

ASTAK

MOLE

H.264 WIRELESS NETWORK CAMERA



Advanced User Guide

NETWORKING AND SURVEILLANCE PRODUCTS

Setup and Advanced User Guide

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Getting familiar with your new ASTAK product

This section will familiarize you with your new ASTAK product, to ensure easy setup and usage of your wireless network camera.

Thank you for purchasing this ASTAK product. This manual will explain how to use your new camera and will provide installation and operation instructions. Please read this manual carefully before operating your product and please save this manual for future reference.

The IP-700 Network Camera is a web-based camera, which does not need to be connected to a computer to operate. It is an independent monitoring system with a built-in CPU and webserver, which enables it to deliver high-quality images from any location where you have either wired or wireless network connectivity. You can monitor and remotely control the IP-700 Network Camera from any internet connected browser, even the one on your iPhone.



GENERAL OVERVIEW

Packing list

In addition to this user guide and the Quick Setup guide, your package should include the following six components. Before beginning setup, please check that all parts are included. If any parts are missing, please contact your reseller or dealer.



Camera



Mounting bracket



AC adapter



Ethernet cable



Software CD



Wi-Fi Antenna

- * Actual components may be slightly different from what is pictured above.
- * The packaging is subject to change without notice.

System Overview



Usage Suggestions

- At home: baby monitoring, family security;
- At companies or offices: remote monitoring, anti-theft;
- In public places: hotels, shops, railway stations, airports, etc.

GENERAL OVERVIEW

Product Certifications

This product complies with the radio frequency safety standards and recommendations set by the FCC. This product is FCC & CE certified.

Warning

1. Do not use this product to invade others' privacy or monitor others if they have not agreed to be monitored.
2. Do not place this product near any medical equipment. The radio waves used by this camera are likely to interfere with the performance of medical equipment.
3. Do not use this product to do anything illegal. Illegal usage of this product voids the warranty. Astak, Inc and Team Research, Inc will not assume any responsibility for the illegal use of this camera.

Care and Maintenance

1. Keep this product in a ventilated place.
2. Do not strike or hit this product.
3. Do not put this product in very dry or dusty areas.
4. Do not put this product near magnetic objects.
5. Do not put this product in damp places nor places with large fluctuations in temperature.
6. Keep this product away from heat sources, such as electric heaters.
7. Do not use this product next to strong corrosive chemicals.
8. Do not let this product come into contact with liquids or rain.
9. Do not use this product near metals or else the wireless signal will be affected.
10. Please follow your local government's environmental protection policies.
11. Please disconnect the power when not using this product for a long time.
12. Do not attempt to dismantle or repair this product because that will void the warranty.
13. Keep packaging materials and camera away from babies and young children.
14. Do not plug the AC adapter into a power outlet if it is wet, or if your hand is wet.
15. After usage, the AC adapter will heat up, so do not put it on heat-sensitive surfaces.

Setting up your ASTAK network camera

This section will guide you through the initial setup of your Network Camera.

Once you've unpacked your camera and verified that all items on the packing list were included in your package, take the following steps.

1. Connect the wireless antenna (WiFi version only)
2. Plug the Ethernet (network) cable into the camera and the other end into your router.
3. Plug the AC power adapter into your camera, then into an 110V wall outlet.



AUTOMATIC CONFIGURATION

Register your camera

Once you've connected your camera to your Internet connected network and to AC power, you're ready to register and auto-configure your camera. Your ASTAK camera features Yoics, the easiest way to configure your network device.

Go to your browser and visit <http://astak.yoics.com>

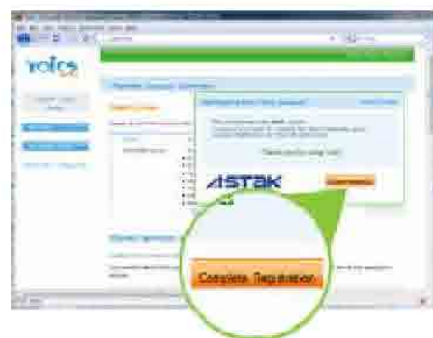
If you already have a Yoics account, simply enter your user name and password to login. Otherwise select *Sign Up* to create a *free* account.



Register and configure your camera

Once you've logged in, you'll be directed to the Yoics web interface. Yoics will automatically detect your new ASTAK camera and you should see a pop-up window asking if you want to register your new product. Just click *Complete Registration*.

Note: If the auto-detection pop-up doesn't come up, please log out and try again in a couple of minutes. Depending on your network connection, it may take up to 5 minutes for your camera to be detected.



AUTOMATIC CONFIGURATION

Once you clicked Complete Registration you will be shown the Register New Device Window. Simply give your camera a name of your choice.

