: Choose Main Flow
- (6) Click on Login

NOTE: First time you login, download the player and then run the application to install it on your local computer. Then login again and click auto login to avoid seeing the below screen again on subsequent logins.



2. IE menu introduction

The Camera's IE interface is composed of five main functional areas, respectively including a Home, Replay, Media, Parameters, System.



There are two options at the top-right of the screen; "Download Player" to download the necessary plugins, and "logout" to log out and return to the login.



2.1 Home

The Home screen is the default page when you login to the application; images of the video camera are displayed in the middle of the Screen; an operating panel is located at the top-left and right side of the image; and the detailed functions are as follows:



Recording button: video recording is started after clicking the button; video recording is ended by clicking the button again; the video is stored in the SD card in an AVI format; the recorded file not only can be played by any video player that supports H.264 code, but also by the Avi-Replayer of the video camera.



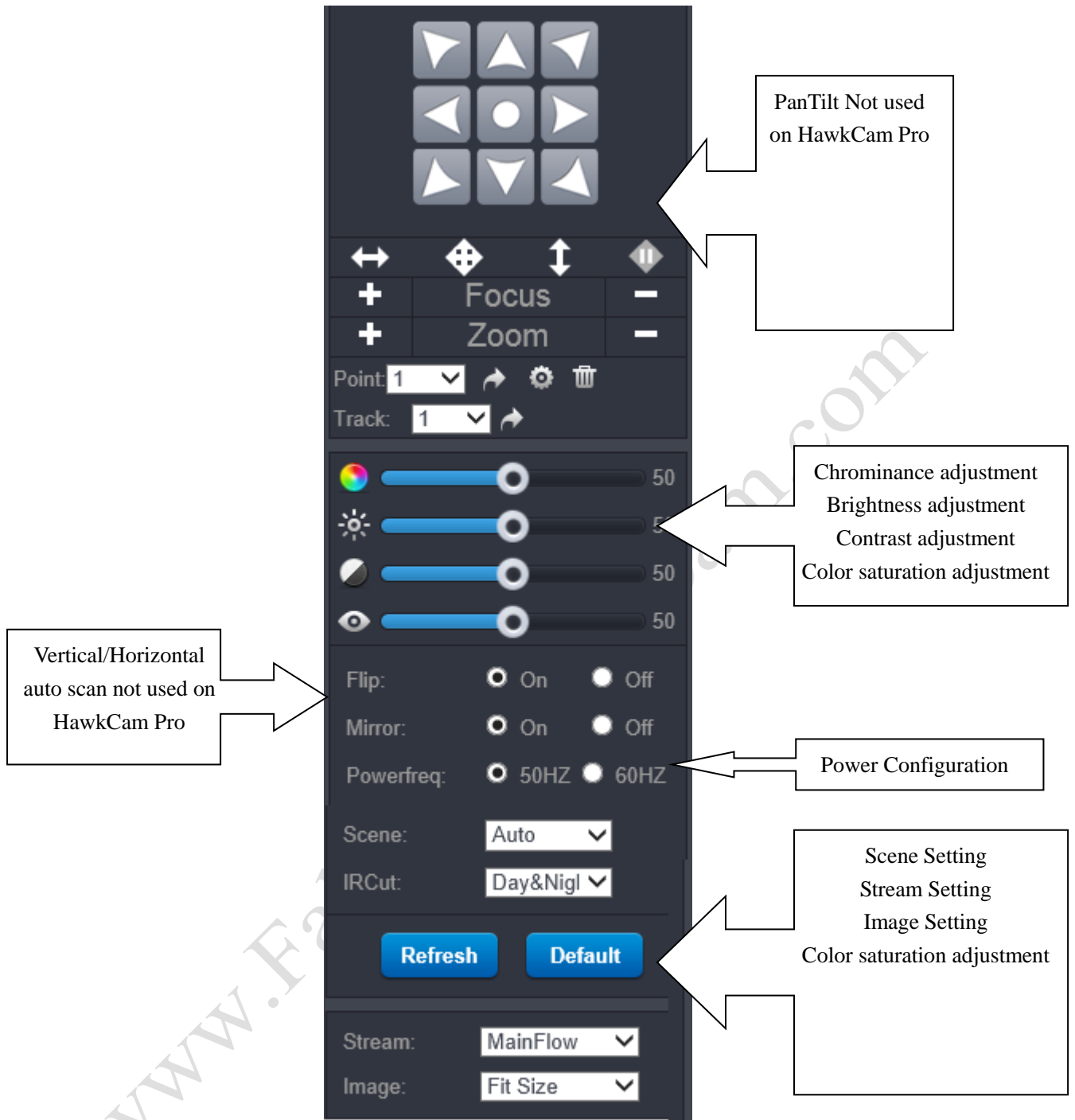
Snap-shot button: by clicking the button, you can take a snap-shot of the current screen and store it on the SD card in a BMP format;



Talk button: by clicking the button, sound from a mic connected from your computer can be sent to the camera; a mic icon will appear in the camera's image when the talk is turned on; the talk is turned off by clicking the button again.

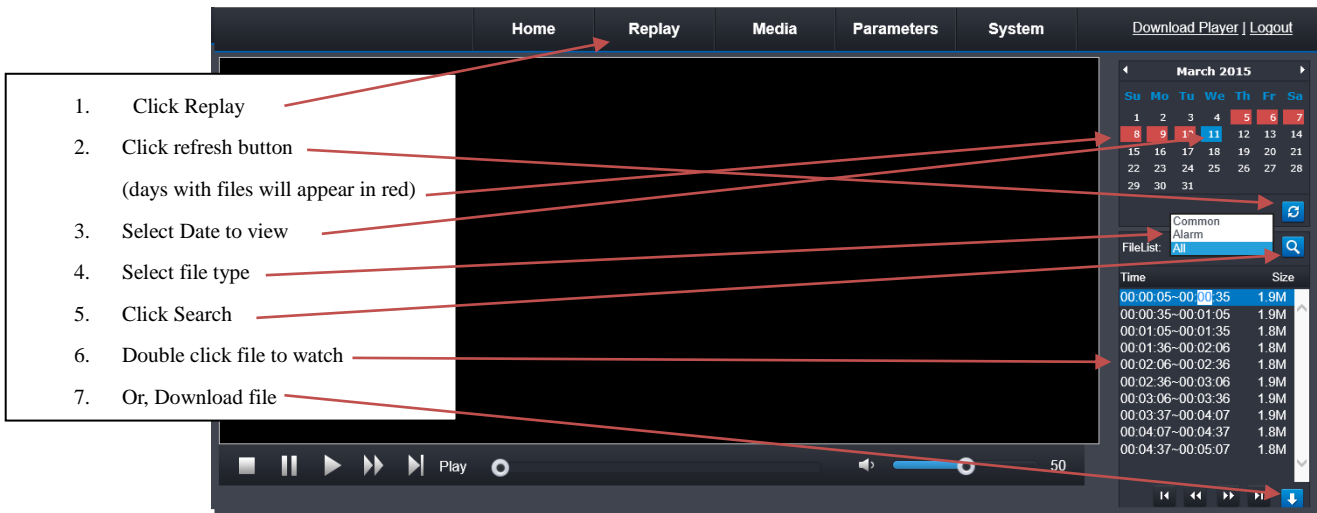


Speaker button: by clicking the speaker button, sound picked up from the cameras mic will be heard on your local speakers; audio is turned off by clicking the speaker button again.



