

Cube **HD**

# USER MANUAL

VERSION 1.4

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## 1.1 Package Contents

Verify the package contents against the list below.

- PLC-223W/PLC-233W Network Camera
- Camera Stand
- Manual and Software on CD-ROM
- CAT5 Ethernet Cable
- Power Adapter
- Quick Install Guide



Camera  
& Stand



AC/DC  
Power adaptor



Setup CD  
& Guide



Network  
Cable

## 1.2 System Requirements

### Minimum PC System Requirements

Operating system-Windows 2000/XP/Vista  
/Windows 7/Mac/Linux

Processor-Intel Pentium III, 1GHz

Memory-256Mb RAM

### Minimum Mac System Requirements

Operating system-Mac OSX 10.4 (Tiger)

Processor-800MHz-Power PC G4 or Intel

Memory-128Mb RAM (256Mb recommended)

### Viewing System Requirements

Web Browser Setup/Viewing- IE Version 5.5 or later, Firefox,  
Google Chrome, Safari & most other browsers

Real Player QuickTime and most other VLC players.

## 1.3 Introduction

### **Professional High Quality Video Camera**

With Megapixel optical lens, Surveillance CMOS Sensor, DSP processor, you can experience outstanding HD video at full resolution. Built-in IR LED lamps for Night vision that gives you ability to view clearly even in the dark environments. Enhanced by automatic IR cut-filter operation, it provides sharp and clear picture quality, day or night.

### **Fast and easy setup**

View your camera online Within minutes. No software installation or router setup needed. With the P2P Technology, PHYLINK Cube smart connect to internet without any complicated port mapping or DDNS settings. You just enter or scan the QR Code which printed on each camera. It's very simple and smoothly.

### **Connections for your smart life**

The PHYLINK Cube records video clips when there any motion events detected. It has a Built-in Micro card slot with remote playback from anywhere. You can also remotely view live video from Smart Phones, Mac, and PC. The Motion Sensor of PHYLINK Cube has Multi-zone and Adjustable sensitivity. If any motion detected, PHYLINK Cube will Alerts through email or push notifications(iOS and Android) to keep you notified. Utilizing advanced H.264 technology, the PHYLINK Cube uses minimal bandwidth and storage requirements. With smooth real-time video and audio streaming.

## Approval Information

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

### FCC

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 the 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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

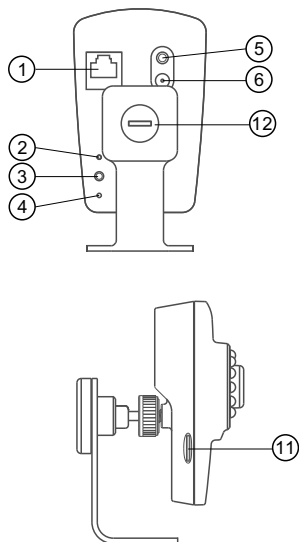
- (1) This device may not cause harmful interference, and
  - (2) this device must accept any interference received, including interference that may cause undesired operation
- Changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

### CE

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.



## 1.4 Hardware Overview



1. Ethernet RJ45 connector
2. WPS status indicator LED
3. WPS Button
4. Reset pin hole
5. Audio Out
6. Power Connector
7. Light Sensor
8. Infrared LED
9. Microphone
10. Power/Status indicator LED
11. Micro SD Card slot
12. Screw of Stand

### ■ Reset pin hole

Short press this button to reset the camera back to Factory Settings.

### ■ Power/Status indicator LED

After the camera is powered on, system is going to start, the indicator LED shows yellow light and quickly off which means the system is being started. When the indicator LED shows yellow again, it means the system has started successfully.

Red light is for wired connection, yellow light for wireless connection. The indicator LED flashes during data transfer.

### ■ WPS Button

Press this button to setup a wireless connection automatically.

### ■ Light sensor

Monitors lighting conditions and switches between color and infrared accordingly.

### ■ Power Connector

Connects to the included DC 12V power adapter.

### ■ Micro SD Card slot

Local storage for storing recorded image and video.

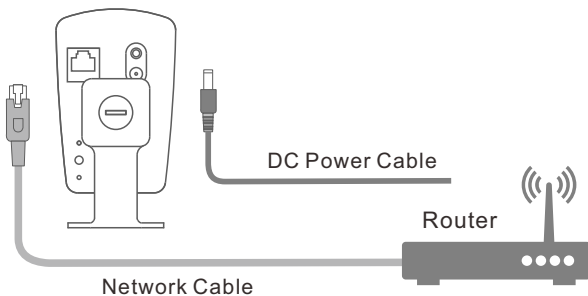


## 2.1 Hardware Installation

### ■ Connect Network and Power

Connect the camera to your router or switch using the network cable.

Using the included power adaptor, plug one end into the Power Connector and plug the other end into a power outlet.



*Note: The DHCP server and UPnP must be enabled on your router (which is default setting on most router) to assign a local IP address to the network camera. If needed, please refer to your router's user manual on how to enable DHCP server and UPnP.*

### IMPORTANT!

Please note that for initial setup, you need to connect the camera directly to your router or switch with a network cable. You can NOT connect wirelessly to the camera without first setting it up via a network cable. After initial setup only the power cable is required for the Wi-Fi connection.

### ■ Mount the camera

The supplied stand provides flexible installation solutions. It makes the camera either wall-mounted or ceiling-mounted.

Adjust the angle of the stand to aim at the shooting area and then screw the **Screw of Stand** with a coin.

### IMPORTANT!

The PHYLINK Cube HD is not approved for outdoor use, the product may only be installed in indoor environments.

## 2.2 Restore Camera back to factory settings

If you ever forget your admin password or have any other reason to reset the camera to its factory settings, please use the following procedure:

- Make sure the camera is powered up.
- It is easier to use the software reset function. Login the web server of camera and browse to **Setting > Tools > Backup or Reset**.
- If hardware reset is needed, insert the tip of a paper clip in the **Reset pin hole** to press the reset switch. You'll feel the click when the switch engages.

A few seconds later the camera will restart and is now at factory settings. After reset the user name and password will both be "admin" again.

## 2.3 Wireless Installation with WPS function

You may create a Wi-Fi connect using the **Reset/WPS Button** on the **Camera Cable**.

### ■ Step 1

After the camera is powered on, press the **WPS button** on the back of the camera. The blue **WPS status LED** above the button will blink.

### ■ Step 2

Press the **WPS button** on your router within 60 seconds.

The camera will automatically create a wireless connection to your router.

While connecting, the **WPS status LED** will always on and your camera will reboot.

*Note: WPS also called QSS (Quick Secure Setup) on some brands of router. On some routers, you may need to login to the web interface and then click on an onscreen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.*

## 2.4 Wireless Installation Considerations

The wireless network camera lets you access your network using a wireless connection from anywhere within the operating range of your wireless network. However, the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Minimize the number of walls and ceilings between your adapter and other network devices (such as your Network Camera) - each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters).
2. Be aware of the direct line between network devices. Position your devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
3. Building Materials make a difference. A solid metal door or aluminum studs may weaken the wireless signal. Try to position your wireless routers and wireless network camera where the signal passes through drywall or open doorways.
4. Keep the wireless network camera at least 3-6 feet or 1-2 meters away from electrical devices or appliances that generate RF noise.
5. If you are using 2.4GHz cordless phones or other radio frequency sources (such as microwave ovens), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4GHz phone base is as far away from your wireless network camera as possible. The base transmits a signal even if the phone is not in use.

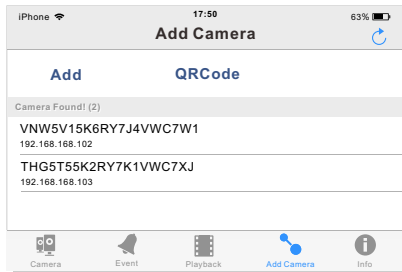
### **IMPORTANT!**

The 1080P wireless camera requires a 4 out of 5 bar or 5 out of 5 bar signal strength in the camera's system status page for a reliable wireless connection with real-time video streaming. With a typical consumer grade router you should expect the camera to work reliably 40 to 50 feet (12 to 15 meters) from the router, with one wall in between. If the signal strength is less than 3 out of 5 bar, you may need a Wi-Fi range extender.

## 2.5 Installation for iOS device

### 2.5.1 Camera installation on iOS device

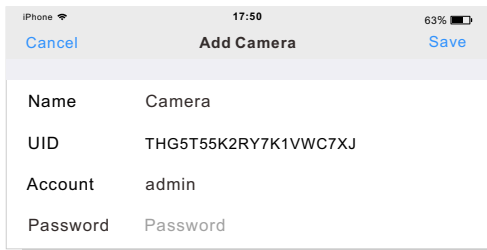
Search "PHYCAM" App from App Store, download and install it. Start the App and then the "Add Camera" screen will appear.



There are three ways to add a camera on an iOS device.

#### Option 1 Automatically search in Local Area Network

If your camera is in the same Local Area Network with your smartphone, the App can search the cameras automatically. If the camera UID shows up on list then press the UID for the camera you are setting up.



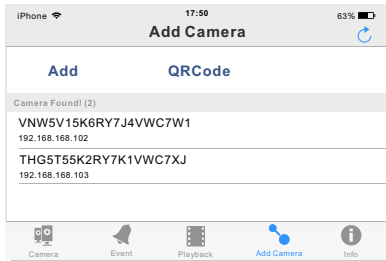
Enter the "Password". (The default password is "admin".)

Assign a "Name" to the camera to help identify this camera if more than one camera is in use. (The default name is "Camera".)

Press "Save" button and your camera will show up under "Camera List".

**Option 2** Scan the camera UID using smart phone

Press "QRCode" button to scan the camera UID from the sticker on the product.



Enter the "Password". (The default password is "admin".)

Assign a "Name" to the camera to help identify this camera if more than one camera is in use. (The default name is "Camera".)

Press "Save" button and your camera will show up under "Camera List".

**Option 3** Manually type UID

If your camera is not in the same Local Area Network with your smartphone, the App can NOT search cameras for Local Network.

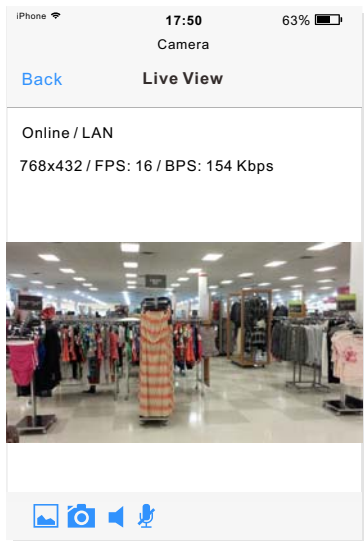
Press "Add" button and manually type "UID" according to the UID sticker on the product.





Enter the "Password". (The default password is "admin".)

Assign a "Name" to the camera to help identify this camera if more than one camera is in use. (The default name is "Camera".)

Press "Save" button and your camera will show up under "Camera List".

Press on the Camera name from “**Camera List**” for “Live View” with a wired connection.



- Press  to View saved pictures.
- Press  to take a snapshot.
- Press  to start listening or stop listening.
- Press  to start speaking or stop speaking.

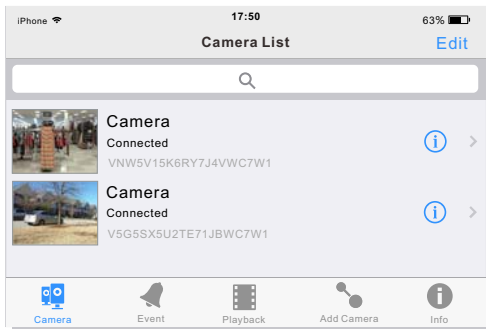
Press the “**Back**” button to go back to the “**Camera List**”.

## 2.5.2 Wireless Setup on iOS device

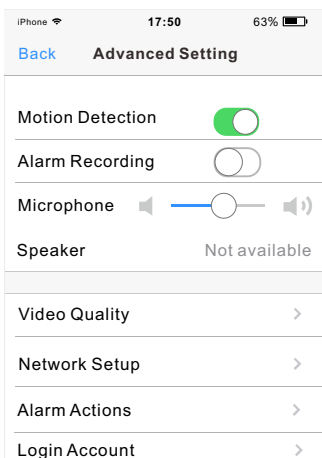
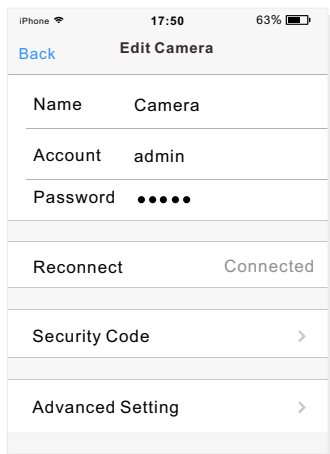
There are two ways to setup the wireless connection.