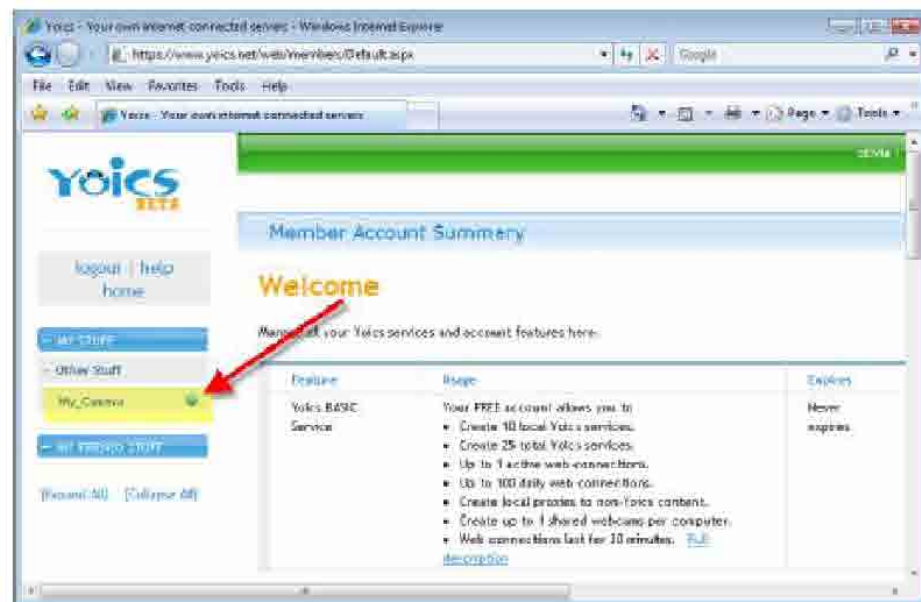
That's it. Your camera is now registered and configured. Simply login to yoics.com from any browser to view your camera, see Chapter 3 for more information.



Configuring for Wireless Networks

If you have purchased the WiFi version of the ASTAK camera, the following instructions detail how to configure your settings to configure your camera for your network.

Once you've logged in to the Yoics web access screen, simply click on your camera's name.



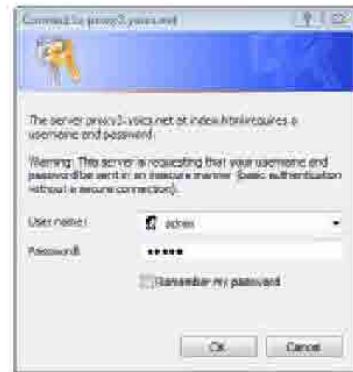
AUTOMATIC CONFIGURATION

Logging in to your camera

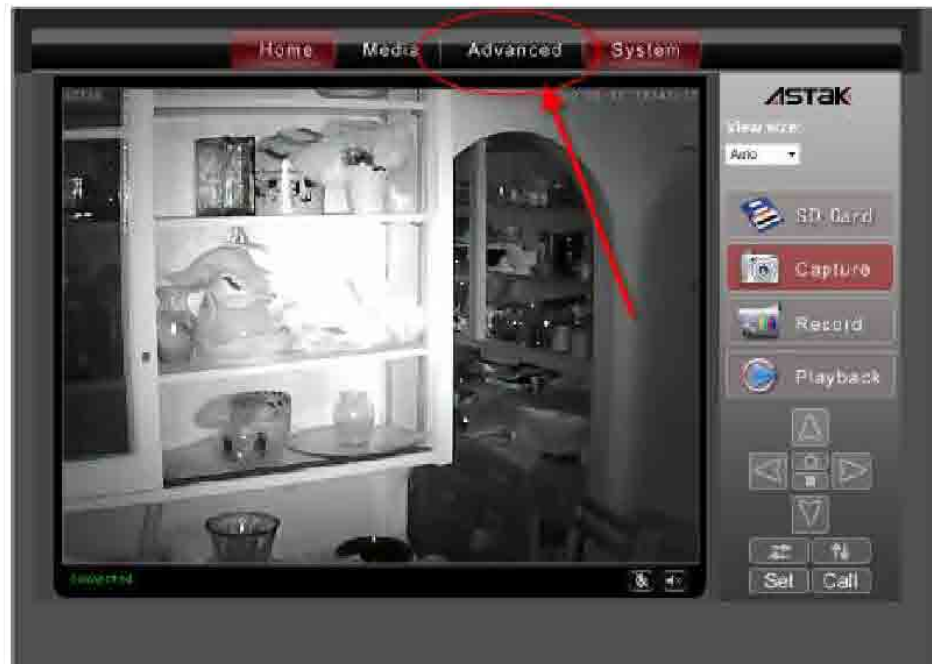
Clicking on the name will bring up your camera. Since this is the first time that you're accessing your camera, you will get a login screen. The default values are:

User name: admin

Password: admin

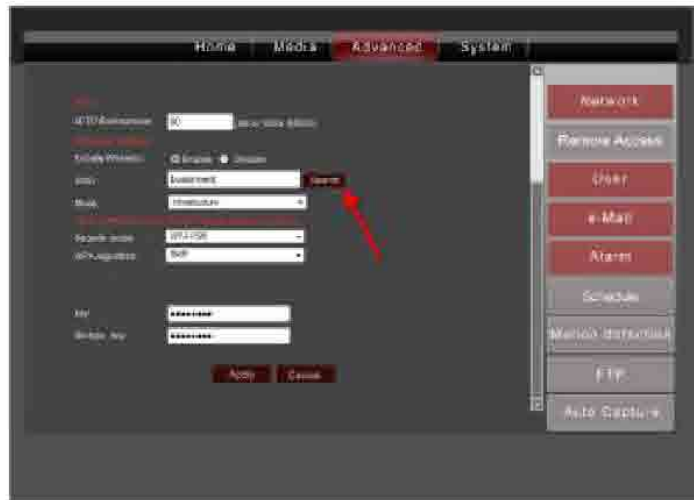


Once your camera interface comes up, select the *Advanced* tab.