2.2 Replay

The replay interface is only used if you have inserted an SD card for local camera file storage; when the SD card is inserted, the video camera will store video files on the card, you can play the videos in the replay window using the below steps:

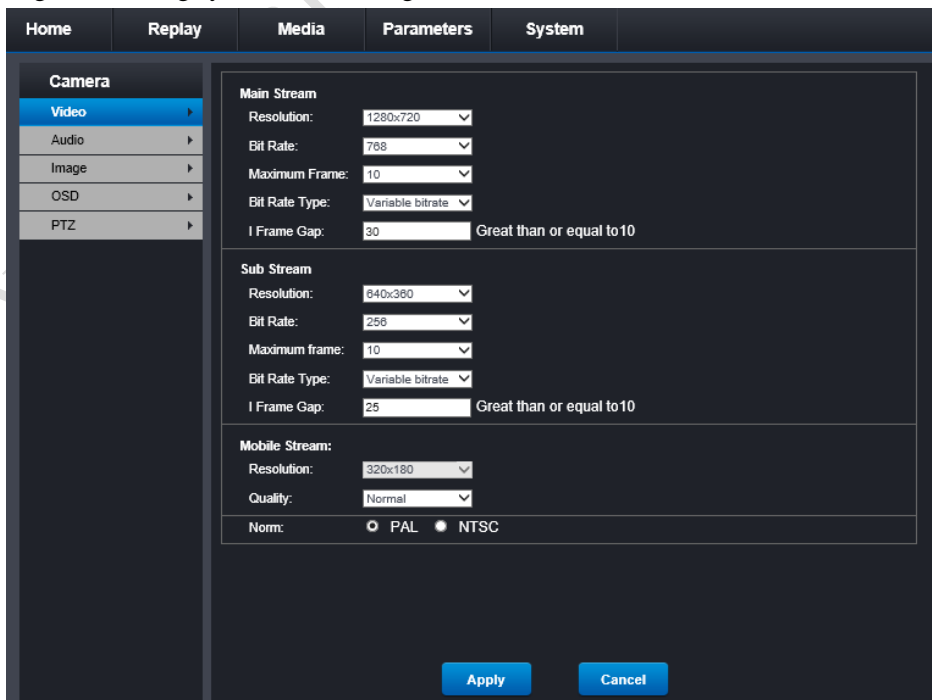


2.3 Media Settings

The media settings menu allows you to control video streams, audio encoding, image saturation and On Screen Display options.

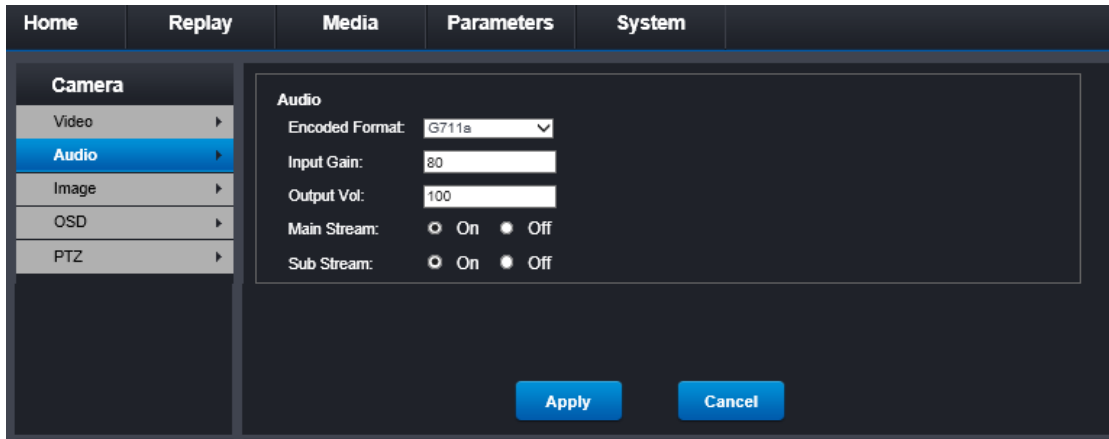
2.3.1 Video Settings

The video settings allow you to adjust the video quality based on bandwidth available and screen sizes. We recommend leaving these settings as they are unless you are very advanced in knowing what settings you want to change.



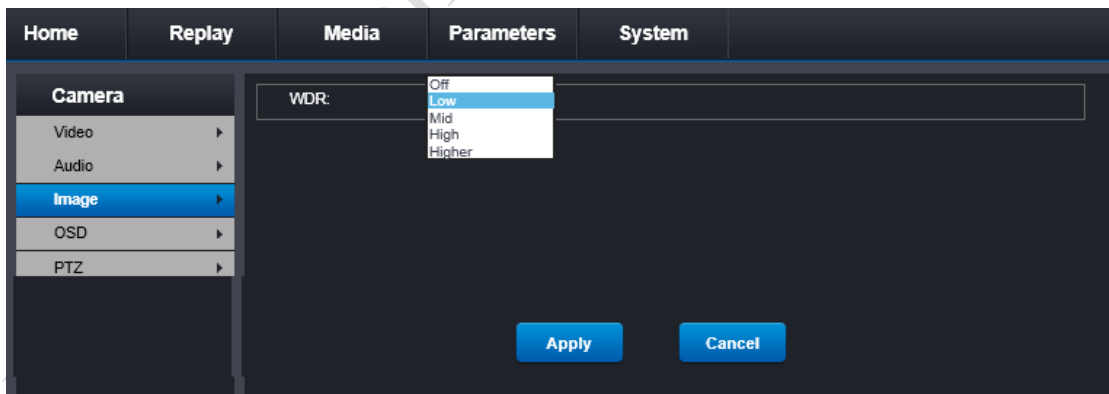
2.3.2 Audio Settings

The audio settings allow you to control how the audio is encoded. We recommend the default settings unless the user has advanced knowledge of how they want the audio configured.



