GPHYLINK

User Manual - English

This manual applies to the following Phylink products.

Phylink Bullet Outdoor Network Camera PLC-325PW / PLC-335PW

Please read this manual carefully before attempting to install or operate this product. This User Manual is a work-in-progress and is constantly being updated. You are invited to check the website regularly for updated versions.

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1.0 Introduction

Thank you for purchasing a Phylink network video camera

The Phylink Bullet Network Camera can be accessed remotely and also controlled from any PC/laptop over an Intranet/Internet via a web browser. The user friendly installation procedure and intuitive web-based interface allow easy integration with your home or business network or Wi-Fi. The camera also comes with motion detection software which can generate alarm triggers via e-mail and upload images straightly to a website. From our experience, we find that our customers get comfortable with these advanced features quickly and then start using the camera on a daily basis to keep in touch with their home or loved ones.

You can view very high quality live streaming video directly from the camera by using a Mac or PC. It works excellently as a baby monitor, nanny cam, pet cam, party cam, security & surveillance, remote observation, elder and patient care as well as limited video conferencing or event broadcasting.

An exciting new feature is the ability to turn your iPhone, iPad iOS device and Android OS smartphone, Tablet into a baby monitor without any professional installer, Extra wires, IP address setting, DDNS address setting or router setting. It is simply just plug and play.

Product Assurance

This 2.4GHz wireless camera meets wireless frequency security standards and recommended indexes during operation. These standards and indexes are certificated by the academic organization as illustrated in the following paragraphs.

1.1 Main Features

Easy Installation

The camera comes with built-in Wireless (IEEE802.11b/g/n) capability and a Web Server, therefore there is no need to install a driver. The setup includes the Camera Setup software, User Manual and Quick Installation Guide. With industry standard automatic configuration -UPnP (Universal Plug and Play), your PC will discover and connect to your camera automatically. Once successfully connected, you can see what the camera sees from anywhere in the world using a simple web browser. The camera can either be wall-mounted or ceiling-mounted using the supplied stand, thus providing a flexible installation solution.

802.11b/g/n Wireless LAN Connection Available

The camera is designed to not only work with your existing wired network but also with standard 802.11b/g/n wireless devices, allowing the flexibility to operate the camera wirelessly. The camera utilizes SSID filtering, powerful 64/128 bit WEP and new security standard WPA encryption to protect you from illegal intrusion.

Simultaneous High-Speed MPEG-4 and Motion JPEG

The camera allows live MPEG-4 and Motion JPEG streams simultaneously. The camera features H.264/MPEG4 compression which compresses the video to make transmission faster and more efficient. The H.264/MPEG4 and MJPEG image can be transmitted at 30 frames per second.

Simultaneous HTTP and RTSP streaming

The camera supports HTTP and RTSP/RTP/RTCP protocol as well as provides multiple HTTP and RTSP streams simultaneously.

Audio Transmission

The camera comes with a built-in microphone for audio monitoring as well as video monitoring. Sound captured by the camera can be transmitted to the client's PC.

Snapshot and Recording

You can capture a still image of the camera view on your PC and save the image as JPG or BMP format file. You also can record the video and audio captured by the camera on your PC and save as an ASF format file.

Motion Detection Function

The camera can detect changes in the image being monitored. Once a change occurs, it will send an email to up to 3 e-mail addresses with a snapshot attached. The video file or snapshot can also be uploaded to an FTP server. In addition the camera can be configured to send images at regular intervals.

OSD Function

OSD (On Screen Display) function can display system name, date and time and user-defined on screen.

Authentication

An authentication window requires you to enter the user ID and password. Password security can prevent unregistered users from accessing your camera. Users can select Basic Authentication method or Digest Access Authentication method.

Multi-Client Access

The camera allows up to 16 users to view the video simultaneously. Please note that it is possible that as the number of simultaneously connected users to camera increases, the overall motion performance will decrease.

Infra-red Night Vision

The camera utilizes 24 infra-red LEDs to provide high light in dark environment. When the environment is dark, the infra-red LEDs will be turned on automatically with a photosensitive component, and the moving images will be changed to Black and White. Users can monitor objects clearly within 15 meters distance. Users also can choose to open or close the infra-red LED manually, and whether to change the images to black and white or color automatically.

1.2 Approval Information

All our products meet the requirements for approval by FCC and CE, and are authorized to bear the FCC and CE mark.

FCC Statement

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 radiates 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 Statement

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.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

1.3 Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose.

2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment.

3. This product should be placed at least one foot away from any heart pacemaker. Radio waves might potentially influence a heart pacemaker.

4. DO NOT use this product for any illegal activities. User's are responsible for ensuring that the usage of this camera does not violate any legality concerns.

5. Do NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

6. Do NOT expose this apparatus to rain or moisture in order to reduce the risk of fire or electric shock. The apparatus shall not be exposed to dripping or splashing. Also, objects filled with liquids, such as vases, shall not be placed on the apparatus.



The Power Adaptor supplied is not interchangeable. It should not be used with other product, and may cause product failure for other products.