AUTOMATIC CONFIGURATION

Scroll down to *Wireless Settings* and click on *Search*



Selecting *Search* will detect all of the wireless networks that it finds in range. Simply select your preferred network.

Channel	RSSI	SSID	BSSID	Encrypt	Auth	Network Type	Action
1	-80	othersphere-wps	00:00:00:00:00:00	AES	WPA-S	Infra	Join
1	-82	othersphere-wps2	00:00:00:00:00:01	AES	WPA2	Infra	Join
6	-82	2WIRE279	00:18:31:18:14:01	WEP	OPEN	Infra	Join
6	-80	PDREVERSREEN	00:14:6c:a0:75:16	WEP	OPEN	Infra	Join
9	-84	wpa2psk	00:22:31:0e:82:a5	TKIP	WPA-PSK	Infra	Join
10	-75	SPYKEE0670019199	02:02:20:5a:91:09	NONE	OPEN	Adhoc	Join
11	-82	hik	00:01:65:18:5a:7a	AES	WPA2-PSK	Infra	Join
6	-80	intpart	00:11:50:14:7d:a0	TKIP	WPA-PSK	Infra	Join
6	-84	base ment	00:1a:7b:d6:a3:b7	TKIP	WPA-PSK	Infra	Join

AUTOMATIC CONFIGURATION

Selecting the network will automatically populate the necessary settings for your configuration. Simply enter your pass-key (the password for your wireless network) and select *Apply*.

Note: It is recommended that you verify your wireless connection settings are correct. You can do this by selecting the *Check* button.



Once you've completed the above steps, simply unplug the Ethernet (network) cable and reboot (unplug and re-plug the power connector to) your camera, then your wireless network will connect.

Once the network has connected, the LED on the front of the camera will turn *blue* to let you know that it has connected successfully.



_____ Network Indicator LED

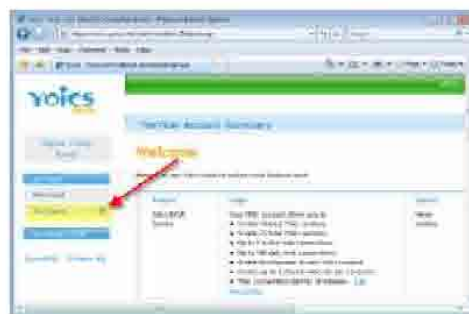
To revert to Ethernet mode, unplug the power from your camera, plug in an Ethernet cable, and plug the power to the camera back in.

Chapter
3

Accessing your camera

This section will show you how you can access your camera.

Once you have configured your camera there are many different configuration options available to you. To access your camera, simply login to yoics.com, and click on your camera to bring your camera up in your browser.



When you select your camera, you will be asked for a user name and password. The default values are: username: admin, password: admin



ACCESSING YOUR CAMERA

That's it; once you login you'll be able to see your camera.



Internet Explorer

Install ActiveX on your IE browser to observe the video streaming from your camera. Please follow these instructions to reset your browser's security settings.

Open IE browser → Tools → Internet options
→ Security → click "Default Level"



If you are using Microsoft's Internet Explorer browser, the first time that you view your camera you will be prompted to install some additional software. This software allows a greater viewing experience by allowing stream feed, simply select *install* to add this to your browser.

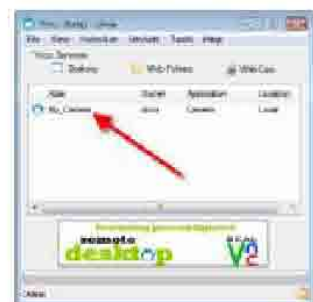


Note: You will need to repeat this process for each browser/computer that you use to access this camera.

Accessing through the Yoics desktop

An alternative to using the Yoics web-site to access your camera is to use the Yoics desktop software. The software is available for free download at <http://yoics.com>. Once installed, simply login using your same credentials as for web-access and double click on your camera's name.

Yoics desktop is more reliable and easy to use, with less video latency. We encourage you to use the Yoics



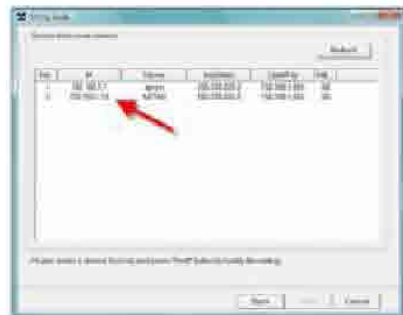
ACCESSING YOUR CAMERA

desktop to get better quality and make Yoics server work easy.

Access by local IP

If you are an advanced network user and would like to access your camera by your local IP (Internet Protocol) address, you can do so using the following steps.

First insert the CD which came with your camera and run the program called CamSearcher. This program will discover your camera on your network and let you know its IP address.



If there is no DHCP server connected to your camera on your network, the default IP address is 192.168.1.88.

Simply type this IP address into your browser to access the camera directly.



Note: Accessing by local IP address will ONLY work when you are on the same network (e.g. same location) as the camera. For information on how to access your camera remotely by IP address, see Remote Access in Chapter 4.