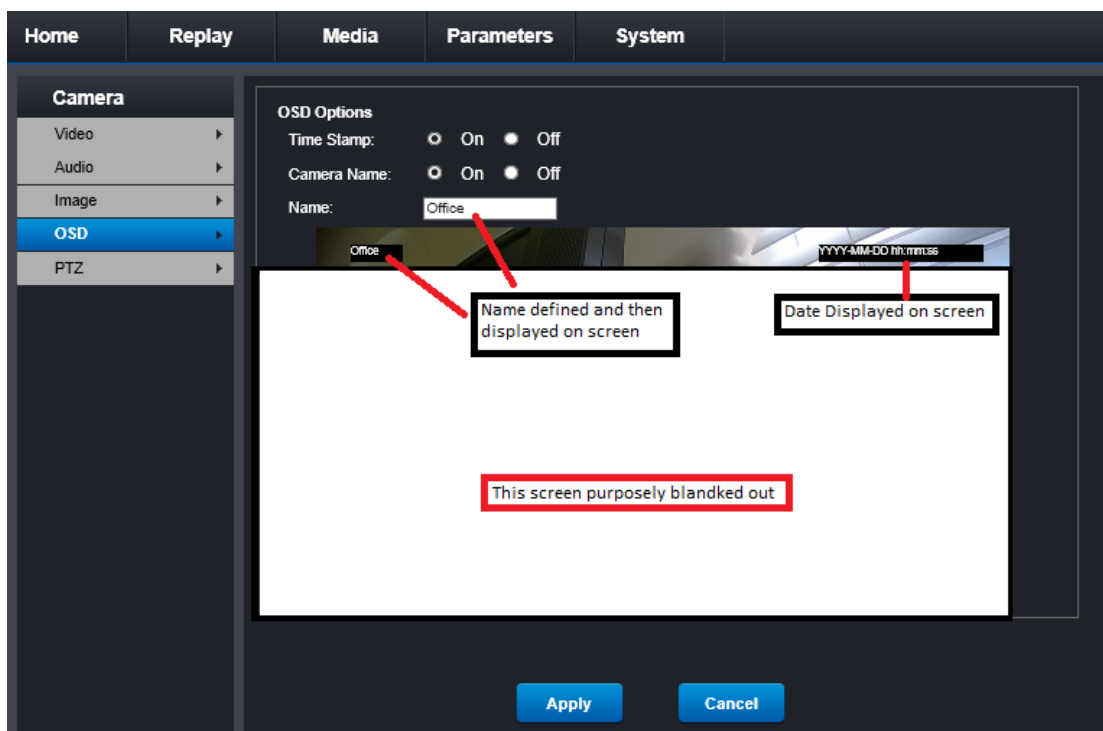
2.3.3 Image Settings

Wide dynamic range (WDR) describes an attribute of an camera system that can record greater scene details, from shadows to highlights than normal. If your camera has bright AND dark areas in the screen, you can adjust this setting until the shadowy areas are more visible to your liking.



2.3.4 On Screen Display (OSD)

The onscreen display area allows you to change the information displayed on your images and recordings. You can turn on/off the camera's name and a time stamp through this screen. You can also customize the name that appears on the screen to more descriptively identify what is seen onscreen.



2.3.5 Pan Tilt and Zoom (PTZ)

Pan Tilt Zoom features are not available on the HawkCam Pro.

2.4 Parameter Setting

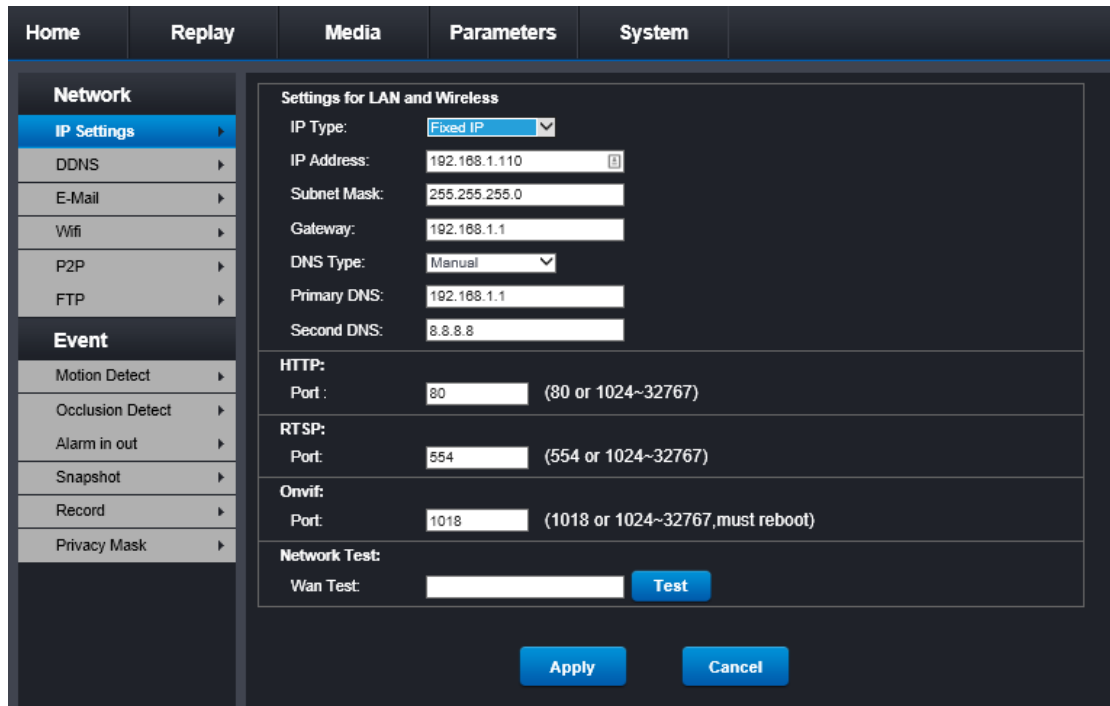
Parameter settings screens are where the real power comes into the HawkCam Pro. There are two main areas in the Parameter settings, Network and Events. They control:

2.4.1 IP Settings

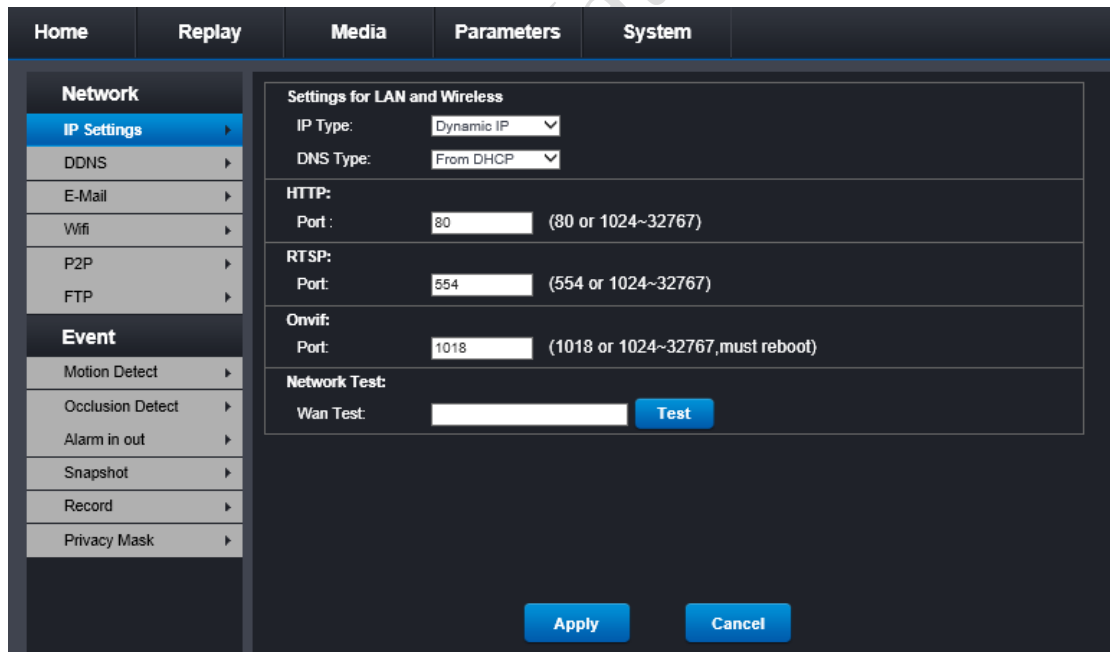
IP settings are critical to the proper function of your camera over the Internet and can cause major problems when trying to connect to your local wifi Network. There are two main configurations:

Fixed IP: If you are advanced in network configuration, you may want to set this to a fixed IP address on your network. **CAUTION:** Duplicate IP addresses can cause very erratic behavior on your network such as cameras coming online and offline randomly.

Sample fixed IP configuration is shown here with IP, Subnet Mask, Gateway and DNS options configured. HTTP, RTSP and ONVIF ports configured the same for both fixed and dynamic settings.