1.4 Maintenance

1. Ensure that the camera and its power source have sufficient ventilation.

- 2. Do not shake, strike or drop the product.
- 3. Keep the camera dry and dustless and avoid exposing it to direct sunlight.
- 4. Do not place the product near any magnetic objects.
- 5. Avoid putting the product in places where there is constant change in temperature and humidity
- 6. Keep the product away from heat sources.
- 7. Do not use the camera near aggressive chemicals.
- 8. Do not use this camera near water (unless the camera is specified as waterproof).

9. Do not use the camera in the places which are enclosed by metal. The surrounding metal may shield the electromagnetic waves, and result in failure of signal reception.

10. Please follow your local government environment protection policies.

11. Please turn off the power when left unused.

12. Do not disassemble or attempt to repair the camera; doing so might cause damage to the product and will invalidate warranty.

Notice

This product may cause interference with other wireless equipment that operate at 2.4GHz ISM band. In the event of interference please turn off one of the devices or move it to a safe distance.

1.5 Minimum System Requirements

A PC or Mac is required for the initial setup of camera only and once the camera is configured, it can be used independently without being connected to a computer.

Network requirements:

- Network Connection: 10/100 Mbps Ethernet
- Wireless router (if wireless connectivity required)
- Broadband Connection: Minimum 128kb/s upload speed (if internet access to your camera is required)

PC Requirements:

- Processor: Intel Pentium III, 800MHz or Higher (Pentium IV, 2GHz or higher recommended)
- Memory (RAM): 128Mb (256Mb or higher recommended).
- Operating System: Windows 2000, XP, Vista, Windows 7
- Web Browser: Internet Explorer Version 5.5 or above, Mozilla Firefox, Google Chrome.
- Plug-ins: Adobe flash (for non-IE browsers)

Mac Requirements:

- Processor: 800MHz PowerPC G4 or Intel.
- Memory (RAM): 128Mb (256Mb or higher recommended).
- Operating System: Mac OSX 10.4 Tiger.
- Web Browser: Safari, Mozilla Firefox, Google Chrome and most other browsers
- Plug-ins: Adobe flash

Web Browser Compatibility:

You can access the camera via various web browser. Phylink cameras work on most web browsers such as Firefox, Internet Explorer, Microsoft Edge (Windows 10), Chrome and Safari.

Tips:

Please note that browser itself does not support video decoding and playback, it needs to install plug-ins player. To play the live video of camera, the web browser needs to install the flash player plug-ins for Chrome and Safari or ActiveX Control for Internet Explorer.

If you are trying to view the camera for the first time using Internet Explorer, your browser may prompt you to install or allow an "ActiveX Control".

If you are trying to view the camera for the first time using Chrome or Firefox, your browser will prompt you to install or allow the "Adobe Flash Plug-in".

1.6 Read Before Use

1.6.1 Precaution

1. The use of surveillance devices may be prohibited by law in your country. The Network Camera is not only a highperformance web-ready camera but can also be part of a flexible surveillance system. It is the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

2. Do not disassemble or attempt to repair the camera; doing so might cause damage to the product and will invalidate warranty.

3. Do not install the product on unstable brackets, unstable or vibrating surfaces since this could cause damage to the product.

4. Please read the hardware installation instructions in this manual carefully before attempting to install or use the camera.

1.6.2 Change and protect your password

All Phylink camera secured with the top secure AES(Advanced Encryption Standard) encryption, 128 bit secret key (AES) are used for digital video encryption, ensuring that all data sent between the user and the camera is encrypted, which prevents someone from accessing the information while it is in transit.

The camera comes with a default login and password. Please setup the camera using those defaults. You can then login and change the admin login/password to something more secure once it has been installed. If you are installing the camera for the first time or after a reset to factory defaults, you are advised to change the cameras default password as per the message displayed. Changing the cameras default password is highly recommended to avoid unauthorized access to your camera.

Also please protect your camera's login password, just like your bank password or email password.

To learn how to change the login password, please go to "Login Password Modification" chapter in this manual.

2.0 Product Overview

2.1 Package Contents

It is important to verify first that all contents received are complete according to the Package Contents listed below. Take note of the warnings in the Quick Installation Guide before the Network Camera is installed; then carefully read and follow the instructions in the Installation chapter to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

- PLC-325PW/PLC-335PW Camera
- Camera Bracket
- External Wi-Fi Antenna
- Manual and Software on CD-ROM
- CAT5 Ethernet Cable for initial Setup
- Power Adapter
- Quick Install Guide
- Waterproof Junction box
- Screw and plastic wall plug for wall mount



Camera & Bracket



Waterproof Junction box



External Antenna



Setup CD & Guide



AC/DC Power adaptor

ł	

Ethernet Cable

2.2 Hardware Overview



Power connector

Connect to the included DC 12V power adapter.

Light Sensor

The light sensor monitors ambient lighting conditions and switches between color and infrared accordingly.

UID Sticker on Camera Cable

The UID is the unique identifier for the camera. You can scan the QR code on the sticker using the iOS or Android app to add a camera.