### Option 1 Quick setup with smart phone

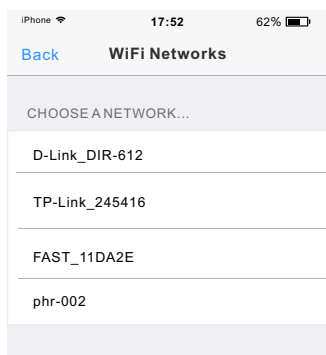
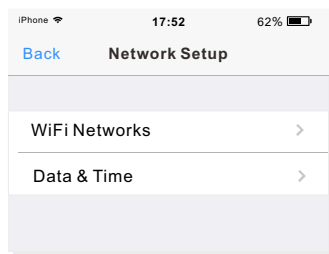
Press on  from the **Camera List** and go to the **Edit Camera**.



Go to **Advanced Setting** > **Network Setup**.







Press **WiFi Networks**, then the App will search for available wireless networks, select your network among this list.  
Type your Wi-Fi password and press the “Join” button to complete the Wi-Fi setup.



After a successful wireless setup, you can remove the network cable and the camera should work through the wireless network after a short delay.

**Option 2** Quick setup with WPS function

You may create a WiFi connect using the WPS Button on the back of the camera.

**■ Step 1**

After the camera is powered on, press the **WPS button** on the back of the camera. The blue **WPS status LED** above the WPS button will blink.

**■ Step 2**

Press the **WPS button** on your router within 60 seconds.

The camera will automatically create a wireless connection to your router.

While connecting, the **WPS status LED** will always on and your camera will reboot.

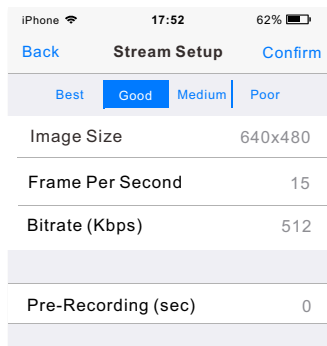
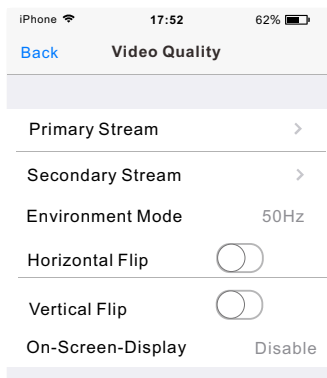
*Note: WPS also called QSS (Quick Secure Setup) on some brands of router. On some routers, you may need to login to the web interface and then click on an onscreen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.*

## 2.5.3 Advanced settings on iOS device

### ■ Video Quality

There are two pre-programmed stream profiles: primary stream and secondary stream. These streams profiles help for quick setup.

The settings for these can be adjusted. Press on ➤ for the settings of stream profiles.



There are four quality level of video can be set quickly.

You can also make further changes to the details of quality.

Please note that the higher the video quality, the more network bandwidth you will need to support it.

**[Environment Mode]** Two options: 50Hz & 60Hz. Set according to the mains frequency in the country of use.

For UK this would be 50Hz. For US this would be 60Hz.

**[Pre-Recording]** The Pre-Recording Time control how long the video is recorded before motion detection is detected by a camera.

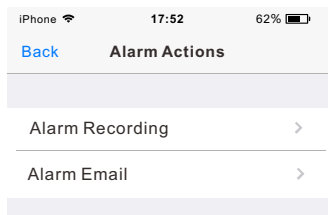
You can fill a value of seconds to adjust this times. (The Max value is 10 seconds)

**Video pre-recording** allows the camera to record up to 10 seconds of video leading up to a related trigger event. It will allows users to review the moments before the camera was triggered.

Moving objects triggered motion detection recording function, but the delay problems caused the loss of data images in the beginning of the event, in some situations, these are very important. Video pre-recording will help you catch everything.

## ■ Alarm Actions

The camera refers to motion detection as an “alarm”. If any alarm occurs, the camera can trigger a recording and send an email.



Press on ➤ to enter the Alarm Recording settings or Alarm Email settings.

## ■ Alarm Recording



In the Alarm Recording settings, you can turn on or off the Alarm Recording feature. You can select which stream profile to record.

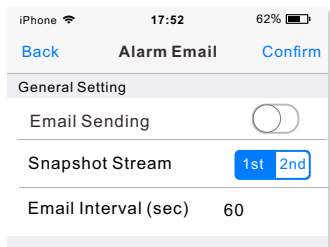
**[Post-recording]** The number of seconds that the camera should keep recording video after motion stops. If there is any motion within this time the camera will keep recording until there is no motion for the duration of this parameter. It can be from 5 seconds to 24 hours.

**[File Split]** This specifies the maximum duration of one file. If the recording goes on for longer than this parameter the camera will split the video into a number of files.

## ■ Alarm Email

For automatic emailing you will need both a mail server and one or more email receiving addresses.

If you don't have this information handy you may want to refer to your internet service provider's help pages or other email program account settings.



SMTP Email Server Setting	
Server	
Port	25
SSL Connection	<input type="checkbox"/>
Authentication	<input checked="" type="checkbox"/>
Account	
Password	
Sender	

In the Alarm Email settings, you can turn on or off the Alarm Email feature. You can select the stream profile to **snapshot** for mail.

**[Email Interval]** Input the interval between two E-mails.

If you do not want to send mail too frequently, you can increase the time interval to send the E-mail.

**[Server]** Input your E-mail's SMTP server name.

**[Port]** 25, as default.

**[SSL connection]** Select OFF. For Gmail, select ON. It depends on the mail system.

**[Authentication]** Select ON.

**[Account]** Input your E-mail user name.

**[Password]** Input your E-mail password.

**[Sender]** Input the sender mail address

**[Receiver mail address]** Input the receiver mail address.

Receiver Setting	
Receiver#1	
Receiver#2	
Receiver#3	
Subject	Warning from Network...
Message	

**[Receiver#]** Input the receiver mail address.

You can set up a total of three E-mail address.

**[Subject]** Input the subject of mail.

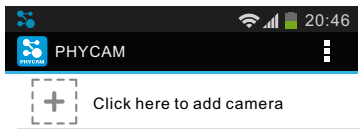
**[Message]** Fill with the content you want to send in the mail.


*Note: Gmail requires that you go to your account settings on Gmail.com and enable the POP feature (Post Office Protocol). If your Gmail account does not have POP enabled, the camera will not be able to send email.*

## 2.6 Installation for Android device

### 2.6.1 Camera installation on Android device

Search "PHYCAM" App from Google Play, download and install it.  
Start the App and then the following screen will appear.



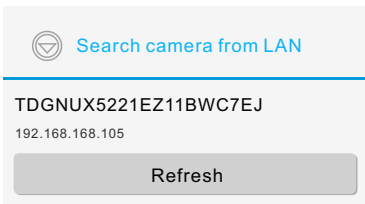
Press  to add a new camera.  
There are three ways to add a camera on the Android device.

There are three ways to add a camera on an Android device.

#### Option 1 Automatically search in Local Area Network

If your camera is in the same Local Area Network with your smart phone, the App can search the cameras automatically.

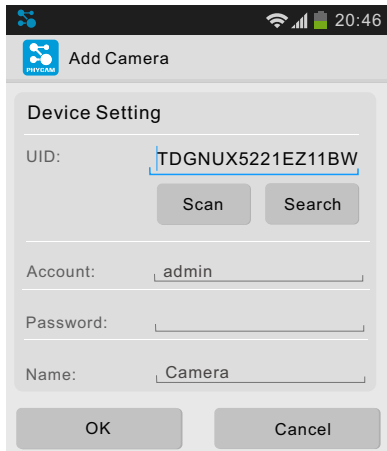
Enable Wi-Fi on Android device, press on **"Search"** button and the camera UID will shows up on **"Search camera from LAN"** screen. Then press the UID for the camera you are setting up.



Enter the **"Password"**.  
(The default Password is "admin".)

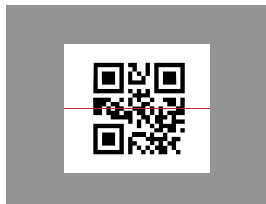
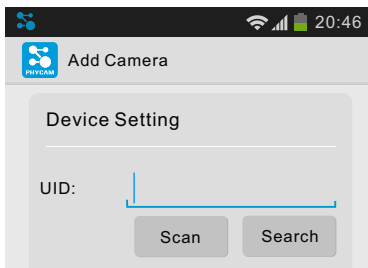
Assign a **"Name"** to the camera to help identify this camera if more than one camera is in use.  
(The default name is "Camera".)

Press **"OK"** button and then the camera will show up under the "Camera List".



**Option 2** Scan the camera UID using smart phone

Press **"Scan"** button to scan the QR Code from the UID sticker on the product.



Enter **"Password"**. (default password is "admin".)

Assign a **"Name"** to the camera to help identify this camera if more than one camera is in use.

Press **"OK"** button and your camera will show up under **"Camera List"**.

**Option 3** Manually type UID

If your camera is not in the same Local Area Network with your smartphone, the App can NOT search cameras for Local Network.

Press  and manually type **"UID"** according to the UID sticker on the product.

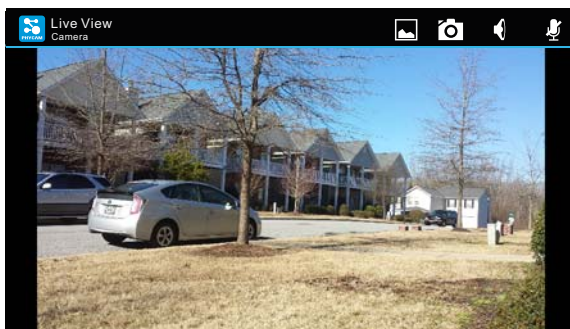
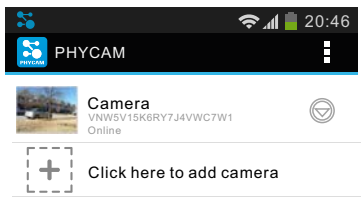
Enter **"Password"**. (default password is "admin".)





Assign a **"Name"** to the camera to help identify this camera if more than one camera is in use.

Press **"Save"** button and your camera will show up under **"Camera List"**.



Press on the camera name from **"Camera List"** for **"Live View"** via a wired connection.



- Press  to view saved pictures.
- Press  to take a snapshot of live view.
- Press  to start listening or stop listening.
- Press  to start speaking or stop speaking.

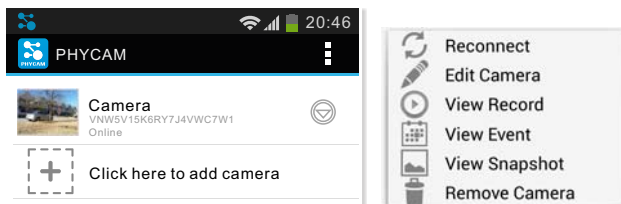
Press the **"Back"** button of Android to go back to the **"Camera List"**.

## 2.6.2 Wireless Setup on Android device

There are two ways to setup the wireless connection.

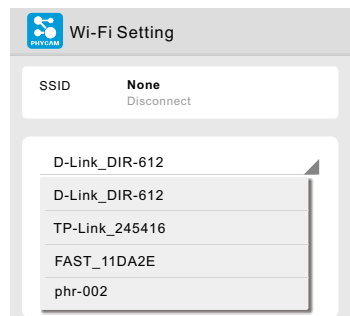
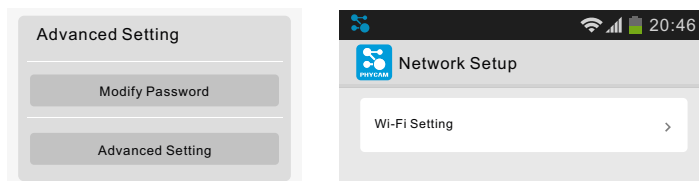
### Option 1 Quick setup with Smartphone

Press and hold camera name until the menu shown below pops up. And then press **Edit Camera**.



Go to **Advanced Setting > Network Setup** and press **Wi-Fi Setting**.

*Note: The "Advanced Setting" at the bottom of Edit Camera page. Maybe you need to scroll down the screen to find it.*



Press on the text box \_\_\_\_\_ to view the list of available networks. Select your network from the list and type in your Wi-Fi password, and press "OK" button to complete setup.

After successful wireless setup, remove the network cable and the camera should work through the wireless network after a short delay.

**Option 2   Quick setup with WPS function**

You may create a WiFi connect using the WPS Button on the back of the camera.

**▪ Step 1**

After the cameras start, press the **WPS button** on the back of the camera.

The blue **WPS status LED** above the button will blink.

**▪ Step 2**

Press the **WPS button** on your router within 60 seconds.

The camera will automatically create a wireless connection to your router.

While connecting, the **WPS status LED** will always on and your camera will reboot.