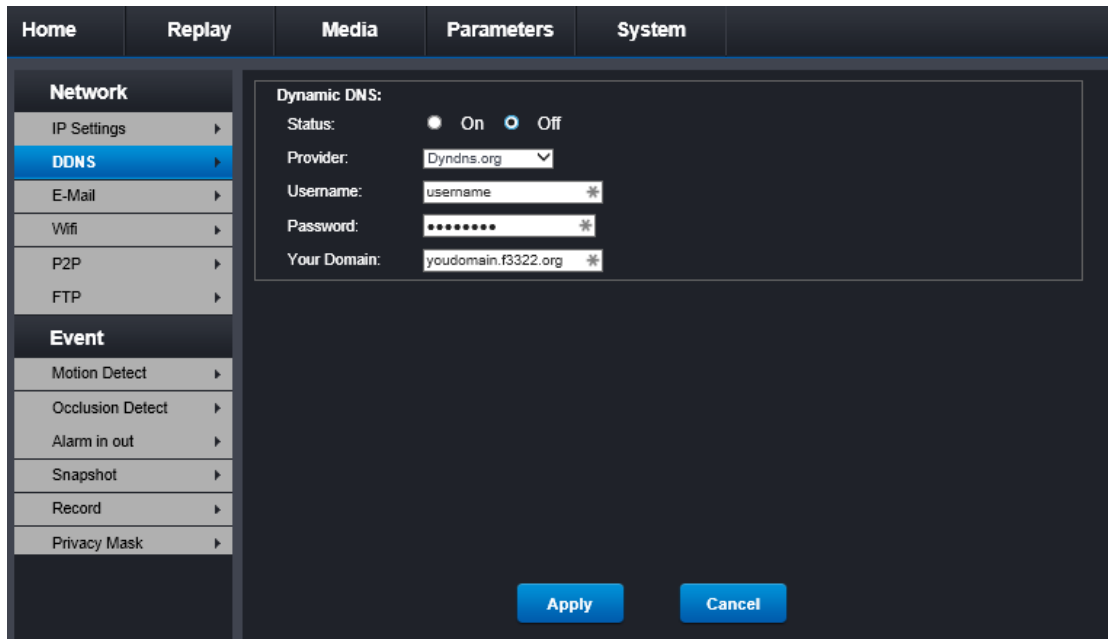
This is an example of a dynamic setup for IP Settings and the recommended setting. This will allow your router to select the best configuration settings to adapt to your network easily.



2.4.2 Dynamic Domain Name Server (DDNS)

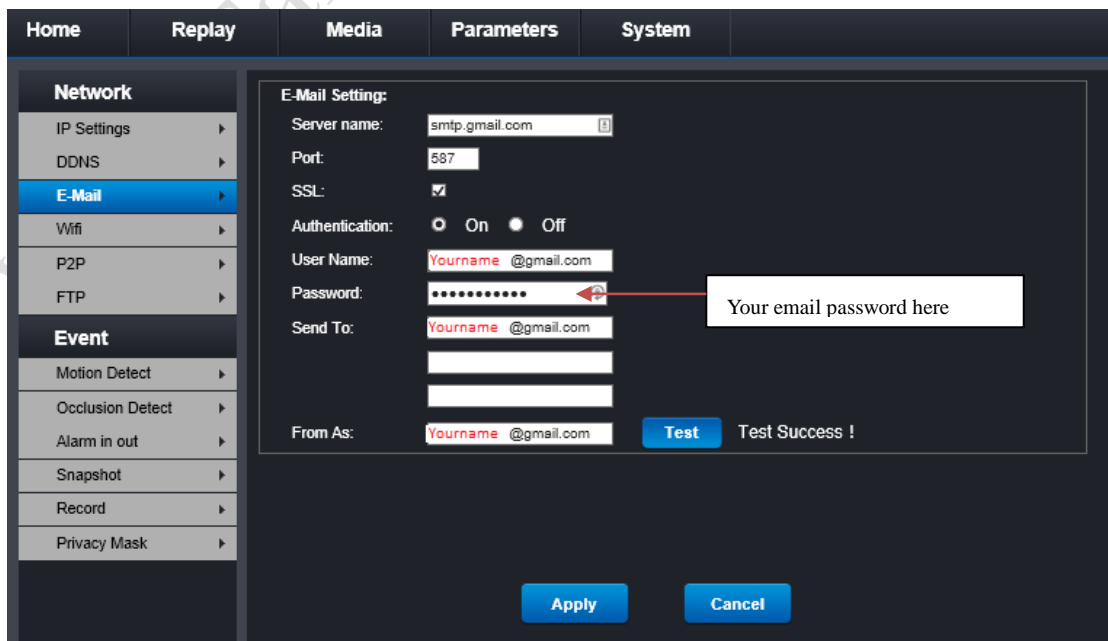
The dynamic Domain Name Server is designed to update public name services with your external IP address for your router. This is a supplemental paid service that can make it easier to access your camera and other devices on your home network. This field only allows the service

to be updated when your external IP address changes by your Internet Service Provider. The rest of the DDNS is configured through port forwarding the ports identified above in the IP settings through your router. NOTE: Router configuration and port forwarding is outside the scope of this document. More information can be found [HERE](#).



2.4.3 E-Mail Settings

Email settings are for sending and receiving alerts by email when configured correctly. Configuration settings for gmail accounts is shown below. If you have a different mail service, do an internet search on the proper settings to configure your mail provider's smtp settings.

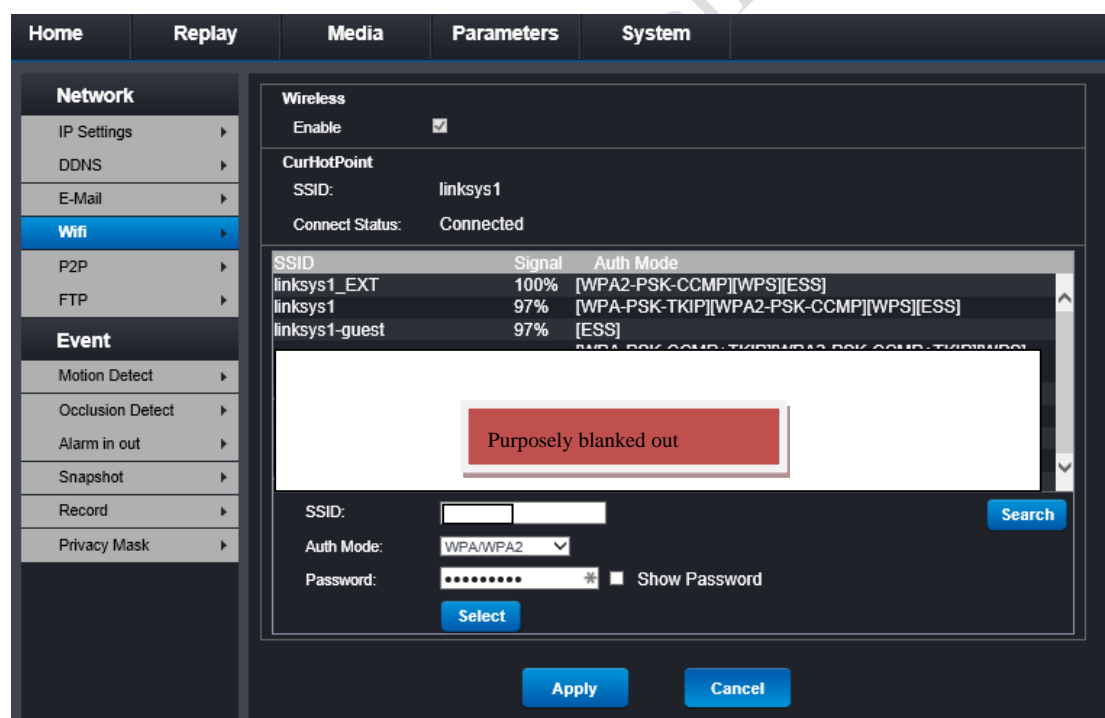


2.4.4 WIFI Settings

Connecting to your wifi network is fairly easy when the IP Settings is correctly configured. The #1 problem with setup is not being able to connect to your home wifi. The vast majority of the time, the problem is that the camera is set for fixed IP instead of dynamic IP. Please make sure you are configured correctly in IP settings before trying to change the settings here.