Infrared LEDs

Used to illuminate the camera's field of view at night.

Status Indicator LED

When the camera is powered up, the indicator LED shows a green light then quickly turns off which confirms the camera has started up correctly. When the indicator LED shows a green light again, it means the system has started successfully. The indicator LED flashes green during data transfer and shows red for the WPS connection status.

MicroSD Card Slot

Local storage for storing recorded images and videos. Adding a Micro SD to your camera will allow you to record footage and motion alerts directly to memory card for future review.

Wrench on Mount Bracket

You can use the wrench on the mount bracket to lock it. The design of wrench allows effective use, without need for tools.

Reset / WPS Button

This button is used for both the WPS and Reset function.

To use the Reset function, push and hold the button for more than five seconds. Note that all settings will be restored to factory default.

To use the WPS function, ensure the camera has started. (The status Indicator LED will show a constant green) Press the WPS button located on your router and then press the WPS button on the camera for one second within 60 seconds. While connecting, the Status Indicator LED will flash red. Please wait until the camera reboot, then the Wi-Fi connection will be established.

Tip: To learn how to set up the camera over Wi-Fi using WPS, please read "**Appendix G: Setting up the Camera over Wi-Fi using WPS**" towards the end of this manual.

3.0 Hardware Installation

3.1 Pre-requisites and Initial Connection

Besides the camera itself, and power adapter for the camera, you only need:

- An iOS or Android mobile phone. You can setup the camera easily without computer.
- PC, Mac, or Linux computer with internet browser. (This is optional) The computer is only required for initial setup. Later the camera can work by itself without any computer present at the camera location.
- 3. A wired or wireless router with an available Cat5 wired network jack. For wireless cameras, your router's wired network connection is only needed for initial setup.
- 4. For standalone recording without a computer, you need a MicroSD or MicroSDHC memory card.
- 5. Phylink outdoor cameras have the PoE feature. For powering the camera you can choose to use the included AC adapter or PoE injector/switch (Not included).

You can start using the camera on your own network immediately after powering the camera up and connecting the Cat5 cable to your router.

All cameras come with a Cat5e network cable for initial connection of the camera to one of the LAN jacks of your router. Should you wish to set up wireless operation, this initial wired connection is required to tell the camera what your wireless network name and password is.

IMPORTANT: Make sure the Cat5 network cable is plugged into your router, not the computer, even if your computer has a network jack. If you don't have a router you'd need to get one, as this is one of the few prerequisites.

3.2 Connecting the Camera



Connect the camera to your router 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.

Once connected and powered, the status indicator LED should illuminate a constant green.

NOTICE

Please note that for initial setup, you need to connect the camera directly to your router with a network cable. You cannot connect wirelessly to the camera without first setting it up via a network cable.

You can set up the wireless via the App or web browser quickly. Instructions for wireless setup are included later, inside this manual.

3.3 Connection Camera with PoE (Optional)

The PLC-325PW/PLC-335PW camera can be either connected with the included power adapter and network cable, or optionally with an Ethernet cable that is connected to an 802.3af compatible PoE Switch or PoE Injector. With a PoE setup, the Ethernet cable will transmit both power and data over a single cable eliminating the need for the power adapter. It is very suitable for the installation locations where there is no power outlet and Wi-Fi signal.



PoE injector connection diagram

If you need more than 10 ft length of the power cable on the AC adapter, you could skip the AC adapter and instead power the camera with PoE. That would allow you to use inexpensive Cat5e network cable to supply power from up to 300 ft away. Cat5e network cable with the required connectors is available at Home Depot in convenient rolls of 15 ft, 25 ft, 50 ft and 100 ft.

3.4 MicroSD card installation

The Micro SD card is not included in packages. Adding a Micro SD card to your camera will allow you to record footage and motion alerts directly to the MicroSD card for future review. The recorded files may be reviewed remotely on your phone / computer when using Phylink app / software.

For a new SD card which has never been used or formatted, you can use the camera's format tool to format it. To learn how to format the SD card, please refer to the related technical articles on the Phylink support website.

The camera only supports the FAT32 file system; other formats will not be recognized. It is recommended to format the Micro SD card via the format tools. You can download the format tools for FAT32 via the follows links: http://www.phylink.com/downloads/download_file/tools/guiformat.zip Or http://www.sdcard.org/downloads/index.html

NOTICE

The camera must be powered off before inserting the Micro SD card. The camera will only recognize the card if inserted before startup. Every time the card is re-inserted, you will need to turn the power off and then turn the power on again to recognize the SD card.

To insert the micro SD card, follow these steps:

- 1. Power off the camera as applicable.
- 2. Remove the Sunshade
- 3. Unscrew the Front Shell from the camera's main body, turning anti-clockwise. This must be done in clean and dry environment – before exposing internal electronics.
- 4. Hold the MicroSD card with the printed side facing upward and the golden pins facing toward the MicroSD slot. Press the MicroSD card into the slot until you hear a click. Be careful not to touch the lens.
- 5. Take care to avoid catching internal wires and tighten the front shell by hand only.