*Note: WPS also called QSS (Quick Secure Setup) on some brands of router.*

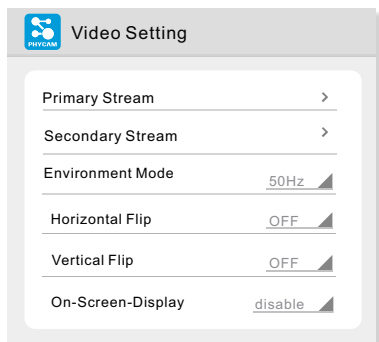
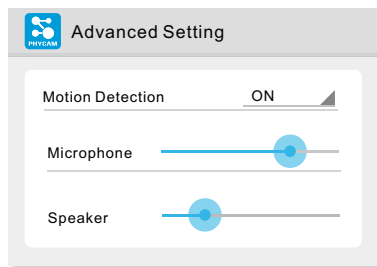
*On some routers, you may need to login to the web interface and then click on an onscreen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.*

## 2.6.3 Advanced Setting on Android device

### ■ Video Setting

There are two pre-programmed stream profiles: primary stream and secondary stream. These streams profiles help for quick setup.

The settings for these can be adjusted. Press on ➤ for the settings of stream profiles.



In the **Advanced Setting**, you can turn on or off the Motion Detection feature.

You can drag the volume bar to adjust the volume of speaker or Microphone.

There are four quality level of video can be set quickly.

You can also make further changes to the details of quality.

Please note that the higher the video quality, the more network bandwidth you will need to support it.

**[Environment Mode]** Two options: 50Hz & 60Hz. Set according to the mains frequency in the country of use.

For UK this would be 50Hz. For US this would be 60Hz.

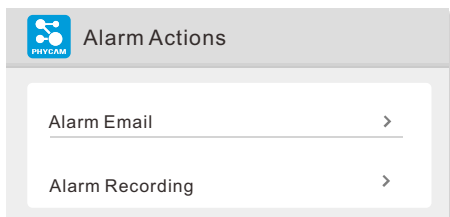
**[Pre-Recording]** The Pre-Recording Time control how long the video is recorded before motion detection is detected by a camera.

You can fill a value of seconds to adjust this times. (The Max value is 10 seconds)

**Video pre-recording** allows the camera to record up to 10 seconds of video leading up to a related trigger event. It will allows users to review the moments before the camera was triggered.

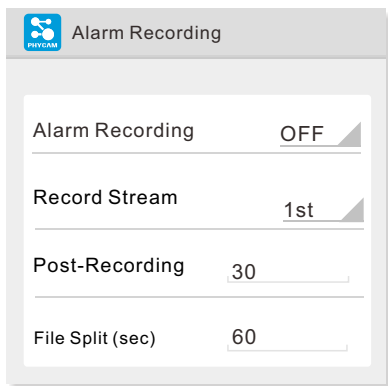
## ■ Alarm Actions

The camera refers to motion detection as an “alarm”. If any alarm occurs, the camera can trigger a recording and send an email.



Press on ➤ to enter the Alarm Recording settings or Alarm Email settings.

## ■ Alarm Recording



In the Alarm Recording settings, you can turn on or off the Alarm Recording feature. You can select which stream profile to record.

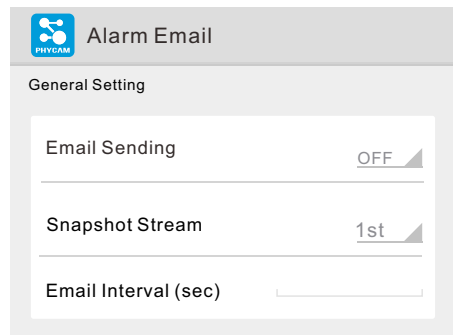
**[Post-recording]** The number of seconds that the camera should keep recording video after motion stops. If there is any motion within this time the camera will keep recording until there is no motion for the duration of this parameter. It can be from 5 seconds to 24 hours.

**[File Split]** This specifies the maximum duration of one file. If the recording goes on for longer than this parameter the camera will split the video into a number of files.

## ■ Alarm Email

For automatic emailing you will need both a mail server and one or more email receiving addresses.

If you don't have this information handy you may want to refer to your internet service provider's help pages or other email program account settings.



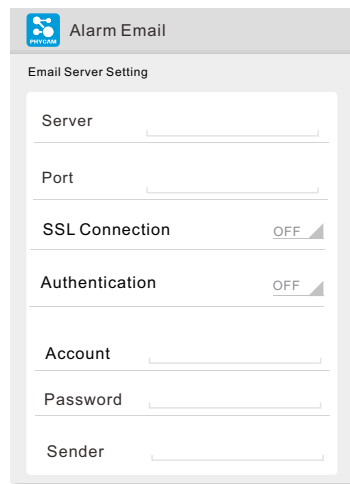
The screenshot shows the 'Alarm Email' settings window with a 'PHYCAM' logo. Under the 'General Setting' tab, there are three configuration items: 'Email Sending' set to 'OFF', 'Snapshot Stream' set to '1st', and 'Email Interval (sec)' with an empty input field.

In the Alarm Email settings, you can turn on or off the Alarm Email feature.

You can select the stream profile to snapshot for mail.

**[Email Interval]** Input the interval between two E-mails.

If you do not want to send mail too frequently, you can increase the time interval to send the E-mail.



The screenshot shows the 'Alarm Email' settings window with a 'PHYCAM' logo. Under the 'Email Server Setting' tab, there are seven configuration items: 'Server' (empty), 'Port' (empty), 'SSL Connection' set to 'OFF', 'Authentication' set to 'OFF', 'Account' (empty), 'Password' (empty), and 'Sender' (empty).

**[Server]** Input your E-mail's SMTP server name.

**[Port]** 25, as default.

**[SSL connection]** Select OFF. For Gmail, select ON. It depends on the mail system.

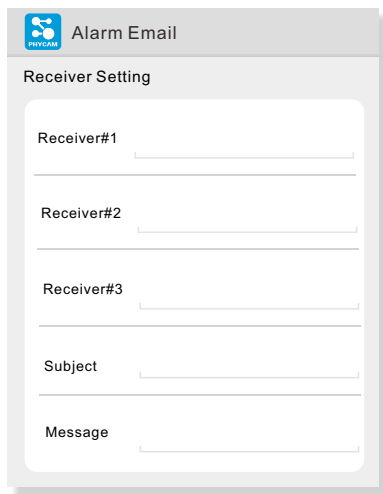
**[Authentication]** Select ON.

**[Account]** Input your E-mail user name.

**[Password]** Input your E-mail password.

**[Sender]** Input the sender mail address

**[Receiver mail address]** Input the receiver mail address.



**Alarm Email**

**Receiver Setting**

Receiver#1

Receiver#2

Receiver#3

Subject

Message

**[Receiver#]** Input the receiver mail address.

You can set up a total of three E-mail address.

**[Subject]** Input the subject of mail.

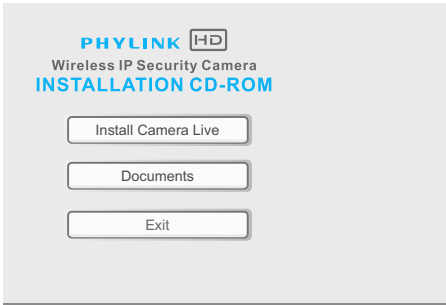
**[Message]** Fill with the content you want to send in the mail.

*Note: Gmail requires that you go to your account settings on Gmail.com and enable the POP feature (Post Office Protocol). If your Gmail account does not have POP enabled, the camera will not be able to send email.*

## 2.7 Camera Live installation on PC

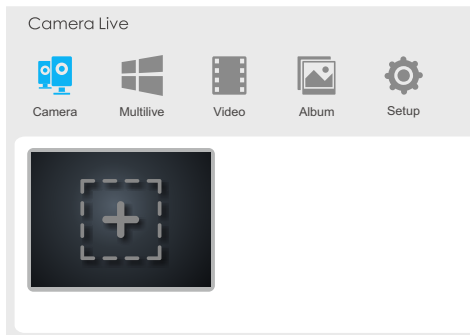
### 2.7.1 Camera Live installation on PC

Insert provided installation CD into computer's CD-ROM drive and then the installation window will appear. Click on the "Install Camera Live" button and follow the setup wizard to complete the software installation.



Note: If the Installation CD program does not start automatically open CD-ROM drive and double click on "autorun".

Double click the Phylink Camera Live icon to start the software after the installation is completed.



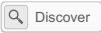
### 2.7.2 Add a camera to Camera Live

Click on  to add a camera, a pop-up window will appear as below.



A dialog box titled "Add Camera" with a light blue header. It contains three input fields: "UID", "Password", and "Name". To the right of the "UID" field is a "Discover" button with a magnifying glass icon. At the bottom right are "OK" and "Cancel" buttons.

**Add Camera**

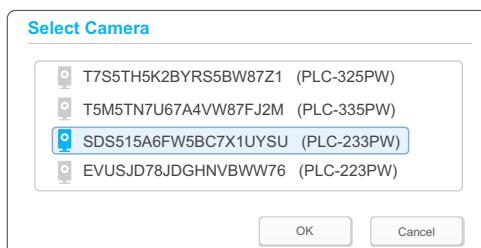
UID  

Password





Name



### Option 1 The camera is in your Local Area Network with your PC.

- Click "**Discovery**" button, the program will automatically search for available camera in Local Area Network. Select the required camera UID from the list.

A dialog box titled "Select Camera" with a light blue header. It contains a list of four cameras, each with a camera icon, a UID, and a model name in parentheses. The third camera, "SDS515A6FW5BC7X1UYSU (PLC-233PW)", is selected and highlighted with a blue border. At the bottom right are "OK" and "Cancel" buttons.

**Select Camera**

	T7S5TH5K2BYRS5BW87Z1	(PLC-325PW)
	T5M5TN7U67A4VW87FJ2M	(PLC-335PW)
	SDS515A6FW5BC7X1UYSU	(PLC-233PW)
	EVUSJD78JDGHNVBWW76	(PLC-223PW)




- Enter "password"(default password is "admin"). Assign a "Name" to the camera to help identify this camera if more than one camera is in use. Click on "OK" to save.
- Wait for a few minutes, then the icon  will turn in green , which means camera is online and connection established, otherwise it's in disconnection status, please check the UID and password you entered or your internet connection.

### Option 2 If you camera is not in the same Local Area Network with your PC, you can not discover the camera.

- Manually type the camera UID according to the sticker on the camera cable or product main body. The remaining steps are same, please refer to **option 1**.

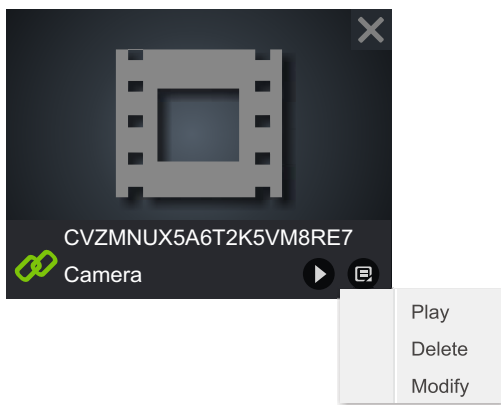
After the above steps, you have completed a camera installation and you can view the live video now.

## 2.7.3 Play, Delete and Modify cameras

- Click on  "menu" button to play/delete/modify camera.
- Click on  "play" button for live viewing. Or you can double click on the **Camera preview** for live viewing.
- Click on  "delete" button to delete a camera has been added.

In the lower left corner of camera preview, there is a camera connection status indication icon.


### Camera preview



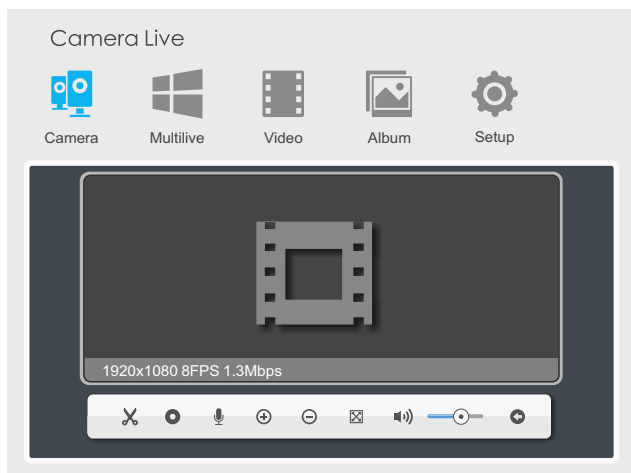
This icon indicates that the camera is online and connection established.



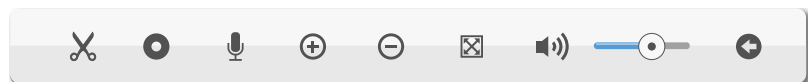
This icon indicates that the camera is in disconnection status. In this state you can not connect and view the camera. Please check the UID and password you entered or your internet connection. Also check the **Hardware Installation** of your camera.