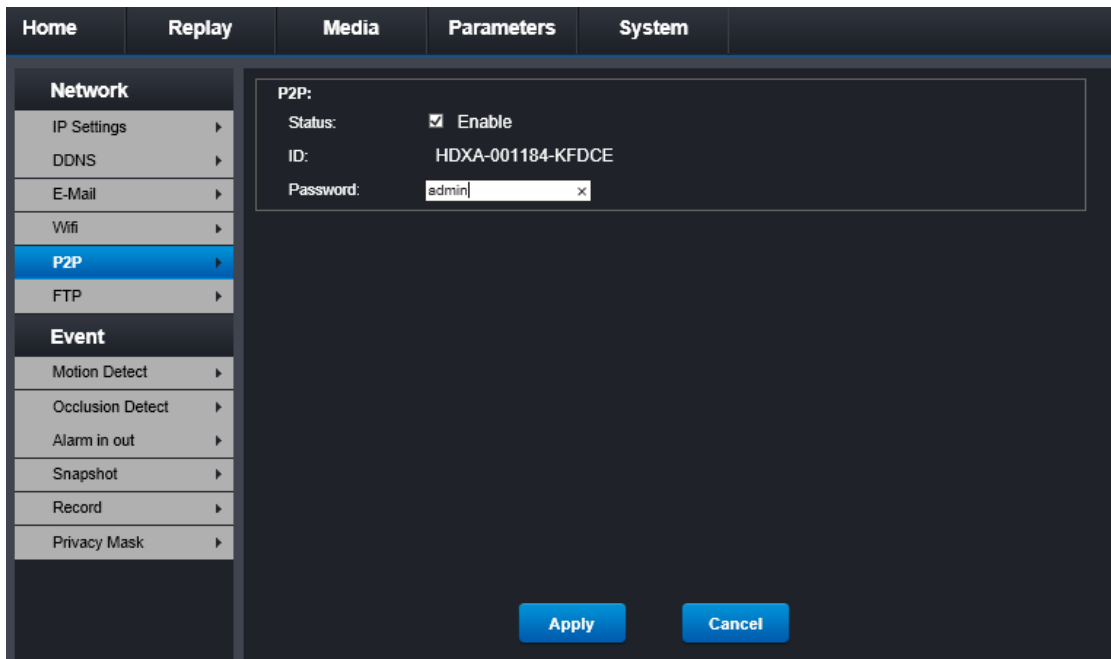
You must also know your wireless network's password in order to join it. Setup steps are:

1. click on the wifi menu option on the left side of the screen.
2. Wait for the camera to find the available networks near it
3. Click on the wifi you want to join (if clicking doesn't populate the fields under the search results, you may have to manually type the information into the fields. The authentication method is displayed to the right of your network.)
4. Enter password for your wifi network
5. Click 'Apply'
6. Wait 2 minutes for the camera to join your network. You can tell that it has joined by looking at the blue light on the front of the camera. Solid blue means it has joined, slow blinking means it failed to join. 3 fast blinks and pause means it is still booting.



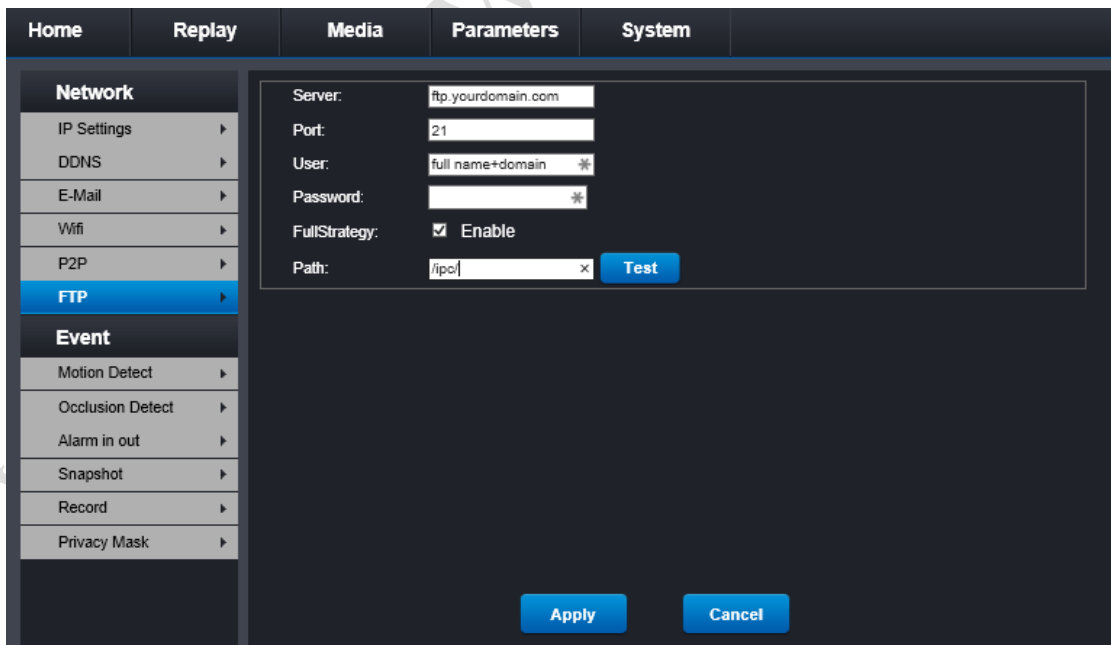
2.4.5 P2P (point to point)

Point-to-Point is how your mobile devices and the monitoring app connect to your camera. This field is where you configure the admin password that is allowed to connect and make changes to the camera. NOTE: Default password of 'admin' is displayed in the picture below. You should change this as soon as your camera has connected to your network.



2.4.6 FTP (File Transfer Protocol)

The FTP settings are for cloud storage or monitoring service providers to allow for your pictures and videos to be stored in the cloud. This is an optional setting.