Tip:

To learn more about MicroSD card installation and formatting, please refer to "**How to setup recording to MicroSD** card" in **Support - Technical Articles** section from our technical support website.

3.5 Mount the Wi-Fi antenna

If using a Wi-Fi Network connection, the provided external antenna must be mounted to the RP-SMA connector at the rear of camera main body.

Remove the protective cap on the RP-SMA connector and screw on the Wi-Fi antenna in its place (clockwise), make sure it is finger tight.



Please keep the antenna vertical for better signal strength. Minimum signal strength of 3 bars is required for HD video transmission. Please ensure the required signal strength is available at the point of installation, prior to installing the camera.

3.6 Mount the weatherproof junction box

Before physical installation, please ensure wireless settings are completed and operational – to set wireless up, you need to connect the camera directly to your router with an Ethernet cable.

The included Weatherproof Junction Box provides a neat and waterproof termination of connections to the Phylink Bullet HD outdoor camera.

When connecting outdoors, the use of this junction box will ensure weather protection and prevent power and signal faults due to water ingress at the connections.

When you use this junction box, you only need to drill a small hole in the wall to run the extension cabling to an indoor power outlet and network.



A roughly 1/4 inch diameter hole will be required for either a network cable or the DC plug at the end of the power adapter cord to pass through.





Before physical installation, please ensure wireless settings are completed and operational – to set wireless up, you need to connect the camera directly to your router with an Ethernet cable.

If you plan to use Wi-Fi transmission, the Wi-Fi must be setup before the camera is disconnected from the Ethernet cable of the local network. Minimum signal strength of 3 bars is required for HD video transmission. Please ensure the required signal strength is available at the point of installation, prior to installing the camera.

Please note that the wireless signal travels easily through common building materials such as wood, glass, sheet rock, and vinyl siding, but does not go through metal.

STEP1

Connect the power cord and Ethernet cable to the camera. Please refer to Figure 2.

STEP2

Insert the RJ45 connector and DC plug connector into the rear cover of the Weatherproof Junction Box. Ensure the power and network cables align with their respective grooves at both sides of the sealing strip. Please refer to Figure 2.

STEP3

Attach the front cover; ensuring that the groove on the sealing strip presses tightly against the cable. The bigger groove is for network cable and the smaller one is for the power adapter cable (Please refer to Figure 2 and Figure 3). Please make sure there is no gap between the front and rear cover sealing strips, as this clean contact provides the waterproof seal.

STEP4

Secure the front and rear covers using the included screws and gaskets. Once secured, the rubber stoppers should be inserted so as to protect the screws from the weather and allow ease of maintenance in the future. Please refer to Figure 2.



NOTICE

If the camera is using a PoE connection, you don't need to connect the power adapter. You must use the attached stopper to block the power cable entry point so as to maintain the waterproofing seal. Please refer to Figure 3.

If the camera only uses the Wi-Fi connection, you don't need to connect the network cable. You must use the attached stopper on the sealing strip to block the network cable groove so as to maintain the waterproofing seal.



3.7 Positioning and Mounting

Before mounting, you should first become familiar with the camera indoors. Once installed. Cameras cannot be returned for a refund.

In a typical scenario the camera is mounted to a wall with the supplied adjustable mounting bracket.



The easiest way to mount the outdoor camera to the wall is to mount the bracket all by itself to the wall first, using the 3 included Philips screws and plastic wall plugs.

Then if you have the threaded mounting post facing forward and the wing nut slightly tightened, the camera can be rotated onto the mounting post without the cables getting in the way. Then you'd loosen the wing nut and position the slot in the ball joint upwards so that the camera can be directed to the desired viewing angle, and the wing nut and the white plastic disk can then be tightened to lock this position into place.

Alternatively you can replace one of the camera's Sunshade mounting screws with the special silver colored hex mounting nut that is supplied in the hardware bag. This allows attachment of the mounting bracket from above if you are planning to install the camera under an eave or to a ceiling.



All our cameras have the industry standard mounting hole with $\frac{3}{4}$ –20 thread. This is compatible with a wide variety of security camera mounts or tripods. If you want to use a mount other than the one we supply, please be careful that the new mount does not push the white reset button near the camera mounting hole at the bottom of the camera.

NOTICE

Do not try to remove the silver colored disks at the bottom of the camera. One is the microphone and the other is the reset button. Attempts to remove those could cause damage to the camera.

3.8 Installation and placement tips

3.8.1 Connected on Wi-Fi or using extender

Wi-Fi connection for our camera is most popular, but thick or insulated external walls can greatly reduce the signal. Always test if the camera can reach your network before installation. If the signal strength less than 3 out of 5 bar, you may need a Wi-Fi range extender.



Tip: The Wi-Fi range extender usually has 5 modes: Access Point, Repeater ,Bridge mode, Client and Router mode. In this scenario, you should set your range extender as Repeater mode.

3.8.2 Connected by network cable or PoE

Ethernet or Power over Ethernet (PoE) connections are the most reliable. PoE allows you to also power the camera from a PoE switch/router, so only 1 cable is required to reach the camera.