Using your camera

This section will guide you through the various menus of your camera.

In addition to showing you the view, there are many configuration options with your camera. This section will walk you through the various menus and sub-menus available to you.

Home



The Home tab is the main view and shows you your camera and provides you access to a variety of controls for your camera.

MANUAL CONFIGURATION

View size

View size allows you to select the default screen resolution that you see you camera. Auto is the default and is recommended. Lowering image size may be recommended in slow network situations, where performance may be an issue at higher resolutions.



SD Card

Selecting the SD card will take you to the camera's built-in DVR, where all of the videos and images are stored. This feature is only available if you have installed an SD memory card into the camera.



Simply select on any folder, and then select any link to view any photos or videos that are stored in your camera.

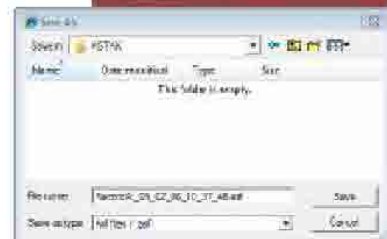
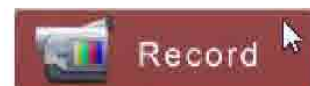
Capture

Select capture to take a picture of the current view. A popup of the image will be displayed and give you the option to save the image on your computer.




Record

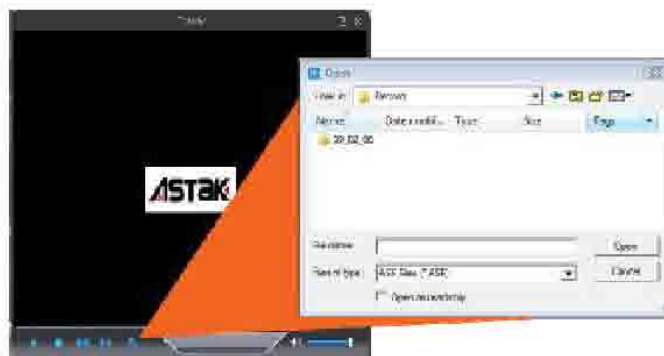
The record function allows you to record a video stream to the computer that you are viewing the camera from. Upon selecting the button, you will be prompted to give the video file a name, then select *Save* to start recording. Simply hit *Record* again to stop the recording.



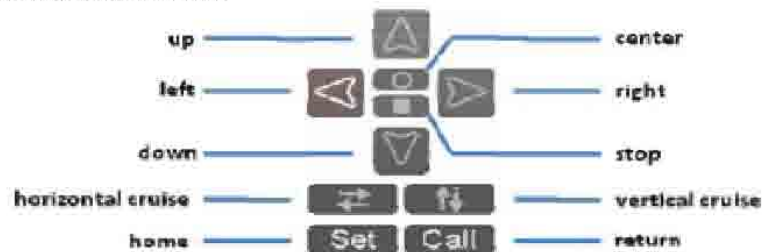
MANUAL CONFIGURATION

Playback

Playback allows you to view the recorded footage on your computer. Simply select the  button to bring up a file listing of your recorded files. Note this feature will play the footage stored on the computer that you are currently watching from.



Camera controls



up | down | right | left: Controls the pan and tilt of the camera

center: Moves the camera to *center* from wherever it is.

stop: Stops the camera from moving (used in conjunction with cruise)

horizontal cruise: Makes the camera pan from left to right

vertical cruise: Makes the camera automatically tilt up and down.

set: defines a *home* position from the camera.

call: returns the camera to the *set* position.

MANUAL CONFIGURATION

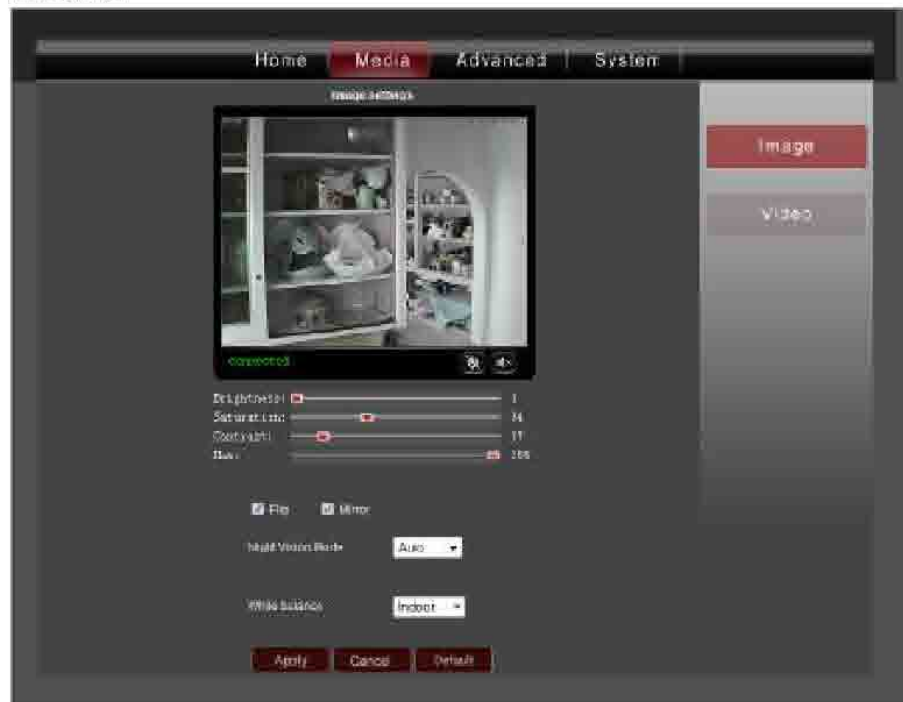
Audio controls

Your ASTAK is capable of two-way audio functionality. Connecting a speaker to your camera, allows you to *speak* from wherever you are, provided you have a microphone on the computer that you are watching from. To turn this feature on, simply select the microphone (left above).