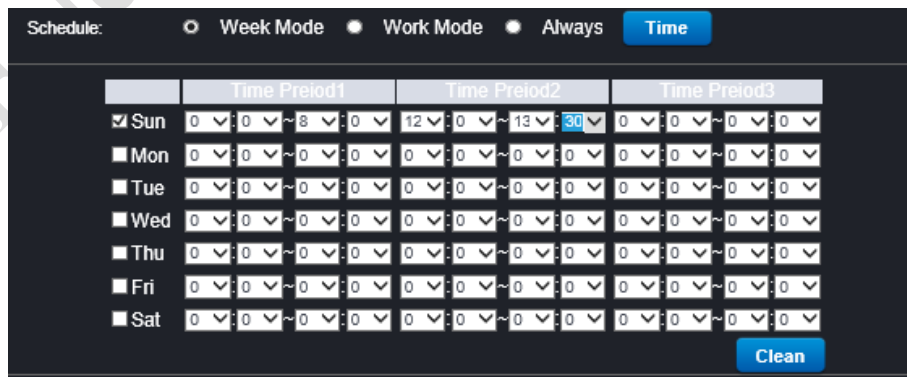


2.4.7 Motion Detect

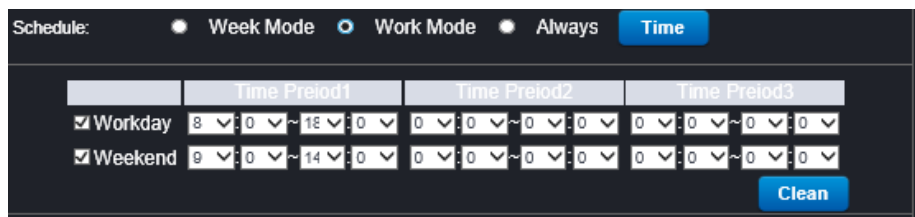
Motion detection settings for the camera are:

1. Select to enable the motion detect feature at the top of the screen

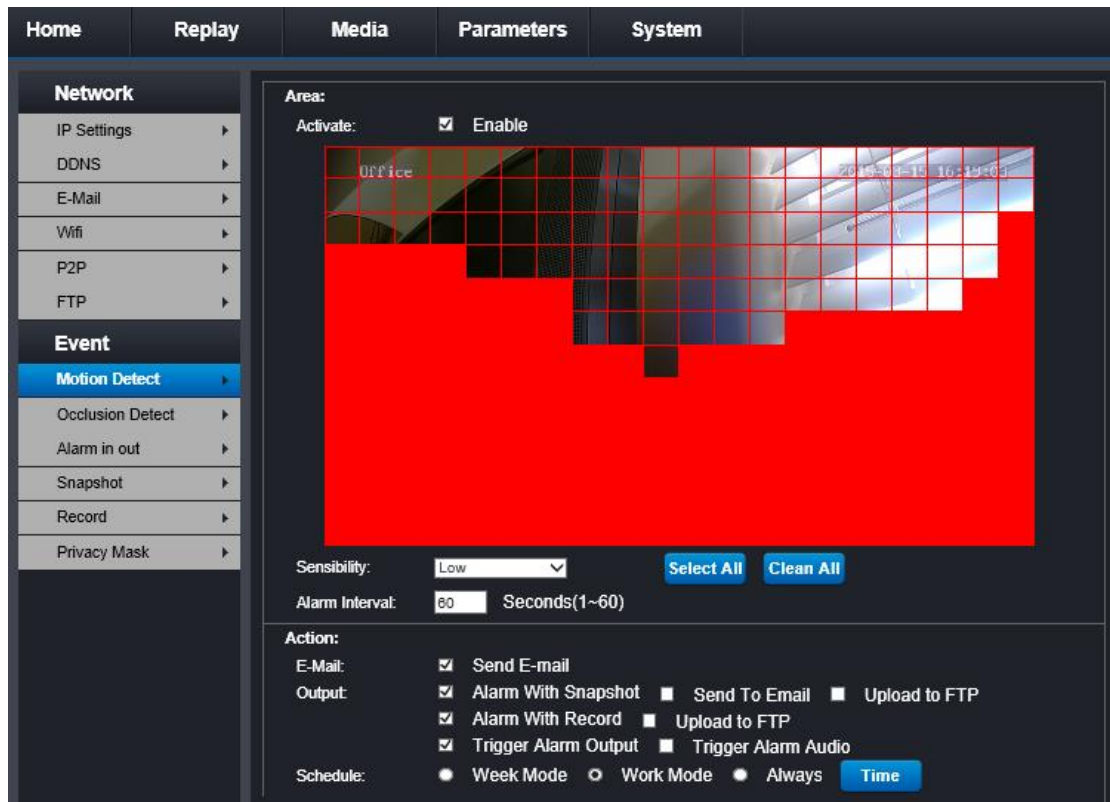
2. Define the area that will trigger an alarm. Areas covered in red trigger the alarm, areas you see the screen will not trigger the alarm.
 - a. Select the sensitivity of the camera to detect movement.
 - b. Select how often the camera will trigger for when it detects the movement.
 - c. Select all areas of the screen to detect or...
 - d. Select to clear all areas and then work backwards
3. Select the action to take upon alarm detection:
 - a. Send just an email with no attachments announcing the alarm
 - b. Send the alarm with a snapshot of what triggered the alarm
 - i. Send the alarm with snapshot to email configured on camera
 - ii. Upload the alarm and snapshot to the cloud service if defined
 - c. Alarm with recording attached that triggered the alarm
 - i. Upload the recording to the cloud service if defined.
 - d. Trigger the alarm output – if the camera is part of a bigger security system, you can send alarm triggers to other devices or to an audio device like a siren.
 - e. There are multiple time settings which are used to tell the camera when the motion detection is active or not. NOTE: Leaving the motion detect with emails turned on during normal daily activity will fill up your inbox with an enormous amount of traffic. Consider the time settings carefully.
 - i. Week Mode: Allows you maximum flexibility. Make sure to check the box to the left of the day to turn that day on or off and then set up to 3 time periods during the day to be active. NOTE: The first box is hour and then minute to turn on motion detect and the 3rd and 4th box is the hour and minute to turn off the motion detect. This is repeated 2 more times for time periods 2 and 3. Times are based on a 24 hour clock and can be shown by clicking on the time button. See demo below.



- ii. Work Mode: Allows you to configure the camera for a work week schedule and a weekend schedule.

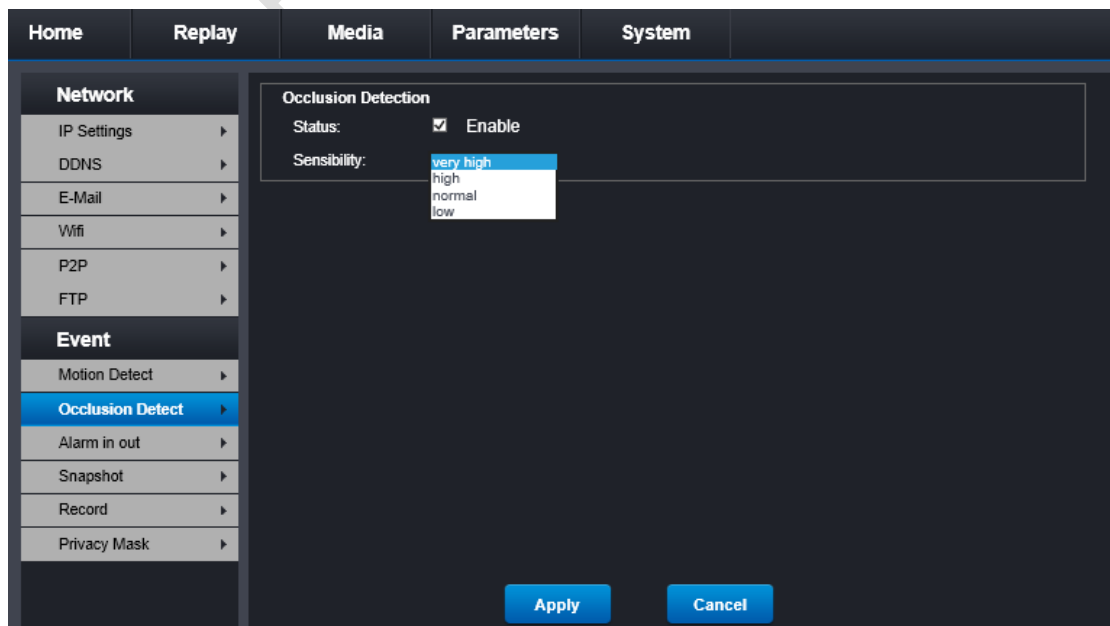


iii. Always: The motion detect is always on.