Tips:

- If using Wi-Fi, the provided external antenna must be mounted to the RP-SMA connector at the rear of camera.

- We recommend placing the camera no further than 10m/30ft away from your router; closer if there are obstacles in the way such as walls, floors or ceilings.

- Outside of this range, we would suggest using an Ethernet connection, Power over Ethernet, installing a Wi-Fi signal extender or repeater, or using HomePlug/Powerline technology.

- Phylink camera is only compatible with 2.4GHz network. If your router is using the 5GHz band, please ensure it is operating in a mixed mode.

3.9 Adjust the Sunshade (Optional)

The sunshade can be mounted in several positions depending on your needs. If it extends forward it can do a better job reducing glare from the sun as well as keeping the lens glass dry in light rain or snow. On the other hand, reflections of IR light from the underside of the sunshade would make the entire picture appear foggy. So, for maximum night vision range you should either move the sun shade all the way back or remove it entirely.

4.0 Software Installation

4.1 Installation for iOS device

STEP1

Get the free **PHYCAM** app from App Store.

Start the app and the "My Camera" screen will appear.

Ensure the camera is powered up and connected to your router with the Ethernet cable.



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Press "Add" button to add a new camera.

If the camera is located on the same local network as your iPhone/iPad, the camera's UID will show up on the "Add Camera" screen. Click on camera's UID and go to the next step.

OPTION 1 Scan the camera's UID

To add a camera to app, you can click "**QRCode**" button to scan the camera's UID from the sticker on the camera cable.

OPTION 2 Manually type the UID (Add the camera remotely)

If the camera is not located on the same local network as your iPhone, the app will NOT find it. To add a camera to the app remotely, click "**Add**" button to type the "UID" manually from the UID sticker on the camera cable.

STEP2

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

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

••••• ?	01:32	د ته 🛪 🔳 ۲	••••• ?	01:32	0.0
Cancel	Add Camera	Save	Cancel	Add Camera	Save
Name	Camera		Name	Camera	
UID	YGCDFFHJF3XUMF	6T111A	UID	YGCDFFHJF3XUMF6	5T111A
Account	admin		Account	admin	
Password	•••••	0	Password	••••	
	Connect Validate i	11		Connected	
				Setup WiFi	

Press "**Connect**" and the app will connect to the camera.

Press "Setup WiFi" to setup the camera to work over wireless. The camera will search for available Wi-Fi networks around it.

Note: You can skip the "Setup Wi-Fi" step and set the wireless later. The instructions for wireless setup on iOS device are included in **4.2 Setting up Wi-Fi via iOS device** section.

Press "Save" button and the camera will show up on the "My Camera" screen.

STEP3

Tap \leq symbol on the right side of the camera, the sliding menu will be displayed.

- 1. Add camera
- 2. View the app version
- 3. Sliding menu
- 4. Detect camera
- 5. Edit Camera, change settings and password
- 6. Audio mode
- 7. Video mode



4.2 Setting up Wi-Fi via iOS device

Tap \Im symbol on the right side of the camera, the sliding menu will be displayed.



Tap the **Edit Camera** icon *I* from the sliding menu.

And then go to Advanced Setting > WiFi Networks.

•••• ?	01:34	ະ ອ 💼	•••••	9:59	-7 10 💼
Back	Edit Camera		Back	Advanced Setting	
	YGCDFFHJF3XUMF6	6T111A	WiFi Netwo	orks	>
Name	Camera		Video Qual	ity	>
			Device Mis	c	>
Account	admin		Alarm Actio	ons	>
Password	••••		Cloud Arch	ive	>
Reconnec	t	Connected	Login Acco	unt	>
			About Devi	ce	>
Change P	assword	>			
Advanced	Setting	>			

Press "WiFi Networks", then the camera will search for available Wi-Fi networks around it.

••••• ?	01:33	√ v m)
Back	WiFi Networks	
TP-Link_2	45416 [94%]	
FAST_110	DA2E [83%]	
NETGEAR	78 [57%]	
GARMINK	[47%]	
HP-Print-	B5-Photosmart 7520	[52%]

Select your network from the list. Type your Wi-Fi password and press "OK" 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.

4.3 Installation for Android device

STEP1

Get the free **PHYCAM** app from Google Play. Start the app and the following screen will appear.



Press to add a new camera.

If your camera is located on the same local network as your Android device, the app can search for it. Click the "**Scan local network**" menu and the camera's UID will shows up on the "**Search camera from LAN**" screen. Click on camera's UID to go to the next step.



STEP2

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 0".)

ج Add Ca	🛱 🛜 📶 17% 🖬 10:42 AM amera
UID:	C3S998FY5G639HPGU7T1
Account:	admin
Password:	·
Name:	Camera 0
ОК	Back

Press "OK" button and a pop up tips window will say "Do you want to setup the camera to work over WiFi now?".

📥 Tips	
Do you want to s work over WiFi n	etup the camera to ow?
NO	YES

Press "YES" if you want to connect the camera to your router wirelessly.