Click  "play" button or double click on a camera preview, enter the live viewing mode. You can perform various operations with Play Control Panel at the bottom of live viewing window.

## Live Viewing Window



## Play Control Panel



Take a snapshot



Record video



Speak talk back



Zoom in display ratio



Zoom out display ratio



Full screen viewing



Back cameras preview





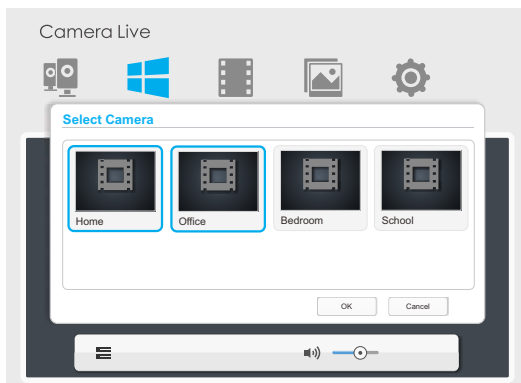
Mute



Volume control bar

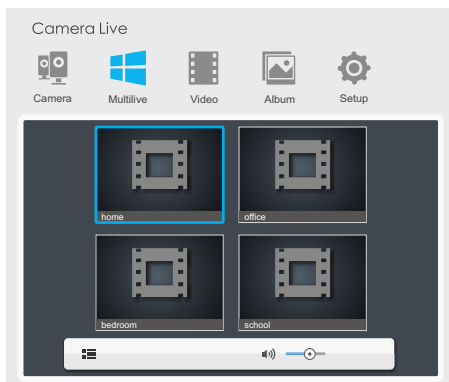
## 2.7.4 Muliti-viewing on one screen

Click on  "Muliti-Live" button from Main Toolbar, then click selection icon , the Select Camera window pop up as below.



All cameras has been added. will be listed out and then select the right cameras for Muliti-viewing on one screen.

Click a camera preview the camera will be added for the Muliti-viewing, then the camera preview will appear a blue border. Click the camera preview again, the blue border will disappear, that means the camera is deselected from the Muliti-viewing. Once you have made your selection click on "OK" to save.




If you want to listen to the sound of camera, you just need to click the live viewing window of camera, then the live viewing window will appear a blue border.

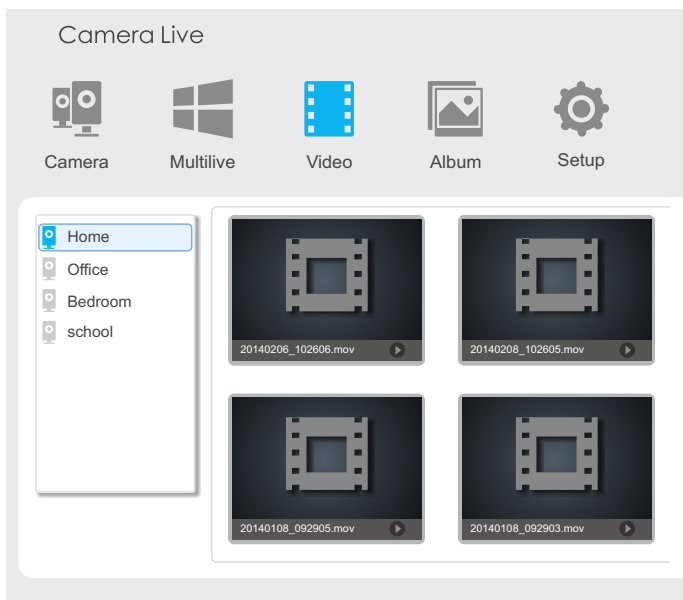
You can only listen one camera audio at the same time.

## 2.7.5 Video recording, Storage and Viewing

Click “play” button or double click on a camera preview, enter the live viewing window.

Click on  “Video recording” icon on Play Control Pane to start the video recording and then click on the icon again to stop the recording.

Click on  “Recorded video” icon from Main Toolbar, and select the camera from the list, then you can view and playback the recorded video.




*Note: The recorded video and photo files will be automatically created and you can find these files in **Camera Live folder** in My Documents.*

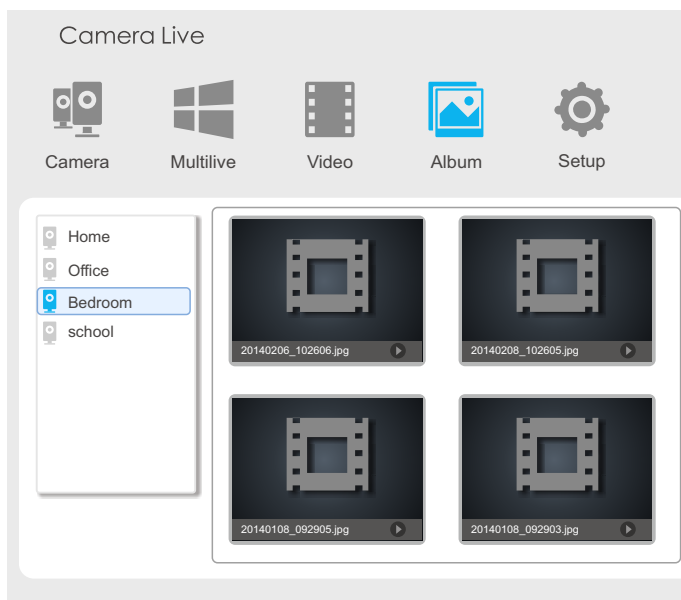
## 2.7.6 Snapshots, Storage and Viewing

Click "play" button or double click on a camera preview, enter the live viewing window.

Click on  "Snapshot" icon on Play Control Pane to take a snapshot.


Click on  "Album" icon from Main Toolbar, and select the right camera from the list then you can view the snapshots in Album.

*Note: The recorded video file will be automatically created and you can find these files in Camera Live folder in My Documents on desktop.*

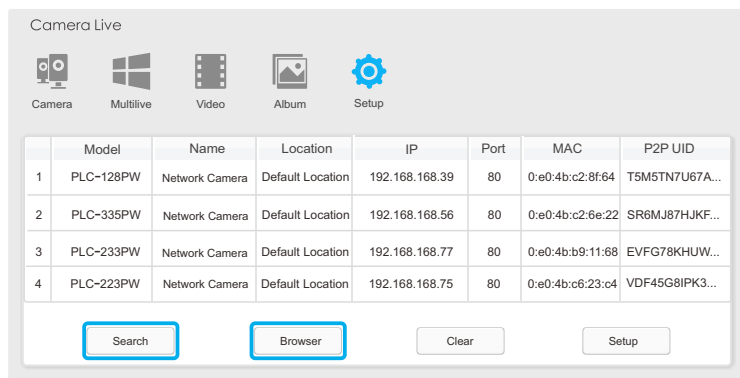


## 2.8 Installation via Web Browser

### 2.8.1 Viewing Camera via Web Browser

Start the Phylink Camera Live and click on  button from Main Toolbar to enter the advanced setting via a web browser. Press the **"Search"** button then the program should automatically find your camera if it is correctly connected.

Sometimes the program may take a few minutes to find your camera, so if your camera isn't displayed, wait a few moments and then click **"Refresh"** to search for cameras again.



Click the required camera from the camera list and it will be highlighted.  
Click the **"Browser"** button and then the **Camera Homepage** will appear.

*Note:*

1. If you can not search the camera, please check the connections of camera and computer. Please refer to **Hardware Installation**.
2. If you need to configure the network settings for the camera, select the required camera and click **"Setup"** button at the lower right corner of the window.



## Camera Homepage

Click the **"Live Video"** button to view live camera.

Click the **"Setting"** button to setup your camera with its various settings.

When prompted for authentication use the following information.

- **User Name: admin** (The default User Name is "admin".)
- **Password: admin** (The default password is "admin".)

The address in the web browser's address bar should look something like `http://192.168.1.50` – this is your cameras local IP address.

*Note: When using the camera for first time on a PC with Internet Explorer, the user may be prompted to select allow installation of "Active X" control. It is perfectly safe to install this add-on, so click "Allow" to install.*



## 2.8.2 Wireless Setup on PC via Web Browser

Please note that if you have already set up the wireless connection using the Smartphone App, you can skip this step.

After login the camera via browser, click "**Setting**" button to configure the camera. Go to **Network > Wireless Setup** and then the following screen will appear.

**PHYLINK** Live View | Wizard | System | Support | Reboot

**Wireless Setup**

Wireless: ☒ Enable ☐ Disable

SSID:  

Mode:  (Select infrastructure mode using wireless router.)

Security mode:

**Camera**

**Network**

- Wireless Setup
- TCP/IP Setup
- DDNS Setup
- UPNP Setup
- P2P Setup

**Storage**

**Task**

**Tools**

Do NOT type anything in the SSID field. Instead, click the "**Search...**" button so that the camera can search for available Wi-Fi networks.

	SSID	Mode	Channel	Auth	Encrypt	Signal
<input type="radio"/>	wirelessnc	Infrastructure	9	OPEN	NONE	
<input checked="" type="radio"/>	TP-LINK_4B8C68	Infrastructure	1	WPA2PSK	AES	
<input type="radio"/>	FAST_3AC1FE	Infrastructure	13	WPA2PSK	AES	
<input type="radio"/>	Tenda_0B0458	Infrastructure	13	WPA2PSK	AES	

Select your Wi-Fi network from this list then click "**OK**", and check if your network name has now been filled into the SSID field.

**PHYLINK**

Live View | Wizard | System | Support | Reboot

### Wireless Setup

Wireless: ☒ Enable ☐ Disable

SSID:  

Mode:    
(Select infrastructure mode using wireless router.)

Security mode:

Encryption type:

WPA Key:

Re-type WPA Key:

- ▶ Camera
- ▼ Network
  - Wireless Setup**
  - TCP/IP Setup
  - DDNS Setup
  - UPNP Setup
  - P2P Setup
- ▶ Storage
- ▶ Task
- ▶ Tools

Do NOT change any of the settings ( SSID, Mode, security mode, Encryption type )  
Enter the "WPA Key".

Note: WPA Key also known as wireless key or password and they are case sensitive.

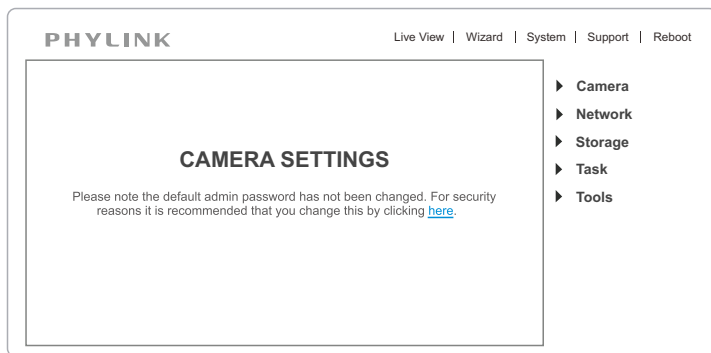
Click the "**Apply**" button and then "Wireless setup accepted successfully" message  
will be displayed.

Now you should click the "**Test**" button to check if all the information about the  
wireless was entered correctly.

If the test reports "Success!" you can remove the network cable and the camera  
should work through wireless network after a short delay.

## 3.1 Network Camera Setting Interface

Click on **Setting** button from the home page. When connecting the camera for the first time or after resetting it to its default settings, the setup interface start page below will load. It is recommend that you change the admin password in order to avoid unauthorized access to the camera. To do this follow the instructions by clicking on the underlined link “**here**” to access administrator password editing page.



Type the password in both fields then click Save. Please take note of the password. If you forget the password, the camera will have to be reset to its default settings in order to gain access to the settings page and this will also reset all other settings you may have changed.

### Edit User

User name:

Admin

Password:

•••••

Re-type password:

•••••

Save

Delete

Back

After successful login, the following page will appear.

\* User modified successfully!

User Management

No.	User name	Group
1	<a href="#">Admin</a>	Administrators

Add

## 3.2 Camera

### 3.2.1 Camera Setup

From the home page click **setting** button and enter the administrator user name and password. Click on **Camera Setup** under the title **Camera** to change the image and audio parameters of the camera.

▼ **Camera**

**Camera Setup**

Stream Setup

OSD Setup

Night Vision Setup

**[Enable privacy mode]** The video of camera display always a static colored stripes for protecting your privacy.

**[Disable power LED light]** The Status LED will be power off.

**[Light frequency]** Two options: 50Hz & 60Hz. Set according to the mains frequency in the country of use.

For UK this would be 50Hz. For US this would be 60Hz.

**[Microphone]** Turn on/off the built-in microphone.

**[Mic volume]** Adjusts the volume of the microphone from 0~14 where 0 is the lowest.

Click **Apply** to confirm your settings.