2.4.8 Occlusion Detect

Occlusion Detect allows the camera to sense when something is blocking the camera's normal viewing range. If something is detected blocking the camera, an alarm will be sent to the configured email address. Normal setting is usually the best setting.



2.4.9 Alarm in/out

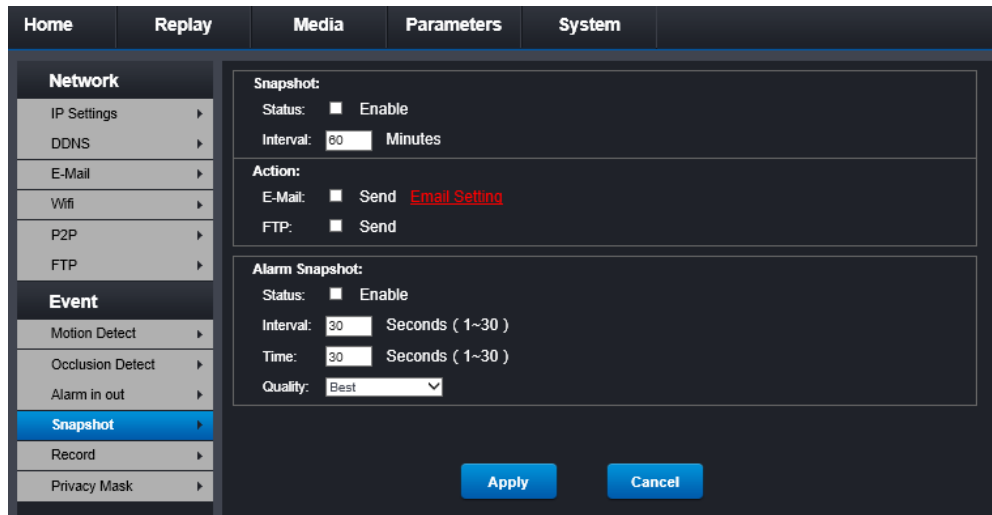
Alarms are mainly for larger security systems where the alarms from a door contact or motion detector turn the camera on and where the camera can turn on other parts of the system like a flashing light or siren. Please contact a qualified security service for more details about how to configure these settings.

The screenshot shows the 'Alarm in/out' configuration page in the IE camera web interface. The interface is dark-themed with a sidebar on the left and a main content area on the right. The sidebar has sections for 'Network' (IP Settings, DDNS, E-Mail, Wifi, P2P, FTP), 'Event' (Motion Detect, Occlusion Detect, Alarm in out, Snapshot, Record, Privacy Mask), and 'Parameters' and 'System' tabs. The 'Alarm in/out' page is active, showing settings for 'Alarm In' and 'Alarm Out'. 'Alarm In' settings include: Status (Enable), Active Mode (Low), and Alarm Interval (10 Seconds). 'Alarm Out' settings include: Status (Enable), Active Mode (Grouned), and Time (10 Second). Action options include: Send E-Mail, Alarm With Snapshot, Alarm With Record, and Trigger Alarm Output. Schedule options include: Week Mode, Work Mode, and Always. There are 'Apply' and 'Cancel' buttons at the bottom.

2.4.10 Snapshot

The snapshot screen is to set a your still picture settings.

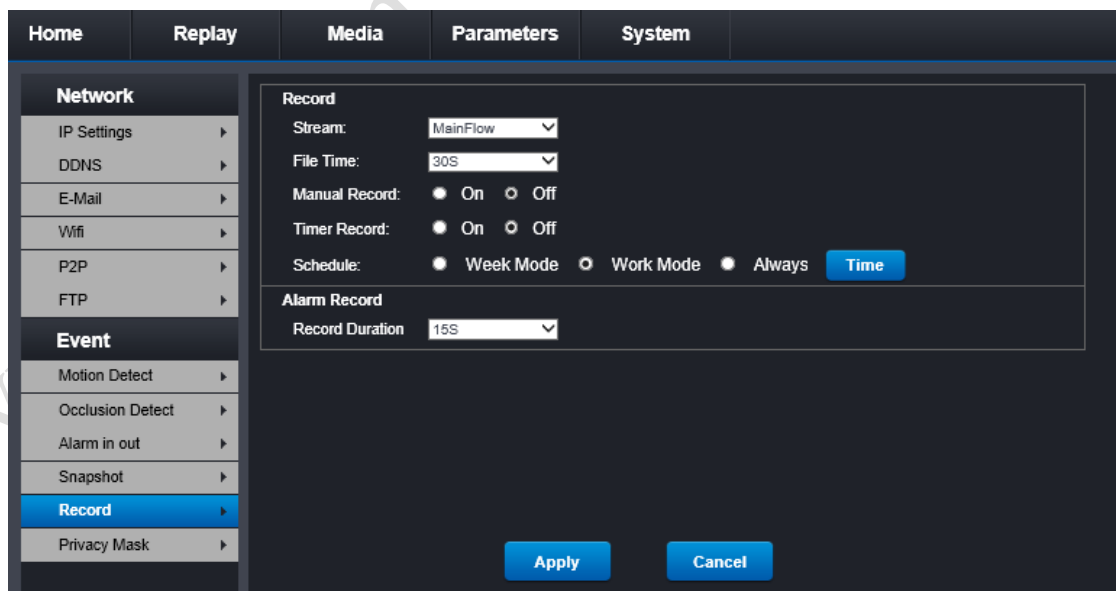
1. Snapshot – enable this option to take a snapshot of what your camera sees every xx minutes.
2. Action – tell the camera what to do with the snapshot when it takes the picture. Options are email the snapshot to a defined email list or upload it by FTP to a cloud service.
3. Define the activity when alarmed and the intervals.



2.4.11 Record

Record menu allows you to define the stream. Mainflow takes up more bandwidth but is the highest resolution, the substream is more bandwidth friendly. File time is how long the recorded files will be when recording. Options are from 30seconds to 10 minutes. Select manual and timer record as on or off for this feature. You can set the times the recordings will occur. NOTE: the scheduler works the same as the motion detect timer settings.

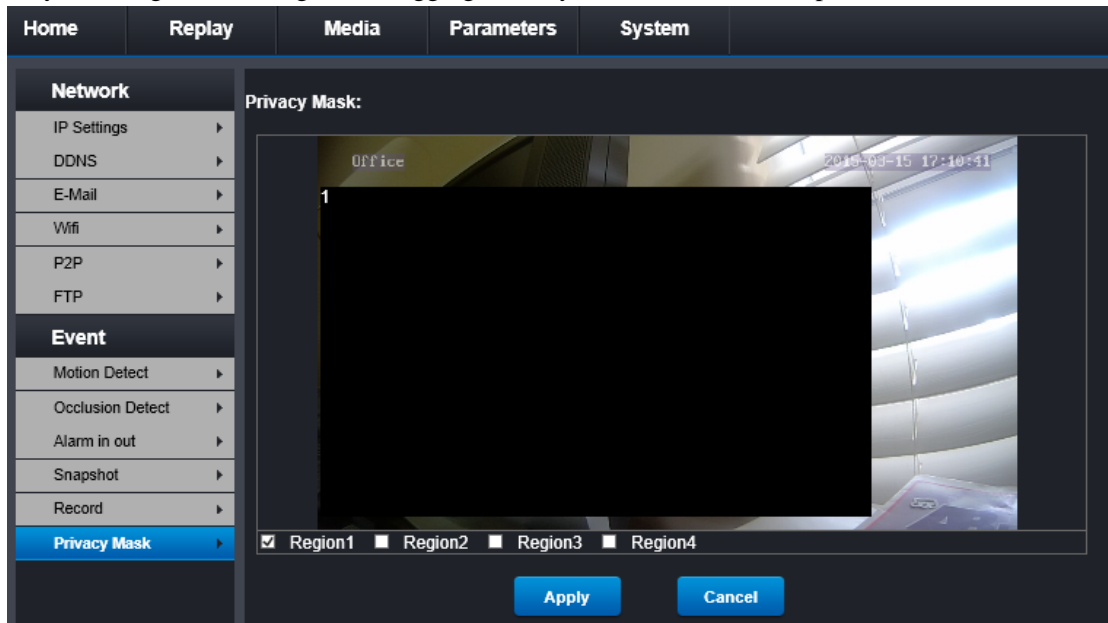
The alarm record duration is how long the camera will record when it responds to an alarm situation.