Instructions for wireless setup on Android device are included in **4.4** Setting up Wi-Fi via Android device section. Press "NO" if you want to setup the wireless later.

There are two optional methods to add a camera on the Android device.



OPTION 1 Scan the camera UID using the mobile phone

You can click "Scan QR code" menu to scan the camera UID from the UID sticker on the camera cable.

OPTION 2 Manually type UID (Add the camera remotely)

If your camera is not located on the same local network as your Android device, the app will NOT find the camera. To add a camera to the app remotely, click the "**Type UID and password**" menu. Type the "UID" manually from the UID sticker on the camera cable.

STEP3

Tap symbol on the right side of the camera, the sliding menu will be displayed.

- 1. Add camera
- 2. View the app version and get support info
- 3. Sliding menu
- 4. Detect camera
- 5. Edit Camera, change settings and password
- 6. Motion detection enable and disable.
- 7. Audio mode
- 8. Video mode



- 1. Quit live video mode
- 2. View the recorded videos and photos
- 3. Start recording / Stop recording
- 4. Take a snapshot
- 5. Enable or disable speaking to the camera
- 6. Enable or disable receiving audio from camera



4.4 Setting up Wi-Fi via Android device

Tap < symbol on the right side of the camera, the sliding menu will be displayed.

G	🖄 🗊 📶 14% 🗖 2:(03 PM
[+]	My Camera	G
	Camera 0 UID: C3S998FY5G639HPGU7T1 ♂ Online	
E	口() () (大) 🖉	Ŵ

Tap the **Edit Camera** icon from the sliding menu. And then go to **Advanced Setting** > **Wi-Fi Setting**.

G Edit Ca	amera			
	CYGCDFFHJF3XUMF6T111A			
Name:	Camera 0			
Account:	admin		G Advanced Setting	
Password:			Wi-Fi Setting	>
Reconnect	Online	>	Video Quality	>
Change Passw	vord	>	Device Misc	>
Advanced Sett	ting	>		

Press "Wi-Fi Setting", then the camera will search for available Wi-Fi networks around it.

Set WiFi Passw	ord
TP-LINK_I	DB7301 [100%]
Password: password	12345
ОК	Cancel
	Password: password

Select your wireless network from the list. Type in your Wi-Fi password and then press "**OK**" to save the settings. After a successful wireless setup, remove the network cable and the camera should work through the wireless network after a short delay.

4.5 Camera Setup on PC/Mac

4.5.1 Camera Live software installation

Phylink Camera Live is software which allows you to find and view your camera from the Internet easily. It is also a tool that can search for your camera within your local network.

You can further configure or view your camera via the most popular web browsers such as FireFox, Internet Explorer, Microsoft Edge (Windows 10), Chrome and Safari.

Phylink Camera Live is provided on the included CD, or you can download it from our technical support website, for both the Windows and Mac OS.

http://phylink.com/downloads/index.htm#Software

For setup on Windows, insert the provided installation CD into computer's CD-ROM drive and the installation window will appear.

Click on the "Install Camera Live" button and follow the setup wizard to complete the software installation.



Tips:

If the Installation CD program does not start automatically open the CD-ROM drive and double click on "autorun". For Mac OS, please install the "Camera Live for Mac" from this Installation CD.

Or download it from the Downloads section on our technical support website.

http://phylink.com/downloads/index.htm#Software

4.5.2 Accessing the camera using Camera Live (P2P method)

Phylink provides two accessing methods for different users: peer to peer and TCP/HTTP. The easier method is to use the P2P option to access the camera.

When you access the camera using the Camera Live software on PC/Mac, the peer to peer connection will be established automatically. P2P connection does not require the camera to get a public IP address and port or any complicated settings such as IP address, port forwarding and DDNS. You only need to type the UID/Password and the video can be displayed.

STEP1

Start the Camera Live software and click the "+" icon to add a camera.



A pop-up window will appear as below.

dd Camera	Select Camera
UID	T7S5TH5K2BYRS5BW87Z1 (PLC-325PW)
User name	T5M5TN7U67A4VW87FJ2M (PLC-335PW)
Password	SDS515A6FW5BC7X1UYSU (PLC-233PW)
	EVUSJD78JDGHNVBWW76 (PLC-223PW)
Name	
OK Cancel	OK Cancel

Click "**Discover**" button and the program will automatically search for an available camera within your local network. Select the camera UID from the list and click **OK**.

NOTICE

If the camera is not located at the same local network as your computer, the Camera Live program will be unable to find the camera using the discovery function. In this case you can manually type the camera's UID from the sticker on the camera cable to add a camera remotely.

STEP2

Enter the **User name**: The default user name is admin. Enter the **Password**: The default password is admin. And then enter a name for your camera (call it whatever you want). Click **OK** when done.

dd Came	era	
UID	C3S998FY5G639HPGU7T1 Discover	
User name	admin	
Password	••••	
Name	Camera	
	OK Cancel	

STEP3

At the lower left corner of camera preview, there is a chain icon which is used to indicate camera's connection status.