The camera features both an on-board microphone as well as a jack for an external microphone. When you view your camera, you are able to *listen* to these microphones. Click on the speaker icon (right above) to turn the audio on.

Media



Selecting the Media tab provides access to the image and video settings.

MANUAL CONFIGURATION

Image settings

The screenshot shows a dark-themed configuration window with the following elements:

- Brightness:** A slider set to 0.
- Saturation:** A slider set to 94.
- Contrast:** A slider set to 37.
- Hue:** A slider set to 255.
- Flip:** A checked checkbox.
- Mirror:** A checked checkbox.
- Night Vision Mode:** A dropdown menu set to "Auto".
- White balance:** A dropdown menu set to "Indoor".
- Buttons:** "Apply", "Cancel", and "Default" buttons at the bottom.

Brightness | Saturation | Contrast | Hue: Adjust any of these settings to your liking. Once you've found a setting that you like, select *Apply* to have the camera remember those values.

Flip: Your camera is designed to allow ceiling mounting. Deselect this option and select *Apply* to have the image flipped horizontally.

Mirror: The camera is intended to simulate as if you were there and provides that view of the scene. If you want to see the *Mirror* image, simply deselect this box and select *Apply*.

Night Vision Mode: This controls the Infrared lights on your camera. You can choose to set this function on *Auto*, or *Manual*. If you choose to select the *Manual* mode, and select *On*, then the infrared lights will be continuously on until you turn it off. Make sure to click the "Apply" button after you make a change.

White Balance: This function helps to display colors correctly under different lighting sources. For example, you can choose the *Indoor* or *Outdoor* selection when the camera is placed indoors or outdoors. Or you can also choose the *Auto* option. Make sure to click on "Apply" after you make your changes.

Default: Click on the *Default* button to return your camera to its original settings.

MANUAL CONFIGURATION

Video settings

The screenshot shows a 'Video Settings' dialog box with the following configuration:

- Resolution:** 640x480
- Bitrate:** 1536 kbps
- Maximum frame rate:** 30 fps
- Video Quality Control:** Frame rate first (selected)
- Mobile resolution:** 320x240
- Power line frequency:** 60 Hz
- Time Stamp:** On (selected)
- Camera Name:** On (selected)
- Name:** ASTAK

Buttons: Apply, Cancel

Resolution: There are three different resolution options you can choose from: 640x480, 320x240, or 160x120.

Bit Rate: This specifies the number of kilobytes per second of the video stream. Increased bit-rate equates to improved quality and increased size.

Note: to get good video and audio quality, the bit-rate should be set lower than the speed of your internet connection's upload speed.

Maximum Frame Rate: This controls how many frames per second the video is displayed with. Choosing a higher number will result in a smoother video stream.

Video Quality Control: For a real-time, fast response, choose the "Frame rate first" option. Choosing the "Quality first" option uses a buffer so that the video stream is delayed a few seconds, but with improved overall smoothness and quality of the video.

Power Line Frequency: Different countries use different standard electric currents. If you use your camera in the USA, please choose the 60Hz option. If you intend to use your camera in certain other countries, such as Europe and China, please choose the 50Hz option.

Time Stamp and Camera Name (Parenthesis options): Selecting or turning on the Time Stamp option will place a small time indicator at the top right corner of your video. This will help you keep track of when your videos were taken.

Name: Selecting this option will place the name of your camera (which you can select) at the top left corner of your video.

Please click Apply to save your changes.

MANUAL CONFIGURATION

Advanced

Click on the Advanced tab to access advanced user settings.



Network

Warning: Only advanced users should configure network settings.

IP Configuration Type: You can choose from a Dynamic or Fixed IP address. If you choose a Dynamic IP address (default), your IP address will be assigned automatically by your router. If you choose Fixed IP address, you will need to enter all your information manually.

DNS Configuration: You can choose from an Automatic or Fixed DNS (Domain Name System). As implied by the name, automatic DNS is assigned during the connection stage, and Fixed DNS is a value that you enter manually.

HTTP Port Number: The default is 80. Changing this value will restart the camera.

Enable Wireless: If you want to enable wireless mode, click on Enable, and then click on the Search button next to the SSID row. A popup window will appear that lists available wireless networks in your location. Choose a wireless network and click OK. For more information, see *Configuring for wireless networks in Chapter 2*.