Camera Setup

System:

☐ Enable privacy mode

☐ Disable power LED light

Camera:

Light frequency:

☐ Enable image mirror

☐ Enable image flip vertical

Microphone: ☒ Enable ☐ Disable

Volume:

Speaker: ☒ Enable ☐ Disable

Volume:

### 3.2.2 Stream Setup

The camera supports three streams: primary stream, secondary stream and mobile stream. Change the streaming settings for your camera. This is useful if you require a certain size of video stream, a certain quality, or different streams for different devices (such as laptop or mobile phone).

#### Primary stream:

Preset:	Please choose bandwidth status... ▼	
Image size:	1280x720 ▼	
Frame rate:	30 ▼	fps
H.264/MPEG4 bitrate:	2048 ▼	kbps
MJPEG quality:	50	(20-100)
JPEG snapshot quality:	90	(20-100)
Audio:	AAC-LC 16kbps ▼	
Authentication:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Prerecord:	Disable ▼	

**[Image size]** Three image resolutions available: 640 x 480(VGA), 320 x 240(QVGA), 160 x 120.

**[Frame rate]** Twelve options: 1/2/3/4/5/6/8/10/15/20/25/30 frames per second (fps).

**[H.264/MPEG4 bit rate]** Select H.264/MPEG4 bit rate. Eight options: 64, 128, 256, 512, 768, 1024, 1536, 2048 (kbps).

**[MJPEG quality]** Type MJPEG video quality. (20 – 100), 20 is low quality, 100 is high quality.

**[Snapshot quality]** Type snapshot quality. (20 – 100) , 20 is low quality, 100 is high quality.

The above five settings determine the image quality, however higher bit rates require greater bandwidth. Please select the appropriate settings according to your connection speed and network traffic. If you are experiencing jerky video it may be necessary to decrease the bit rate.

**[Audio]** Enable or disable audio.

**[RTSP authentication]** Enable or disable RTSP authentication.

You can use Mobile phone to play the mobile stream from camera, but generally Mobile phone do not support authentication, so we have to disable the RTSP authentication.

**[Prerecord]** Phylink camera can buffer a 3-10 seconds pre-record stream. This stream can be record to SD card or NAS. This feature allows users to review what occurred in those vital moments before the camera was triggered. In some situations, these are very important. The Pre-record will help you catch everything.

[Secondary stream:](#)

Preset:	Please choose bandwidth status... ▼	
Image size:	512x228 ▼	
Frame rate:	10 ▼	fps
H.264/MPEG4 bitrate:	256 ▼	kbps
MJPEG quality:	50	(20-100)
JPEG snapshot quality:	90	(20-100)
Audio:	AAC-LC 16kbps ▼	
Authentication:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Prerecord:	Disable ▼	

[Mobile stream:](#)

Preset:	Please choose bandwidth status... ▼	
Image size:	176x114 ▼	
Frame rate:	6 ▼	fps
H.264/MPEG4 bitrate:	30 ▼	kbps
JPEG snapshot quality:	70	(20-100)
Audio:	AAC-LC 16kbps ▼	
Authentication:	<input checked="" type="radio"/> Enable (For PC) <input type="radio"/> Alternate (For Windows Mobile) <input type="radio"/> Disable (For other mobiles)	

For access to specific types of audio or video encoding, you bypass the main login screen and go directly to a link for the camera with the desired protocol and encoding type. The full list is accessible by clicking on the blue underlined “**Primary Stream**” or “**Secondary Stream**” links in the Stream Setup page.

*Note: Clicking on the name of the stream will display the various paths to the particular video stream.*

A sample of **primary stream** list as below:

## Primary Stream List

Intranet stream URL	
RTSP H.264 stream:	rtsp://192.168.1.101/live/0/h264.sdp
RTSP MPEG4 stream:	rtsp://192.168.1.101/live/0/mpeg4.sdp
RTSP MJPEG stream:	rtsp://192.168.1.101/live/0/mjpeg.sdp
RTSP audio stream:	rtsp://192.168.1.101/live/0/audio.sdp
HTTP M3U8 stream:	http://192.168.1.101/live/0/h264.m3u8
HTTP MJPEG stream:	http://192.168.1.101/live/0/mjpeg.jpg
HTTP snapshot image:	http://192.168.1.101/live/0/jpeg.jpg
Internet stream URL	
UPnP port forwarding is not enabled, or Gateway does not support UPnP.	

[Back](#)

There are a number of video streams available. You can configure settings for the primary and an optional secondary video stream. Configuring a secondary stream is useful for providing a video stream that is at a lower resolution than the primary stream to third-party devices or software. Some devices and software require lower resolution.

You can use RealPlayer, VLC Player or QuickTime Player to play the live stream from camera in Intranet or Internet.

RTSP streams can be opened by the "Open URL..." menu in Apple QuickTime 7.0 or later and "Open Network..." menu in VLC 2.0 version on Macintosh or Windows desktop with audio and video.



### 3.2.3 OSD Setup

This function can display system name, date and time, or use-defined on screen.

#### On Screen Display Setup

OSD:

☒ Enable ☐ Disable

- ☒ Display date and time
- ☐ Display system name
- ☐ Display the text

Camera

Apply

[OSD] Enable or disable OSD function.

[Display date and time] OSD is date and time of camera.

[Display system name] OSD is system name of camera.

[Display the text below] OSD is user-defined text.

Click **Apply** to confirm your settings.

### 3.2.4 Night Vision Setup

The camera can be opened automatically when camera check dark environment.

#### Night Vision Setup

Infrared LED control:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
Black and white mode:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
Moonlight mode:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
IR cut filter control:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off

Apply

**[Infrared LED control]** When the environment is dark, the LED will be opened automatically due to a photosensitive component. Users also can select open or close the infrared LED manually.

**[Black and white mode]** When the environment is dark, the moving images will be changed to Black and White automatically. Users also can select whether change the images to black and white or color manually.

**[Moonlight mode]** Boosts the available light by reducing the frame rate to 7.5 fps. It can be set to "On", "Off", and "Automatic". This uses the light sensor to turn on moonlight mode only at night. When "Moonlight model" is "auto" or "On", the cameras produce gorgeous night vision, especially the outdoor serials

**[IR Cut Filter control]** Can be "On", "Off" and "Automatic". The cameras with IR Cut Filter have a feature that combines the excellent daytime color with the IR night vision.

During the day, an optical "IR Cut filter" removes all IR light. This makes the camera's vision similar to a human eye which does not see IR light, and therefore all colors appear vivid and natural to us. At night, the filter moves out of the optical path to enable IR night vision. You can actually hear a muted click when this filter moves in or out. This happens both during power-up and when light levels change between day & night.

*Note: If you are using the cameras to look through a window, you should set the night vision mode to turn off the IR LEDs and instead turn on the automatic moonlight mode. Otherwise the IR LEDs would reflect off the window glass and the glare would make everything almost invisible.*

## 3.3 Network

### ▼ Network

#### Wireless Setup

TCP/IP Setup

DDNS Setup

UPNP Setup

### 3.3.1 Wireless Setup

The camera corresponds to the wireless system based on IEEE802.11b/g/n. Encryption establishes the security to prevent unauthorized users to access the wireless data communication.

PHYLINK

Live View | Wizard | System | Support | Reboot

Wireless Setup

Wireless: ☒ Enable ☐ Disable

SSID:  

Mode:    
(Select infrastructure mode using wireless router.)

Security mode:

► Camera

▼ Network

Wireless Setup

TCP/IP Setup

DDNS Setup

UPNP Setup

P2P Setup

► Storage

► Task

► Tools

[SSID] Type the ID of the wireless network you want to connect to using up to 32 characters or click **Search** to search for available networks.

[Mode] Infrastructure mode and Adhoc mode

**Adhoc Mode:** Select Adhoc mode when the camera is directly connected to your computer.

**Infrastructure Mode:** Select Infrastructure mode when the camera is connected via an access point or router.

**PHYLINK** Live View | Wizard | System | Support | Reboot

**Wireless Setup**

Wireless: ☒ Enable ☐ Disable

SSID:

Mode:   
(Select infrastructure mode using wireless router.)

Security mode:

Encryption type:

WPA Key:

Re-type WPA Key:

► Camera  
▼ Network  
  Wireless Setup  
  TCP/IP Setup  
  DDNS Setup  
  UPNP Setup  
  P2P Setup  
► Storage  
► Task  
► Tools

**[Security mode]** Security mode is not only WEP64bit or WEP128bit but also WPA-PSK or WPA2-PSK.

**[Encryption type]** TKIP and AES.

**[WPA key]** Type 8-63 characters as password.

**[Re-type WPA key]** Re-confirm the password.

	SSID	Mode	Channel	Auth	Encrypt	Signal
<input type="radio"/>	wirelessnc	Infrastructure	9	OPEN	NONE	
<input checked="" type="radio"/>	TP-LINK_4B8C68	Infrastructure	1	WPA2PSK	AES	
<input type="radio"/>	FAST_3AC1FE	Infrastructure	13	WPA2PSK	AES	
<input type="radio"/>	Tenda_0B0458	Infrastructure	13	WPA2PSK	AES	

When click search ,see figure above.

**[SSID]** select the network name you searched .

**[Mode]** Infrastructure mode and Adhoc mode

**[signal]**It show out the strength of signal

**[Encryption]** on and off.

Click **Apply** to save changes.

Click **Test** to test whether connection is successful.

### 3.3.2 TCP/IP Setup

The camera is set up to obtain the IP address automatically (DHCP) by default. Should you may wish to assign the IP address manually, use the **TCP/IP Setup** page to enter the address details.

#### TCP/IP Setup

- ☒ Obtain an IP address automatically(DHCP)
- ☐ Use the following IP address
  
- ☒ Obtain DNS Server address automatically
- ☐ Use the following DNS server address

HTTP/RTSP port:

RTP port range:

--

Obtain an IP address automatically(DHCP):

If your network supports a DHCP server (e.g. router) select this option to have the IP address is assigned automatically.

If you select **Obtain an IP address automatically** you should select Obtain a DNS Server address automatically.

#### Use the following IP address

Select this option when a fixed IP is required.

[**IP address**] Type the IP address of your camera.

[**Subnet mask**] Type the subnet mask.

[**Default gateway**] Type the default gateway.

#### Obtain DNS Server address automatically

If your network supports a DHCP server (e.g. router) select this option to have the DNS Server address is assigned automatically.

Use the following DNS server address:

[**Primary DNS IP address**] Type the IP address of the primary DNS server.

[**Secondary DNS IP address**] Type the IP address of the secondary DNS server, if necessary.

[**HTTP/RTSP port**] The default HTTP port number is 80, it is also be used as RTSP port.

[**RTP port range**] It is for UPnP port forwarding, 1 camera actually use 2 RTP ports, one for video, the other for audio. (See UPnP setup)

[**HTTP/RTSP Authentication method**] Select Basic Authentication or Digest Access Authentication.

### 3.3.3 DDNS Setup

Dynamic DNS (DDNS) is simply a way of using a static hostname to connect to a dynamic IP address. When connected to your ISP, you are assigned a temporary IP address. DDNS services keep track of your IP address and route your Domain name to that address when you wish to connect to the camera from a remote location.

#### DDNS Setup

DDNS: ☒ Enable ☐ Disable

Service provider:  [Register](#)

Host name:

User name:

Password:

Re-type password:

Follow the following steps to set up DDNS.

1. Enable the Dynamic DNS function.
2. Select your preferred DDNS service provider from the list then click Register.
3. Enter the Host Name details and password supplied by your DDNS service provider when you registered.
4. Click Apply to confirm your settings.

#### Guide to you setup DDNS by a example

Looking up the current IP address can be inconvenient, and buying a static IP address is an unnecessary monthly expense. There is an example to guide you how to setup a DDNS of camera.

##### ■ Choose a Dynamic DNS service

www.no-ip.com and www.dyndns.com are the recommended companies for “Dynamic DNS” service. Also known as DDNS, this is a totally free service that allows your own name to be assigned to your camera. This name takes the place of the IP address. Together with software in your camera this also makes sure the name for your camera is always updated with the correct IP address.

### ■ Create a free DDNS account

First you create a free account with one or both of these companies. We'll take [www.no-ip.com](http://www.no-ip.com) as an example. The "create account" function is on the top right under the Username/ Password fields. Do not register a domain or sign up for any other paid services. You just need the free account. Once you have an account and once you validated it by responding to their email, log in and select "Hosts/ Redirects" on the top left of the screen, then "Add Host". For Hostname, pick anything you like as a name for your camera, except do not use spaces. Use only lower case letters and numbers. Then click on the domain names you can pick from, as well as some that they consider premium names worth paying for.

For example, you could pick [servehttp.com](http://servehttp.com) as your demo cameras.

Then be sure that only "DNS Host (A)" is selected. Don't worry about the current IP address and don't change anything else. Click on "Create Host" and you're done! Please write down your complete hostname as well as the username and password you used for logging in to No-IP.com as you'll need it for the next step. DynDNS.com is very similar but in their case there is an additional step of checking out a shopping cart with a zero dollar fee.