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

This icon indicates that the camera is disconnected. If the chain icon stays red when attempting to connect, please check the UID and password that you typed. Both the default user name and password is admin, all are lowercase letters. Also check the camera's hardware connections according to the Hardware Installation chapter. Check your Internet connection.

After a few minutes the red chain icon will turn green, which indicates that the camera is online and connection is established. If your settings are all correct you should now be viewing the live video from the camera. Click on "play" button or double click on the camera preview for live viewing.



Tip: To learn more about Camera Live, please refer to "**How to Access the camera using Camera Live**" in Support - Technical Articles section from our technical support website.

4.5.3 Accessing the camera via Web Browser (TCP/HTTP method)

This chapter shows how to search for the camera at your local network and log in to the camera via browser on your computer. If you like to access the camera through the browser and have some background knowledge of the network, the Phylink camera can be accessed from most popular web browsers. This accessing method is base on IP/TCP/HTTP protocols.

Camera Live software is a tool that can find (search for) your camera's IP address on your local network. You can also further configure and view your camera via a web browser.

STEP1

Make sure that your computer is located on the same local network as your camera.

Start the Camera Live and click on 🧟 icon from the main toolbar.

Click the "Search" button, the program should automatically find the camera in your local network.

ame		ive Video	Album Se	etup			
1	Model PLC-223W	Name Phylink Cube	Location Default Location	IP 192.168.2.113	Port 80	MAC 7C:DD:90:8A:34	P2P UID 8CX3DTSLTTS
1							

Tip: Sometimes the program may take a few minutes to find your camera, so if your camera isn't displayed, wait a few moments before clicking "**Search**" button again.

STEP2

Select the camera from the camera list and it will be highlighted. Click the "**Browser**" button and that will open the camera's **Homepage** in your default browser.

NOTICE

If you need to configure the camera's IP address, select the camera from list and click the "**IP config**" button at the lower right corner of the window.

We don't recommend users to set the camera to a static IP. For most routers, DHCP is enabled by default to assign a local IP address to the network camera.

To learn how to setup the TCP/IP settings of the camera before you connect to it, please refer to "Appendix E: Manually entering TCP/IP Settings for a Camera " towards the end of this manual.


Click the "**Live Video**" button to view the live video. Click the "**Setting**" button to setup your camera with its various settings.

When prompted for authentication in browser, use the following information. User Name: admin (The default user name is "admin".) Password: admin (The default password is "admin")

Tips:

1. If the Camera Live software cannot search for the camera, please check the camera's hardware connections in the chapter of **Hardware Installation**.

2. Phylink Camera Live can only search for a camera within your local network. That means your computer and your camera need to be connected to the same network router at your home or office.

3. Please note that browser itself does not support video decoding and playback, it needs to install a plug-in player. To play the live video of camera, the web browser needs to install the flash player plug-ins for Chrome and Safari or ActiveX Control for Internet Explorer.

If you are trying to view the camera for the first time using Internet Explorer, your browser may prompt you to install or allow an "ActiveX Control".

If you are trying to view the camera for the first time using Chrome or Firefox, your browser will prompt you to install or allow the "Adobe Flash Plug-in".

4. To access the camera via the browser remotely, you have to know your camera's URL address. You can log in to the camera on the local network and go to **Setting** > **System**.

On the system information page you can find the Internet URL of the camera. You can type this URL into your browser and access the camera remotely.

5. To learn more about accessing the camera from a browser, please refer to "How to access camera from web browser" in Support - Technical Articles section from our technical support website.

4.5.4 Wireless Setup via Web Browser

The Phylink camera can work in either wired or wireless mode. After a successful wireless setup, unplug the Ethernet cable, the camera will work through the wireless network with the router. Please note that if you have already set up the wireless connection via the iOS or Android device, you can skip this step.

STEP1

After logging in to the camera via the browser, click "Setting" button on homepage to configure the camera. Browse to **Network** > **Wireless Setup** menu and the following screen will appear.

PHYLINK		Live View Wiz	ard	System Support Reboot
Wireless Setup			•	Camera
			•	Network
Wireless:	🖲 Enable 🔍 Disable			Wireless Setup
SSID:	wirelessnc	Search		TCP/IP Setup
Mode:	Infrastructure V			DDNS Setup
(Select Infrastructure	mode if using wireless router.)			UPNP Setup
Consulta and a	0" -			P2P Setup
Security mode:	Uff •		•	Storage
	Apply Test		•	Task
			•	Tools
Security mode:	Off Apply Test			Task

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

	SSID	Mode	Channel	Auth	Encrypt	Signal
۲	NETGEAR45	Infrastructure	9	WPA2PSK	AES	att
	NTGR_VMB_1439667116	Infrastructure	9	WPA2PSK	AES	att
\bigcirc	HP-Print-B5-Photosmart 7520	Infrastructure	1	WPA2PSK	AES	att
	Brewers	Infrastructure	6	WPA2PSK	AES	att
\bigcirc	NETGEAR13	Infrastructure	1	WPA2PSK	AES	att
	GPM-WAP	Infrastructure	6	WPA2PSK	AES	. III
	GARMINK	Infrastructure	7	WPA2PSK	AES	att
	Terrilynn	Infrastructure	11	OPEN	WEP	att
	belkin.e58	Infrastructure	1	WPA2PSK	AES	att
	belkin.e58.guests	Infrastructure	1	OPEN	NONE	att

OK Cancel

Select your Wi-Fi network from the list and click "**OK**". Check that your network name has now been filled into the SSID field.