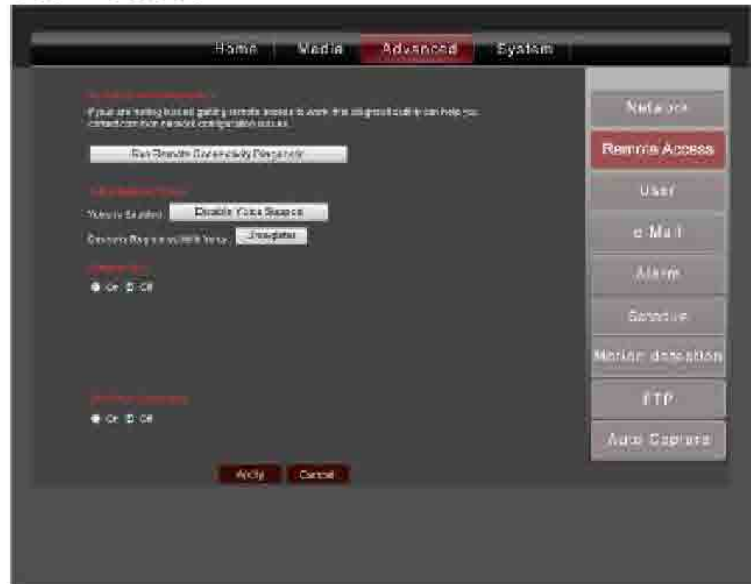
Mode: Select either Infrastructure or Point to Point. Select the Infrastructure mode if you are using a wireless router. Select Point to Point mode if you are connecting directly to another wireless PC.

Security mode: Choose a security mode that matches your router's security mode. (You can refer to your router manual for this information.)

Please click Apply to save your changes.

MANUAL CONFIGURATION

Remote Access



Yoics Is Enabled: If you registered with Yoics already, you have the option of disabling Yoics support and unregistering with Yoics. If you unregister, then you will not be able to access your camera through the Yoics website. *See Chapter 1: Setting up your ASTAK camera for more information.*

Dynamic DNS: Turn dynamic DNS on or off. Please see next page for setup info.

Universal PnP: Turns UPnP port forwarding on or off.

Please click Apply to save your changes.

MANUAL CONFIGURATION

DDNS Settings

Most internet service providers do not provide a static (dedicated) IP address. Accordingly it can be difficult to remote access your camera. Dynamic DNS (DDNS) is a free service that keeps track of your IP address, through these changes.

These instructions detail how to configure DDNS for your camera.

Note: DDNS is NOT required if you are using Yoics to remote access your camera.

How to use www.dyndns.com for DDNS setting:

- This service is free. Please allow 24-48 hours for the server to activate your account.
- Please go to <http://www.dyndns.com/> and click on [create account].
- Enter information required at Create Your DynDNS Account page and click [create account]
- You should receive a confirmation email within a few minutes. Please make sure that your spam filter allows messages from support@dyndns.com to be received.
- Login to your account by using the username and password you created.
- Click on [my service] on the upper right corner.
- Click [add host name] under Host Services.
- Create your own host name such as xxx.dyndns.org
- Select Service type: Host with IP address.
- Click [Use auto-detected IP address] and click [create host]
- Review your host service information.

- Go to your DVR or IP cam's webpage and select DDNS setting.
- Enter hostname, username, and password you created for DynDNS service.
- Click [save] to enable this service for your DVR or IP cam.
- Note that after you create an account, DynDNS might need 24-48 hours to process and activate your service.
- To access your DVR or IP cam, instead of using your IP address, please go to your host service: <http://xxx.dyndns.org:100> (replace xxx with your host name, and replace 100 with your port number)
- If you have questions about this service please contact DynDNS at

Dynamic Network Services, Inc.
1230 Elm Street, Fifth Floor
Manchester, NH 03101
USA
support@dyndns.com
Phone: +1-603-668-4998
Fax: +1-603-668-6474

MANUAL CONFIGURATION

Your ASTAK camera can notify you via email if it detects events. The information for your email settings should be entered here.

SMTP Server Name: Type in the name of your email SMTP server, and your server port number in order to enable the delivery of emails. Please check with your email provider for the port number and if any security (e.g. SSL) settings are required.

Authentication: You can turn authentication on or off. If your email provider requires logging in before sending email, then turn authentication on, then select ON and enter the appropriate user name and password.

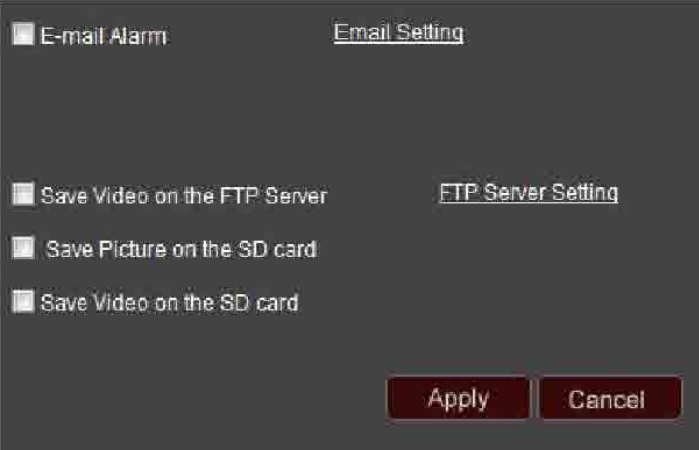
Send To: You can choose up to three separate email addresses to send images and videos to.

Show From As: You can set which email address is displayed as the sender.

Subject and Message: You can enter an optional subject line or message for your email.

Alarm

In this section, you can choose which actions to take if a movement triggers the camera alarm. Note: You can choose multiple actions, or none.