### ■ Updating of your Camera's Internet IP address

In the previous step we set up a name for your camera. To make sure that this hostname always corresponds to the correct IP address for your camera we have to make sure it is updated automatically when there is a change. There is no need for client software.

Our IP cameras have a **DDNS** menu that allows you to enter your hostname information. This **DDNS** menu is under "**Network**" in the camera's "**Settings**". Be sure to select the **DDNS** provider, for instance if you signed up with No-IP.com you should select No-IP in the camera's **DDNS** menu.

*Note: If you have only just registered your DDNS account, it may take a while until your account is activated and fully registered on the internet. Some of the DDNS services listed offer free and paying services.*

After you enter your account and hostname information you can go to the camera's **"System"** menu at the top of the **Settings** screen and scroll down to the DDNS section to see if it worked.

DDNS	
Status:	Success
Host name:	phylinkipcamera.sevehttp.com
External IP address:	183.48.162.134

If it says "Updating" or Unavailable" you should double check your account settings. No-IP.com uses your complete email address as user name, and the password required in this menu is the one you created during No-IP account setup. If successful the camera will show you the complete external URL for your reference.



### 3.3.4 UPNP Setup

The camera supports UPnP which is enabled by default. This function requires a Windows XP/Vista operating system. It is a quick way to discover the camera on your network. Please make sure that the UPnP function is enabled on your PC.

#### UPNP Setup

UPNP: ☒ Enable ☐ Disable

Gateway HTTP/RTSP port forwarding: ☒ Enable ☐ Disable

External HTTP/RTSP port range:  --

Gateway RTP port forwarding: ☒ Enable ☐ Disable

External RTP port range:  --

Note: RTP port range can't be changed here, you should change it in TCP/IP setup page.

Apply

[UPnP] Enable or disable the UPnP function.

[Gateway HTTP/RTSP port forwarding] Enable or disable this function.

[External HTTP/RTSP port range] Using this port, automatically adds a port forwarding rule to a router via UPnP protocol. Please note that not all routers support this function. Refer to your router manual for further details.

If set port range is 8150~8350, camera will ask router to add a port forwarding rule automatically. In this rule, the internal port is camera default port 80, the external port is 8150, IP address is camera's IP. Use this setting, users can visit the camera from Internet through the router with this URL <http://routeripaddress:8150>.

If there are several cameras in Local Network, the first one which first be opened will use 8150 as external port, and second one will use 8151, third one use 8152, etc. Every camera will remember its port, it will preferentially use this port in next power on.

**[Gateway RTP port forwarding]** Enable this function, users can use mobile phone , RealPlayer or QuickTime Player to visit the camera from Internet through the router.

**[External RTP port range]** 30000—30200 default. (See TCP/IP setup)  
Click **Apply** to confirm your setting.

Click **System** at the top right of **Settings** page to show the System information. If UPnP works, clicking on the camera's "system" menu at the top of the setting screen will show something like the following in the UPnP section:

UPNP	
Status:	Success
Gateway external IP address:	121.35.168.19
Gateway external port:	8150
Internet URL:	http://myphylinkcam.3322.org:8150

*Note: If UPnP did not work, and if you have an up to date router other than Apple Airport, it is worth double checking if UPnP is enabled in your router. Some Routers like the ActionTec and Westell units distributed for free with Verizon and Qwest DSL service have the feature initially disabled. Usually it is very simple to enable UPnP. You just need to log in to your router's setup screen and find the UPnP menu. Then you click on enable, save the setting and restart both the router and the camera (in that order).*

*Many routers may need a firmware update for UPnP to be available or work properly. You should look up your router's model number on your router manufacturer's support web page to see if updates are available.*

## 3.4 Storage

### 3.4.1 Storage Setup

#### ▼ Storage

##### Storage Setup

Browse Storage

Format SD Card

##### Storage Setup

Storage: ☒ Enable ☐ Disable

Store to: ☐ NAS ☒ SD card

Store directory:

Max Space:  ▼

Max files:  ▼

Apply

[**Storage**] Select Enable

[**Store to**] NAS or SD Card

[**Store directory**] The file that Videos will be saved to.

[**Max Space**] Unlimited (The capacity of all videos)

[**Max files**] The Max quantity of all the videos.

Click **Apply** to confirm your setting.

## 3.4.2 Browse Storage

When click Browse Storage and you can browse, download, delete the snapshot and recording files in it.

### Browse Storage

No.	Directory	Files
1	<a href="#">All</a>	SD card not ready, please wait...
2	<a href="#">Snapshot on Alarm</a>	0
3	<a href="#">Snapshot at Interval</a>	0
4	<a href="#">Record on Alarm</a>	0
5	<a href="#">Continuous Record</a>	0

Refresh

## 3.4.3 Format SD Card

Click **Format** to format SD card click , all the recorder files will be lost after format.

### SD Card Format

Storage	
Status:	Ready
Store to:	SD card
Total:	31486 MBytes
Used:	19498 MBytes
Available:	11988 MBytes

Format

### 3.4.4 Recording to NAS

Getting your camera recording to a NAS drive, please follow 3 steps below.

#### ■ 1. Prepare your NAS

Ensure that your NAS drive is compatible with the CIFS or SMB protocol – most are but best to check first anyway (refer to the user manual for your NAS box).

Locate and make a note of your IP address of your NAS box (this can be found within your NAS settings or by using the Search program that came with the drive). Should be in the form something like 192.168.x.x or 10.x.x.x

Create a folder in the root of your NAS drive for where you want the video to be saved to. e.g. /camvideo. The camera only saves to folders one directory deep from the root of the NAS drive (e.g. 192.168.1.3/camvideo) so don't create a directory like /myfiles/downloads/camera/video.

We recommend you now create a new user login in your NAS drive settings. When creating the user, give it access to the directory you have just created, and make sure it has Read and Write access to it. If your NAS drive doesn't allow you to create new users, or you don't want to, just remember your admin username and password.

If you are unsure about any of the above please refer to your NAS drive's manual or the manufacturer's technical support.

#### ■ 2. Entering the NAS settings into your camera

##### Storage Setup

Storage:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Store to:	<input checked="" type="radio"/> NAS <input type="radio"/> SD card
NAS remote path:	<input type="text"/> (Example: //192.168.168.50/ipcam_files)
Authorization:	<input type="radio"/> Yes <input checked="" type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="password"/>
Re-type password:	<input type="password"/>
Store directory:	<input type="text" value="IPCAMERA"/>
Max Space:	<input type="text" value="Unlimited"/>
Max files:	<input type="text" value="5000"/>
<input type="button" value="Apply"/>	

**[Storage Select]** Select whether you want to record on NAS or micro SD card.

**[NAS remote path]** Enter the path that you wish to save the files to on your NAS Drive. Remember the camera only accepts one level directory e.g. //192.168.1.3/camvideo as opposed to //192.../cam/abc.

**[Authorization1]** Select whether authentication is required by the NAS Drive.

**[User name] & [Password]** Type the user name and password of the NAS Drive. This field is required if your NAS Drive requires authentication.

To complete click **Apply** to confirm and Save your settings.

### ■ 3. Create a task in Task Management

Create a task in Task Management to set the camera to record to your NAS based on Alarm or Continuously

#### Task Management

No.	Enable	Schedule	Task
1	<input type="checkbox"/>	Always ▼	<a href="#">Email alarm sending</a>
2	<input type="checkbox"/>	Always ▼	<a href="#">Email periodic sending</a>
3	<input type="checkbox"/>	Always ▼	<a href="#">FTP alarm sending</a>
4	<input type="checkbox"/>	Always ▼	<a href="#">FTP periodic sending</a>
5	<input type="checkbox"/>	Always ▼	<a href="#">HTTP alarm sending</a>
6	<input type="checkbox"/>	Always ▼	<a href="#">HTTP periodic sending</a>
7	<input type="checkbox"/>	Always ▼	<a href="#">Snapshot to storage on alarm</a>
8	<input type="checkbox"/>	Always ▼	<a href="#">Snapshot to storage periodically</a>
9	<input type="checkbox"/>	Always ▼	<a href="#">Record to storage on alarm</a>
10	<input type="checkbox"/>	Always ▼	<a href="#">Record to storage continuously</a>
11	<input type="checkbox"/>	Always ▼	<a href="#">Send files in storage to FTP server</a>
12	<input checked="" type="checkbox"/>	Always ▼	<a href="#">Push notification</a>

Apply

Select the task you want to set and then access it, e.g. click on the 'Record to storage on alarm' link if you want to get the camera to record to your NAS drive based on motion detection. Now set whatever you want as the parameters for this (or leave as default if you just want to try things out. You can always come back and fine tune these later).

#### Record to Storage on Alarm

Record from:	<div>Primary stream ▾</div>
Post-recording time:	<div>30</div> seconds (5-86400)
Split duration:	<div>60</div> seconds (10-1200)
Record thumbnail:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Record file name:	<div>MA</div>
Suffix of file name:	<input type="radio"/> Date time <input checked="" type="radio"/> Date time & record time length

Apply

Back

*Note: Always click APPLY after making any changes you want to Save!!!!*

Now, providing everything is set up correctly your camera will record to your NAS drive whenever motion is detected.

## 3.5 Task

### 3.5.1 Motion Detection

The camera refers to motion detection as an “alarm”. You can select what you want the camera to do once the motion is detected. The factory default setting for motion detection is a single motion detection window covering the entire visible area. The “Motion Detection” menu allows you to designate up to 4 separate windows with individually adjustable sensitivity.

After selecting “Motion detection” from the main settings screen, you may need to expand the size of the display window towards the right to see the 4 controls for individual motion detection windows. Each window can have individually adjustable sensitivity and threshold.



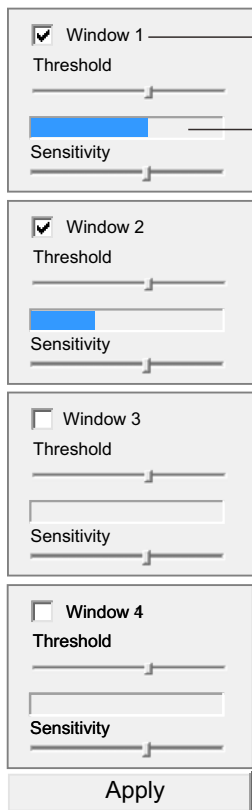
**[Window]** Check this box to enable the window.

**[Threshold]** Determines at what point the alarm is triggered. A lower threshold means less motion is needed to trigger the alarm. A higher threshold means more motion is needed to trigger the alarm. Threshold is indicated by the blue bar when motion is detected.

**[Sensitivity]** Determines how easily the camera detects motion. Lower sensitivity means the camera is less likely to detect motion. Higher sensitivity means the camera is more likely to detect motion.

Click **Apply** to confirm your setting.





Checked the windows box to enable this window.

Threshold bar and indicator

1. When you enable, disable, relocate or resize a window click Apply to for the new settings to be enable.
2. Only the checked window area will trigger the alarm.
3. Moving the Threshold bar to the left or the Sensitivity bar to the right will increase the sensitivity of when the alarm is triggered.
4. To resize a window simply drag one of its corners.
5. To move a window click and drag on the top bar of the window (Window name).

Apply

To trigger an alarm (and hence send out emails or upload to an FTP server etc) the detected amount of motion needs to be larger than the threshold setting. If the blue level does not reach the threshold setting the motion is ignored. To reduce the chance of false alarms you would increase the threshold (move threshold slider to right) or decrease sensitivity (move sensitivity slider to left)

### 3.5.2 Schedule Setup

The alarm that the motion detection triggers can be set to be active or inactive at certain times of the week.

You can set up to 4 schedules, and for each schedule, you are allowed to set up to eight timetables. You can use these to send alarms to different places, such as emails, FTP, SD card or NAS.

#### Schedule Setup

Schedule ID:

No.	Enable	Time				Days													
1	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	- 24	<input type="text" value="0"/>	S	<input type="checkbox"/>	M	<input type="checkbox"/>	T	<input type="checkbox"/>	W	<input type="checkbox"/>	T	<input type="checkbox"/>	F	<input type="checkbox"/>	S	<input type="checkbox"/>

Apply

**[Schedule ID]** Select the ID, you can save up to four schedules and use them for different purposes.

**[Start time]** Start time of the alarm.

**[End time]** End time of the alarm.

**[Days]** You can choose any day among Monday to Sunday to set the trigger alarm.

Click **Apply** to confirm your setting.