2.4.12 Privacy Mask

The privacy mask is used to black out parts of the recorded screen for privacy reasons. This is usefull for doors that require a combination to be punched in to open. To avoid the

combinations from being recorded, you would define a privacy mask and cover the keyboard of the door security. You can define up to 4 areas for privacy masks. Each area can be dragged larger by hovering over the edge and dragging where you like it. See example below.

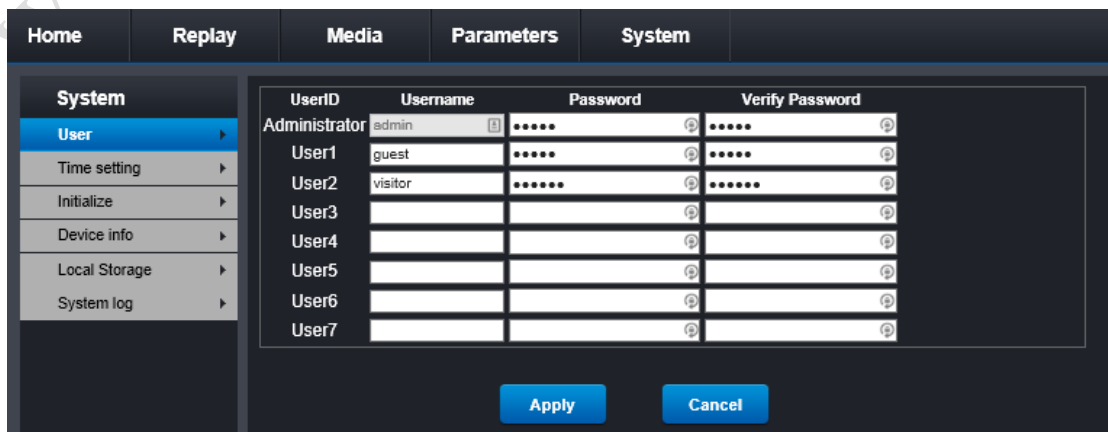


2.5 System Menu

The system menu is designed to control system functions such as user permissions, time, backup and restore functions, local storage and logs.

2.5.1 User Settings

The user settings allow you to define other users the ability to view the camera without having the ability to change the settings. The admin username is the only one that cannot be changed but you must enter the new password and then verify the password. NOTE: This username and password are for local access to the camera and not the same as what your mobile Android or iOS device use to access the camera.



2.5.2 Time Setting

This is used to set the time of the camera. NOTE: Once set, you shouldn't have to check the clock on this screen. Check it from the On Screen Display (OSD) on the camera Adjust only when needed.

The screenshot shows the 'System' settings page with the 'Time setting' option selected in the left sidebar. The main area is titled 'Adjust:' and contains the following fields and controls:

- Date & Time: 2015-03-15 17:24:40
- Mode: Sync With NTP (dropdown menu)
- Enable:
- Server Name: time.nist.gov
- Interval: 2 hour (dropdown menu)
- Time Zone: (GMT-07:00) Mountain Time (US & Canada) (dropdown menu)
- DST: 30min 60min
- Auto Update Time:
- Orwif Set TZ:

At the bottom of the form are two buttons: 'Apply' and 'Cancel'.

2.5.3 Initialize Settings

Initialize settings are for:

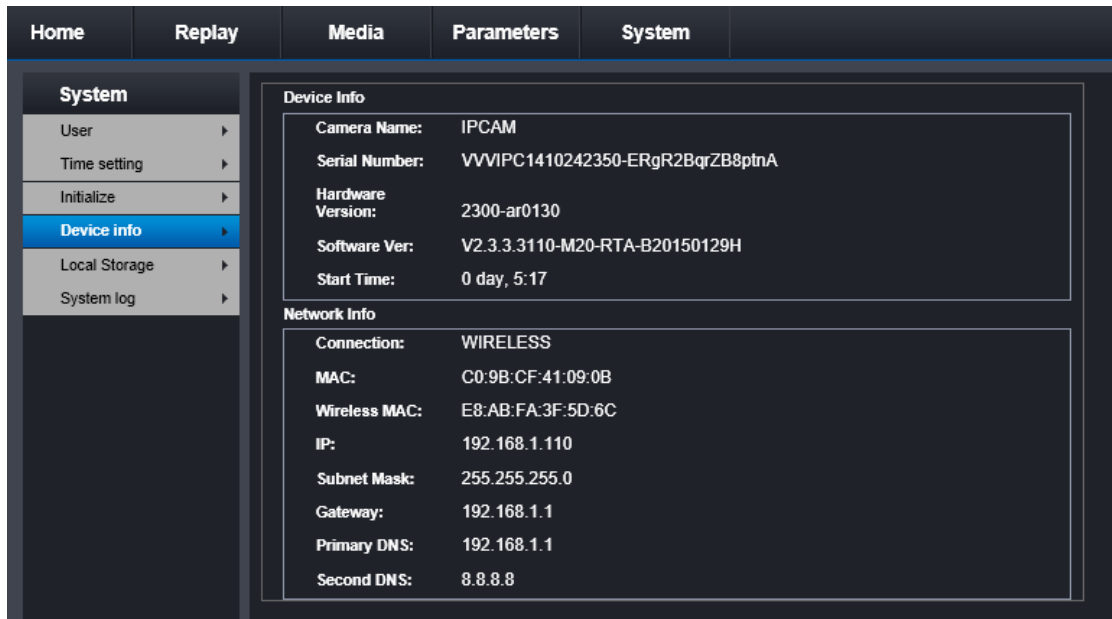
1. Rebooting the system without having to unplug the camera.
2. Factory default sets the camera to all default settings and clears out passwords, etc.
3. Backup the cameras configuration. Store this file in a safe place in case you ever need to reset the camera and then restore it.
4. Restore is to load the file previously saved during a backup action
5. Upgrade is for updating the cameras software when required.

The screenshot shows the 'System' settings page with the 'Initialize' option selected in the left sidebar. The main area is titled 'Initialize' and contains the following fields and controls:

- Reboot:
- Factory Default:
- Backup Data:
- Restore:
- Upgrade:

2.5.4 Device Info

Shows the current configuration of the camera. See example below.



2.5.5 Local Storage

Displays the camera's SD card configurations. Below is an example of a SD card's recordings and the list of available file on it. When an SD card can not be found, the format button will read mount and there will be no browse button. To select a file, double click on the date and then select the file under that date to view/download.