The screenshot shows a dark-themed configuration window with the following elements:

- Top left: E-mail Alarm
- Top right: [Email Setting](#)
- Second row: Save Video on the FTP Server
- Second row right: [FTP Server Setting](#)
- Third row: Save Picture on the SD card
- Fourth row: Save Video on the SD card
- Bottom right: Two buttons labeled "Apply" and "Cancel"

Email Alarm: Click this box if you want to be notified via email when movement has been detected. You must also click the Email Setting link to setup your email account. If you enable this option, a Send with Picture checkbox will also appear. Click this box if you want a picture to also be sent to you.

MANUAL CONFIGURATION

Save Video on the FTP Server: Click this box if you want video to be saved on your FTP server. You must also click on the FTP Server Setting link to setup FTP for this action to occur.

Save picture on the SD card: Click this box if you want a picture to be saved on the SD card when a movement is detected. Note: You must first insert a SD card into the camera for this to occur.

Save video on the SD card: Click this box if you want a video to be saved on the SD card when a movement is detected. Note: You must first insert a SD card into the camera for this to occur.

Please click Apply to save your changes.

Schedule

This section allows you to specify what times of the day or night you want your camera's alarm function to be turned on.

The screenshot shows a configuration window for the camera's alarm schedule. At the top, there are three radio buttons: "Use the week mode" (selected), "Use the work mode", and "All Times". Below these are four labels: "week", "week+week", "work+work", and "week+work". The main area contains a table with days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) and a grid of 12 dropdown menus for each day, representing time ranges. At the bottom, there are three buttons: "Apply", "Cancel", and "Clean".

Use the week mode: This mode gives you the greatest amount of control. You can specify up to three different sections of time for each day of the week when you want to activate the alarm function.

Use the work mode: In this mode, you can specify up to three different sections of time from Monday through Friday when you want to activate the alarm function. You can then choose up to three sections of time on the weekends when you want to activate the alarm function.

MANUAL CONFIGURATION

	start	end	start	end	start	end	start	end
workday	00	00	00	00	00	00	00	00
weekend	00	00	00	00	00	00	00	00

All times: You can choose this mode if you want the alarm function to be activate at all times.

Please click Apply to save your changes.

Motion Detection

In this section, you can setup up to four different motion-sensitive *windows*.



For example, in the picture above, 2 *windows* are activated.

First, to activate a window, click on the checkbox next to “Window 1”. A window will appear. Then you can specify the size of this window by hovering over the lower right corner of the window until a double-headed arrow appears. Click and drag that double-headed arrow to form the window size you want. You can also adjust the placement of your window by clicking anywhere inside the window and dragging it to where you want it to be. This window has a small number “1” in the upper left hand corner to indicate that it is “Window1”.

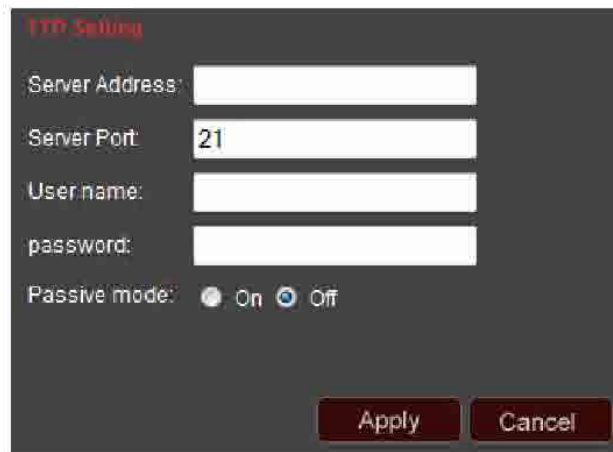
Next, you can choose the sensitivity of motion detection by using the sliding bar titled “Sensitivity”. As you slide the bar to the left, the number goes down to 0; if you slide the bar to the right, the highest number is 75. A lower number means that the window will not be very motion-sensitive; a higher number means that the window will be extremely motion-sensitive.

Please click Apply to save your changes.

MANUAL CONFIGURATION

FTP

In this section, you can configure your FTP settings. If you have access to an FTP server, you can setup your FTP here so that any recorded videos will be sent to your FTP server.



The screenshot shows a dark-themed window titled "FTP Setting". It contains the following fields and controls:

- Server Address: [Empty text input field]
- Server Port: [Text input field containing "21"]
- User name: [Empty text input field]
- password: [Empty text input field]
- Passive mode: Two radio buttons, "On" (unselected) and "Off" (selected).
- At the bottom right, there are two buttons: "Apply" and "Cancel".

Please click Apply to save your changes.

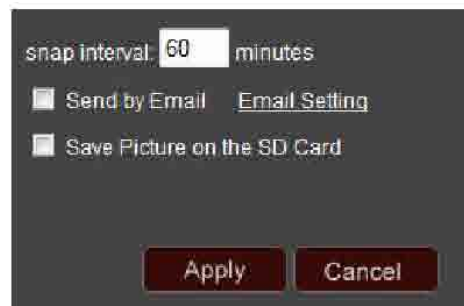
Auto Capture

Your ASTAK camera can be configured to automatically take a picture at a designated time interval.

Snap interval: Set any duration from 1-1440 here. For example, in the picture above, the camera is setup to take a picture every 60 minutes.