### 3.5.3 Task Management

#### Task Management

No.	Enable	Schedule	Task
1	<input type="checkbox"/>	Always ▼	<a href="#">Email alarm sending</a>
2	<input type="checkbox"/>	Always ▼	<a href="#">Email periodic sending</a>
3	<input type="checkbox"/>	Always ▼	<a href="#">FTP alarm sending</a>
4	<input type="checkbox"/>	Always ▼	<a href="#">FTP periodic sending</a>
5	<input type="checkbox"/>	Always ▼	<a href="#">HTTP alarm sending</a>
6	<input type="checkbox"/>	Always ▼	<a href="#">HTTP periodic sending</a>
7	<input type="checkbox"/>	Always ▼	<a href="#">Snapshot to storage on alarm</a>
8	<input type="checkbox"/>	Always ▼	<a href="#">Snapshot to storage periodically</a>
9	<input type="checkbox"/>	Always ▼	<a href="#">Record to storage on alarm</a>
10	<input type="checkbox"/>	Always ▼	<a href="#">Record to storage continuously</a>
11	<input type="checkbox"/>	Always ▼	<a href="#">Send files in storage to FTP server</a>
12	<input checked="" type="checkbox"/>	Always ▼	<a href="#">Push notification</a>

Apply

The camera refers to motion detection as an “alarm”. You can select what you want the camera to do once the motion is detected

**[Enable]** Enable task.

**[Schedule]** Option to choose always or set a particular schedule.

**[Task]** Task function.

Click **Apply** to confirm your setting.

### 3.5.3.1 Email alarm sending

Snapshot from:	Primary stream ▾
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 ▾ fps
Alarm interval:	0 seconds (0-86400 0:continuous)
Image file name:	PA
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time <input type="radio"/> None
SMTP server name:	
SMTP server port:	25
Secure SSL connection:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	
Password:	
Re-type password:	
Sender mail address:	
Receiver mail address:	
Subject:	Warning from Network Camera
Message:	

[Snapshot from] Select Primary stream

[Snapshot duration] Input the number of seconds

[Snapshot frame rate] Select the frame

[Alarm interval] Input the interval time

[SMTP server name] Input your E-mail's SMTP server name.

[SMTP server port] 25, as default.

[Secure SSL connection] Select No. For Gmail, select Yes.  
It depends on the mail system.

[Authentication] Select Yes

[User name] Input your E-mail user name.

[Password] Input your E-mail password.

[Sender mail address] Input the sender mail address

[Receiver mail address] Input the receiver mail address.

Click Apply to confirm your setting.

For automatic emailing you will need both an outgoing email server and one or more email receiving addresses. If you don't have this information handy you may want to refer to your internet service provider's help pages or your Microsoft Outlook or other email program account settings.

*Note: Gmail requires that you go to your account settings on Gmail.com and enable the POP feature (Post Office Protocol). If your Gmail account does not have POP enabled, the camera will not be able to send email.*

### 3.5.3.2 Email periodic sending

Instead of using motion detection in Email Alarm Sending, you can also use the "Email Periodic sending" menu to upload pictures at regular time intervals.

Period interval:	0 H 1 M 0 S (MAX: 24 hours)
Snapshot from:	Primary stream
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 fps
Image file name:	PP
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time <input type="radio"/> None
SMTP server name:	
SMTP server port:	25
Secure SSL connection:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	
Password:	
Re-type password:	
Sender mail address:	
Receiver mail address:	
Subject:	Warning from Network Camera
Message:	

[Periodic interval] Input the interval time.  
The default setting is the same as E-mail Alarm Sending.

Click **Apply** to confirm your setting.

### 3.5.3.3 FTP alarm sending

If you prefer, you can have the pictures uploaded to an FTP server instead of an email address. There are many choices for FTP servers.

For example, you could enable the built-in FTP server function on one of your computers or download free FTP server software such as FileZilla server.

Another possibility is to use an online account with FTP access, which is sometimes even available for free with a limited amount of storage. You can download free FTP client software to manage the FTP server, such as FileZilla client.

Yet another option for FTP server is to use a standalone NAS (Network Attached storage) hard drive such as the MyBook World Edition.

#### FTP Alarm Sending

Snapshot from:	Primary stream ▾
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 ▾ fps
Alarm interval:	0 seconds (0-86400 0:continuous)
Image file name:	PA
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time <input type="radio"/> None
FTP server name:	
FTP server port:	21
Remote path:	
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	
Password:	
Re-type password:	

[**Snapshot from**] Primary stream.

[**Snapshot duration**] Input the duration time.

[**Snapshot frame rate**] Select the number of frame per second.

[**Alarm interval**] Type the interval time.

[**FTP server name**] Input the FTP server name.

[**FTP server port**] As default 21.

[**Authentication**] Select Yes.

[**User name**] Type your FTP user name.

[**Password**] Type your FTP password.

[**Re-type password**] Re-type FTP password.

[**Passive mode**] Select on or off.

[**Keep alive**] Input the time.

[**Remote path**] Input the file directory.

Click **Apply** to confirm your setting.



### 3.5.3.4 FTP periodic sending

#### FTP Periodic Sending

Period interval:	0 H 1 M 0 S (MAX: 24 hours)
Snapshot from:	Primary stream ▼
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 fps
Image file name:	PP
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time <input type="radio"/> None
FTP server name:	
FTP server port:	21
Remote path:	
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	
Password:	
Re-type password:	

**[Periodic interval]** Input the interval time.

The default setting is the same as FTP Alarm Sending.

Click **Apply** to confirm your setting.

*Note: The menu option for "HTTP alarm sending" and "HTTP Periodic sending" are not explained here since HTTP servers are only used by network professionals.*

### 3.5.3.5 HTTP alarm sending

#### HTTP Alarm Sending

Alarm interval:  seconds (0-86400 0:continuous)

Sending URL:

HTTPS: ☐ Yes ☒ No

Authorization: ☐ Yes ☒ No

User name:

Password:

Re-type password:

[Alarm interval] Input the FTP server name.

[HTTP server name] Input the HTTP server name.

[HTTP server port] As default 80.

[Authentication] Select Yes.

[User name] Type your HTTP user name.

[Password] Type your HTTP password.

[Re-type password] Re-type your HTTP password.

[Sending URL] Input the URL, the camera will give an alarm to it.

Click **Apply** to confirm your setting.

### 3.5.3.6 HTTP periodic sending

#### HTTP Periodic Sending

Period interval:  H  M  S (MAX: 24 hours)

Sending URL:

HTTPS: ☐ Yes ☒ No

Authorization: ☐ Yes ☒ No

User name:

Password:

Re-type password:

**Apply**

Back

[Period interval] Input the interval time.  
The rest setting is the same as HTTP Alarm Sending.

Click **Apply** to confirm your setting.

### 3.5.3.7 Snapshot to storage on alarm

The following chapters will show even more possibilities to use motion detection. You can use motion detection to initiate the snapshots to Micro SD card or NAS (Snapshot to storage on Alarm) or at regular time intervals (Snapshot to Storage Periodically) to take snapshots and store them to MicroSD card or NAS.

All series cameras can now accept Micro SD cards. Capacities up to 128 GB are supported. The card is not included except in special bundle packages.

When the camera powers up with a Micro SD present in the slot, Enable "storage" and select store to "SD card", and then select "format the Micro SD".

#### Snapshot to Storage on Alarm

Snapshot from:	Primary stream ▾
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 ▾ fps
Alarm interval:	0 seconds (0-86400 0:continuous)
Image file name:	PA
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time

[Snapshot to storage on alarm] Select Primary stream.

[Snapshot duration] Select the time.

[Snapshot frame rate] Select the frame.

[Alarm interval] Input the interval time.

Click **Apply** to confirm your setting.

### 3.5.3.8 Snapshot to storage periodically

#### Snapshot to Storage Periodically

Period interval:	<input type="text" value="0"/> H <input type="text" value="1"/> M <input type="text" value="0"/> S (MAX: 24 hours)
Snapshot from:	<input type="text" value="Primary stream"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="text" value="1"/> fps
Image file name:	<input type="text" value="PP"/>
Suffix of file name:	<input type="radio"/> Sequence number <input checked="" type="radio"/> Date time

[Period interval] Input the interval time.

The rest setting is the same as Snapshot to storage on alarm.

Click **Apply** to confirm your setting.

### 3.5.3.9 Record to storage on alarm

#### Record to Storage on Alarm

Record from:	Primary stream ▼	
Post-recording time:	30	seconds (5-86400)
Split duration:	60	seconds (10-1200)
Record thumbnail:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Record file name:	MA	
Suffix of file name:	<input type="radio"/> Date time <input checked="" type="radio"/> Date time & record time length	

[Apply](#)[Back](#)

[**Record from**] Select the stream from which it should record.

[**Post-recording time**] The number of seconds that the camera should keep recording video after motion stops. If there is any motion within this time the camera will keep recording until there is no motion for the duration of this parameter. It can be from 5 seconds to 24 hours.

[**Split duration**] This specifies the maximum duration of one file. If the recording goes on for longer than this parameter the camera will split the video into a number of files.

[**Record thumbnail**] Enable or disable thumbnail.

[**Record file name**] Name of record file are saved to.

Click **Apply** to confirm your setting.

### 3.5.3.10 Record to storage continuously

#### Record to Storage Continuously

Record from:	Primary stream ▾
Split duration:	60 seconds (10-1200)
Record thumbnail:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Record file name:	MP
Suffix of file name:	<input type="radio"/> Date time <input checked="" type="radio"/> Date time & record time length

[Apply](#)[Back](#)

**[Record from]** Select the stream from which it should record.

**[Split duration]** This specifies the maximum duration of one file.

If the recording goes on for longer than this parameter the camera will split the video into a number of files.

**[Record thumbnail]** Enable or disable thumbnail.

**[Record file name]** Name of record file are saved to.

Click **Apply** to confirm your setting.

With the larger Micro SD cards it is practical to use the camera as a continuously recording DVR (Digital Video Recorder) with the right settings.

A 2 GB Micro SD card has about 1872 usable megabytes of storage space after formatting. At the very highest settings of video quality with the highest picture size, this is only about 2 hours' worth of storage.

However, if you setup the "secondary stream" in the camera's "stream setup" menu with 320 x 240 resolution, a frame rate of 10 fps, and bit rate of 120K, this will be reduced to about 12Megabytes per 10 minutes clip or 75 Megabytes per hour, which allows 24 hours of total recording time. Then with 32 GB Micro SD card this can be extended to approximately 16 days. Or you can increase video quality via increasing bit rate, which improves image sharpness and makes motion appear smoother.

### 3.5.3.11 Send files in Storage to FTP Server

Phylink cameras can transfer files automatically to a standalone NAS hard drive or any other FTP server, such as a computer with FTP software or an online server.

#### Send Files in Storage to FTP Server

FTP server name:	<input type="text"/>
FTP server port:	<input type="text" value="21"/>
Remote path:	<input type="text"/>
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="password"/>
Re-type password:	<input type="password"/>

**[FTP server name]** Type the name or IP address of the FTP server.

**[FTP server port]** The port number of the FTP server (default is 21).

**[Authentication]** Select Yes.

**[User name]** Type the FTP user name.

**[Password]** Input the FTP password.

**[Re-type password]** Re-input the FTP password.

**[Passive mode]** Switch passive mode on or off. This is required on some FTP servers (Depends on your FTP server settings).

**[Remote path]** Input the file directory.

Click **Apply** to confirm your setting.



## 3.6 Tools

### ▼ Tools

System Identity

User Management

Date & Time

Backup or Reset

Automatic Reboot Setup

Firmware Upgrade

### 3.6.1 System Identity

System Identity Setup

System Name:

System Contact:

System Location:

**[System Name]** Type a name to easily identify the camera.

**[System Contact]** Type the contact name of the administrator of the camera.

**[System Location]** Type the location of the camera.

Camera Live

	Model	Name	Location	IP	Port	MAC	P2P UID
1	PLC-325PW	Network Camera	Default Location	192.168.168.39	80	0:e0:4b:c2:8f:64	T5M5TN7U67A...
2	PLC-335PW	Network Camera	Default Location	192.168.168.56	80	0:e0:4b:c2:6e:22	SR6MJ87HJKF...
3	PLC-233PW	Network Camera	Default Location	192.168.168.77	80	0:e0:4b:b9:11:68	EVFG78KHUW...
4	PLC-223PW	Network Camera	Default Location	192.168.168.75	80	0:e0:4b:c6:23:c4	VDF45G8IPK3...

The information you fill in can be displayed on the camera. It can help to distinguish different Cameras in the network .

## 3.6.2 User Management

### User Management

No.	User name	Group
1	<a href="#">Admin</a>	Administrators

Add

Add up to 64 users (including the admin) can created.

#### Note:

1. A maximum of 16 users are allowed to access the camera simultaneously.
2. As the number of simultaneously users increase, the overall performance will decrease. This is dependant on the Network bandwidth.

#### Adding users

1. Click Add on the Camera User List page.
2. Enter the User name, Password and re-confirm the password then click Add.

#### Add User

User name:	<input type="text" value="Admin"/>
Password:	<input type="password" value="••••"/>
Re-type password:	<input type="password" value="••••"/>
	<input type="button" value="Add"/> <input type="button" value="Back"/>

To edit a user's password, click on the user name then enter the new password for that user twice and click Save. To delete a user, click on the user name then click **Delete**.

### 3.6.3 Date & Time

#### Date & Time Setup

Current device time: 27/04/2014 21:13:36

Proposed device time: 27/04/2014 21:13:41

Select to change the time zone for the device location:  
(UTC-12:00) International Date Line West

☐ Automatically adjust clock for Daylight Saving Time

Date and time format: ☐ yy/mm/dd hh:mm:ss  
☐ mm/dd/yy hh:mm:ss  
☒ dd/mm/yy hh:mm:ss

Auto time setting (SNTP) ☒ Enable ☐ Disable

Time server: time.nist.gov  
e.g. time.nist.gov;ns.arc.nasa.gov

Apply

**[Current device time]** Internal time for camera.

**[Proposed device time]** PC system time. On clicking Apply the internal time of the camera will be changed to this time.

**[Select to change the time zone for the device location]** choose proper time zone.

**[Daylight saving time]** Daylight Saving Time (or summertime as it is called in many countries) is a way of getting more light out of the day by advancing clocks by one hour during the summer.

**[Date and time format]** Select date and time format.

**[Auto time setting(SNTP)]** Enable or disable this function.

**[Time server]** Type one SNTP server name in the box.  
Click Apply to confirm your settings.

## 3.6.4 Backup or Reset

### Backup or Reset Settings

Click Reset to erase the camera's configuration and restore the factory defaults.

Reset

Click Backup to save the camera's configuration to a file.

Backup

Restore the camera's configuration from a previously backed-up file.

Restore

Browse...

**[Reset]** Click Reset to initialize the camera to default factory setting. All users and settings will be lost, requiring you to reconfigure the camera.

**[Backup]** Click Backup to backup the current configuration of the camera for future reference.

**[Browse...]** Click Browse... to search for a backup configuration you wish to upload to the camera, then click Restore.

Note:

Do not turn off the power during the Reset, Backup or Restore functions since this might corrupt the camera's firmware. The camera can also be reset to the default settings by pressing the reset switch on the side of the camera.

## 3.6.5 Firmware Upgrade

### ■ Step 1

Read these information carefully and click Continue.

#### Firmware Upgrade

##### Warning:

Upgrading the firmware may erase or change your current settings, please ensure you have made a backup of your settings under the Backup and Reset menu.

Current firmware version is: 5.68 (build 20140416)

Click continue to proceed.

Continue

Back

## ■ Step 2

Select Browse... and locate the file you have uncompressed from the ZIP file. Once you have located the file and selected it, click Upgrade.

When you click upgrade, the process will start. This can take 5-10 minutes. Don't perform any other actions on your computer while you are doing this upgrade.

Firmware Upgrade

Upgrade Firmware (path and file name)

Browse...

Upgrade

## ■ Step 3

After the upgrade completes, you will be prompted to reboot the camera, and after this your latest firmware will be recorded. If the update hasn't worked after 15-20 minutes, reset the camera via the side button on the camera.

### **IMPORTANT!**

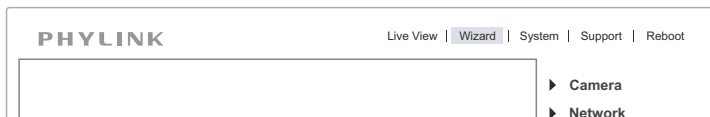
Do not unplug or power off the camera while the upgrade is in progress!

## 3.7 Advanced functions

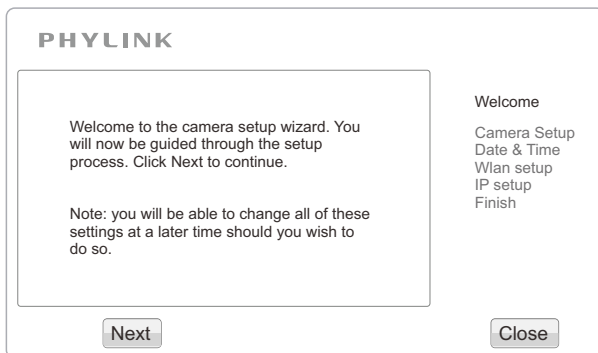
### 3.7.1 Wizard

To make the setup process slightly quicker for users, we have created a Setup Wizard which takes you through common options to getting your camera setup wirelessly and with your custom settings.

Click on **Wizard** at the top of the window to launch the wizard. The Wizard will launch in a new window.

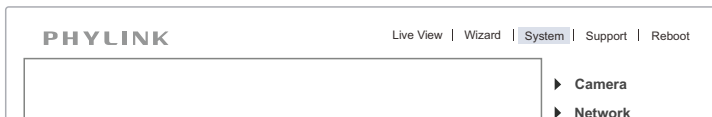


Follow the simple instructions on the screen and enter the required details, clicking next to proceed through each step.



## 3.7.2 System

Click **System** to see the system information about your camera.



This screen is one of the most useful in the settings. This screen lists information you may need if you want connect to your camera from other systems. It's a great way to check if your camera has all the details needed to operate correctly.

### System Information

System	
Model:	PLC-233W
System up time:	16 Days 20:55:29
BIOS/Loader version:	2.1 (build 0002)
Firmware version:	5.80 (build 20141031)
ActiveX Control version:	1,2,6,1
MAC address:	7c:dd:90:70:26:c0 (7CDD907026C0)

**[Firmware Version]** Your current firmware version. Check the [phylink.com](http://phylink.com) website to see if there are updates for your model.

Wireless	
Status:	Connected
SSID:	Netgear_D01F22
Signal:	
Mode:	infrastructure
Channel:	channel 11
Security mode:	WPA2-PSK
IP mode:	Dynamic
IP address:	192.168.1.100
Subnet mask:	255.255.255.0

**[Wireless]** The current status and strength of your wireless connection if in use.

**[IP address]** The internal IP address of your camera so you can access it on your local network.

DNS Server	
Primary DNS IP address:	192.168.1.1
DDNS	
Status:	Success
Host name:	phycam.noip.me
External IP address:	183.17.94.97
UPNP port forwarding	
Status:	Success
Gateway external IP address:	183.17.94.97
Gateway external Port:	8150
Internet URL:	http://phycam.noip.me:8150

**[DNS Servers]** If this option is empty, it may prevent your camera from sending email alerts. Enter the DNS in the TCP/IP menu if needed.

**[DNSS]** If you do not have a static IP address, a DDNS service helps you access your camera easily from outside your network. This confirms the DDNS is active or not.

**[UPNP]** If your router has UPNP and it has successfully worked with your camera, this will tell you here. This saves you forwarding any ports.

**[Internet URL]** This is the external address and Port of the camera.

Storage	
Status:	Not ready
Store to:	SD card

**[Storage]** Lets you know if storage is available on SD card or NAS drive.



## 4.0 Troubleshooting

### ■ Status indicator LED of camera does not light up

The power supply might be faulty. Confirm that you are using the provided DC 5V power supply for this network camera. Verify that the power supply is correctly connected. If the camera is functioning normally, the LED may have been disabled. See the **Camera Setup** about how to enable the LED.

### ■ The picture viewing interface does not appear on internet explorer

1. Check that your internet explorer settings allow you to download and install ActiveX controls.
2. Network traffic may prevent the viewing interface from appearing quickly. Wait for a while.

### ■ The camera's network connection unreliable

There might be a problem with the network cable. To confirm that the cables are working, PING the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms).

Another possible problem may be that the network device such as a hub or switch utilized by the Network Camera is not functioning properly. Please confirm the power for the devices are well connected and functioning properly.

### ■ Wireless communication does not work

1. Signal strength is weak. Relocate the camera or remove the obstacle around it.
2. Make sure the SSID and Encryption settings are identical.
3. Check for any interference from other equipment.
4. For more information about wireless please refer to **Wireless Installation Considerations**.

### ■ Video window shows "on connecting..."

The app may take up to 30secs to connect to your camera as the initial connection depends on a variety of factors including (but not limited to) your local or remote network speed, mobile provider, etc. If the status remains on "connecting..." for more than a minute try closing the app and trying again.

**▪ Forget the IP address of network camera**

1. Use Phylink Camera Live.
2. Use Phycam App.
3. Reset your Network to default IP address.  
Note that all settings will be restored to factory default.

**▪ Forget the password to access the setting interface**

Initialize the network camera by pressing the **RESET** button. Note that all configuration settings will be lost.

**▪ Why we see strips in the videos**

Because of the electricity. Some country like USA is 60Hz, yet Europe is 50Hz. For example: In USA, the camera should choose 60Hz, otherwise we will see strips in the videos.

**▪ The camera is producing noisy images**

The camera is producing noisy images. How can I solve the problem?  
The video images might be noisy if the Network Camera is used in a very low light environment.

## 5.0 Technical Specifications

### Product Code- PLC-223W / PLC-233W

#### Camera

**Aperture**-F2.0

White Balance, Exposure, Gain-Auto

**Min.illumination**-0 Lux

**Infrared LED**-12

**Night Vision Distance**-8m

**Image compression**-H.264,MPEG-4,MJPEG

**Audio output**-2-Way Audio

**Audio compression**-AAC

Built-in microphone-Yes

**SD slot**-microSD card (Up to 64Gb)

Item	PLC-223W	PLC-233W
Image device	CMOS 1/4"1Mega Pixel	CMOS 1/2.7"2Mega Pixel
Max. frame rate	30fps@1080x720P	18fps@1920x1080P
Viewing angle	Horizontal:60°,Vertical:45.0°	Horizontal:90°,Vertical:50°
Focal length	3.6 mm	3.8 mm

#### Wireless LAN

**Wireless technology**-IEEE802.11b/g/n

**Frequency**-2.412-2.462GHz

**Transmission speed**-Auto Switch up to 150Mbps

**Security**-WEP (64/128 bit)、WPA-PSK(AES/TKIP)、  
WPA2-PSK(AES/TKIP)

#### General

**Power requirements**-DC 12V

**Power consumption**-3.75W

**Operating temperature**-5 to +60 °C (-4 to +140 °F)

**Storage temperature**-20 to +60 °C (-4 to +140 °F)

**Operating humidity**-20 ~ 90%RH(Non-condensing)

**Storage humidity**-20 ~ 95%RH(Non-condensing)

**Dimensions** - Φ57X125mm

**Weight**-85g(Main Body)

## 6.0 Glossary of Terms

1. Network Camera: A stand-alone device which allows users to view live, full motion video from anywhere on a computer network, even over the Internet, using a standard web browser.
2. JPEG: A standard image format, used widely for photographs, also known as JPG.
3. IEEE 802.11b/g/n: The specifications developed by the IEEE for wireless network technology. It provides 11 Mbps transmission in the 2.4GHz band usage.
4. WEP: Wireless Equivalent Privacy. A security protocol for wireless network defined in the IEEE 802.11b/g/n standard. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.
5. Adhoc Mode: A wireless network system in which devices communicate directly with each other, without the use of a wireless router.
6. Infrastructure Mode: One of the wireless network system in which devices communicate with each other by first going through the wireless router.
7. IP Address: The unique 32 bit number assigned to each computer connected to the Internet. IP numbers are used by the TCP/IP protocol to route packets of data to their destinations.
8. TCP/IP: The collection of "protocols" underlying the functioning of the Internet. Each computer connected to the Internet is identified by a unique IP Address.
9. SMTP: Simple Mail Transfer Protocol.
10. FTP: File Transfer Protocol. Network cameras equipped with an embedded operating system, such as Linux, can use FTP to send images to a website.
11. DHCP: Dynamic Host Configuration Protocol is a set of rules used by communications devices such as a computer, router or network adapter to allow the device to request and obtain an IP address from a server which has a list of addresses available for assignment.
12. UPnP: Universal Plug and Play is an architecture for pervasive peer-to-peer network connectivity of intelligent appliances and wireless devices.
13. DDNS: DDNS is a method of keeping a domain name linked to a dynamic IP address with your Network Camera. You can set up your DDNS service and the device will automatically update your DDNS server each time it alter a different IP address.

14. Time server: A time server consists of a computer networking device that reads the actual time from a reference clock and distributes this information to its clients using a computer network.
15. WPA: Wi-Fi Protected Access (WPA and WPA2) is a class of systems to secure wireless (Wi-Fi) computer networks. WPA implements the majority of the IEEE 802.11i standard, and was intended as an intermediate measure to take the place of WEP while 802.11i was prepared.

## 7.0 Technical Support

If you have purchased this product from an authorized retailer worldwide, you are eligible for priority email based technical support.

We are always glad to help, however we ask that you read this short manual first. If you still have questions send us an email.

For Technical questions, please email: [support@phylink.com](mailto:support@phylink.com)

Phylink's website contains the latest user documentation and software updates for Phylink's products. Visit [www.phylink.com](http://www.phylink.com) for more details.

**Phylink Solutions LLC**

One Commerce Center-1201  
Orange St. #600  
Wilmington  
Delaware  
19899  
United States

For more information or support, visit:

**<http://www.phylink.com>**

Or contact

**[support@phylink.com](mailto:support@phylink.com)**

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