Send by email: You can click this checkbox if you want the picture to be sent to your email as soon as the picture is taken.

Save picture on SD card: you can click this checkbox if you want the picture to be saved to the on-board SD card so that you can browse it later. (Requires that an SD card has been inserted in the camera)



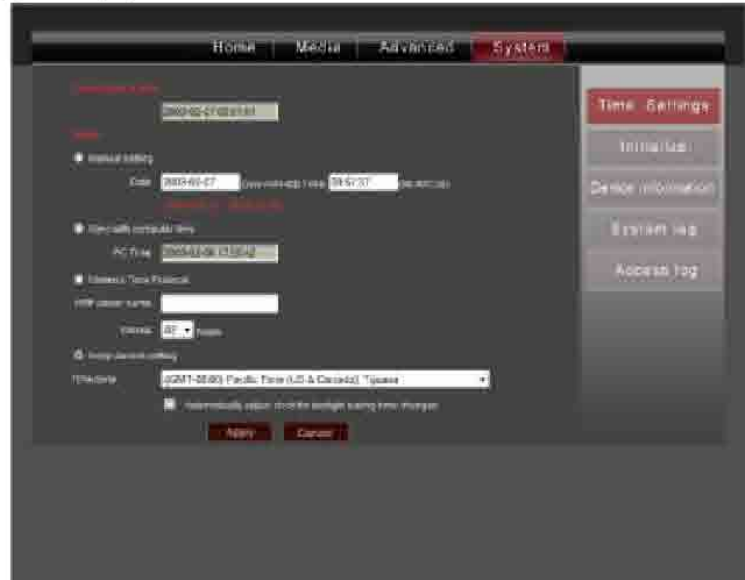
The screenshot shows a dark-themed window for "Auto Capture" settings. It contains the following elements:

- snap interval: [Text input field containing "60"] minutes
- Send by Email: [Unchecked checkbox] [Email Setting](#)
- Save Picture on the SD Card: [Unchecked checkbox]
- At the bottom right, there are two buttons: "Apply" and "Cancel".

Please click Apply to save your changes.

MANUAL CONFIGURATION

System Tab



Time Settings



Current date & time: this box displays your camera's current date and time.

Adjust: to setup your camera's date and time, you can choose between four different options:

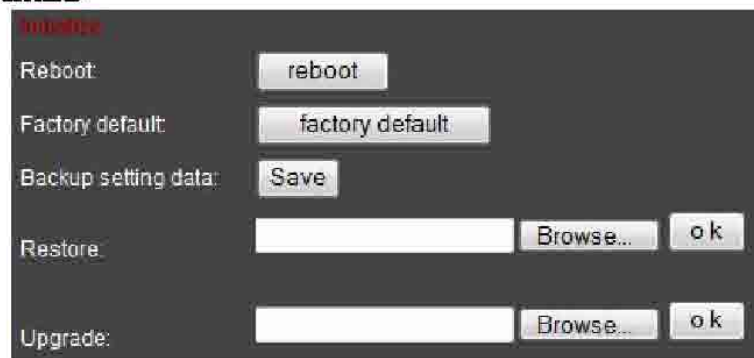
MANUAL CONFIGURATION

- Manual setting: Manually type in the date and time for your camera.
- Sync with computer time: Match your camera's date and time to your computer's date and time.
- Network time protocol: You must fill in a server name and time interval.
- Keep current setting: Choose a time zone for your camera.

Note: You can also choose to automatically adjust the date and time for daylight savings time changes by clicking the checkbox at the bottom of the page.

Please click Apply to save your changes.

Initialize



The screenshot shows a dark-themed interface with the following elements:

- Initialize** (red text)
- Reboot:** A button labeled "reboot".
- Factory default:** A button labeled "factory default".
- Backup setting data:** A button labeled "Save".
- Restore:** A text input field, a "Browse..." button, and an "ok" button.
- Upgrade:** A text input field, a "Browse..." button, and an "ok" button.

Reboot: click this button to restart your camera.

Factory default: click this button to restore your camera to its original settings.

Backup setting data: click the Save button if you want to save your current camera settings as a file.

Restore: if you want to restore your camera to a previous setting (which you have saved), click on the Browse button to find the saved file. Click OK to apply.

Upgrade: In the future, if Astak offers updated firmware for your camera, you can download it from the website and save it to your computer. Then you can apply it to your camera by using this Upgrade feature.

MANUAL CONFIGURATION

Device Information

This section displays technical details about your camera.

Device information	
Camera name:	ASTAK
Serial Number:	XXXXXX123456778
Camera Type:	ZNY10.22
Network connection:	Wireless LAN
Software Version:	V1.3.3.2-X00-build:2009011
Mac address:	00:05:7b:60:03:c7
IP address:	192.168.10.118
Subnet mask:	255.255.255.0
Gateway:	192.168.10.1
Primary DNS:	192.168.10.1
Secondary DNS:	
Start Time:	2009-2-6 14:15:40 week:5
SD status:	no devices
	Browser SD Card...

SD status: you can click on the [Browser SD Card](#) link to access the contents of your SD card. You will need to enter your username and password, as shown below.

Format SD card: clicking this link will erase any information stored on your SD card.

Note:

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC NOTE:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

IC NOTE:

Operation is subject to the following two conditions:(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.