SSID:	NETGEAR45	Search
Mode: (Select Infrastructure r	Infrastructure mode if using wireless router.)	
Security mode: Encryption type:	WPA2-PSK V AES V	
WPA key:		
Retype WPA key:		
	Apply Test	

STEP2

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

Tip: WPA Key is also known as the wireless key or password and they are case sensitive. Most likely your wireless network was set up with a password. If you don't remember it, you can check your router's wireless setup menu or ask the person who set up your wireless network.

PHYLINK		Live View Wiza	ard	System Support Reboot
* Wireless setup accepte Wireless Setup	d successfully!		•	Camera Network
Wireless:	🖲 Enable 🔍 Disable			Wireless Setup TCP/IP Setup
SSID:	NETGEAR45	Search		DDNS Setup
Mode:	Infrastructure ▼			UPNP Setup
(Select Infrastructur	e mode if using wireless router.)			P2P Setup
Security mode:	WPA2-PSK V		•	Storage
Encryption type:	AES V		•	Task
WPA key:	•••••		•	Tools
Retype WPA key:	•••••			
	Apply Test			

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

STEP3

Now you should click the "**Test**" button to check if all the information about the wireless was entered correctly. If the test reports "Wireless Test Successful" you can remove the network cable and the camera should work through wireless network after a short delay.

PI-IYLINK Live View Wiza	rd	System Support
Wireless Test Successful	۲	Camera
	•	Network
Wireless connected.		Wireless Setup
Back		TCP/IP Setup
		DDNS Setup
		UPNP Setup

Tips:

1. Please note that as long as the cable is still attached, the camera's System page will show "No wireless connection" since you are still using the wired network and only one network can be active.

After unplugging the Ethernet cable, system page shows "No Ethernet connection" since the camera is connected to router with wireless connection.

2. This camera can be setup through a WPS connection if your router supports this function. To connect to your camera to router through WPS, press the WPS button on your router and then press the WPS button on the camera. This will establish the connection. To learn how to set up the camera over Wi-Fi using WPS, please read "Appendix G: Setting up the Camera over Wi-Fi using WPS" towards the end of this manual.

5.0 Camera Settings

After the installation of hardware and software, you can log in to your camera and click the "Setting" button on Camera Homepage to access your camera's Settings page. You can further customize your camera with its various settings.



5.1 Login Password Modification

If you have changed the password via iOS or Android app, you can skip this step.

If you are installing the camera for the first time or after a reset to factory defaults, you are advised to change the cameras default password as per the message displayed. Changing the cameras default password is highly recommended to stop unauthorized access to your camera. To do this, please follow the instructions by clicking on the underlined link **"here"** to access administrator password editing page.

User name:	admin	
Password:	•••••	
Re-type password:	•••••	
Sav	e Delete Back	

The Administrator user name is always "admin" in lowercase. Type the password in both fields then click Save. Once you have typed your password twice, click Save. The system will then ask you to login again. You should then see the following screen:

modifie Manag	d successfully! ement	
No.	User name	Group
1	admin	Administrators

Add

NOTICE

1. Please note when changing the password please be sure to use alphanumeric characters only (letters and numbers, up to 12 characters max) – do not use any special characters or add any empty spaces.

2. Keep this password safe. The only way to recover from a lost password is to reset the camera back to its default settings, and this will wipe all other settings.

Tip: You can change the password under Tools > User Management menu later. Or you can change password via iOS or Android app quickly.

5.2 Top Menu of Camera Settings Page



5.2.1 Live View

Take you to the cameras live view so you can watch a video feed directly from the camera.

Please note that browser itself does not support video decoding and playback, it needs to install plug-ins player. To play the live video of camera, web browser needs to install the flash player plug-ins for Chrome and Safari or ActiveX Control for Internet Explorer.

If you are trying to view the camera for the first time using Internet Explorer, your browser may prompt you to install or allow an "ActiveX Control".

If you are trying to view the camera for the first time using Chrome or Firefox, your browser will prompt you to install or allow the "Adobe Flash Plug-in".

Tip: To learn more about accessing the camera via browser, please refer to "**How to access camera from web browser**" in Support - Technical Articles section from our technical support website.

5.2.2 Quick Setup with the Wizard

The wizard helps non technical users for easy set up of the camera.

Click on "Wizard" at the top right of Camera Settings page to launch the wizard.

The Wizard will launch in a new window. Follow the simple instructions on the screen and enter the required details, click next to proceed through each step.

PHYLINK	
Welcome to the camera setup wizard. You will now be guided through the setup process. Click Next to continue. Note: you will be able to change all of these settings at a later time should you wish to do so.	Welcome Camera Setup Date & Time Wlan setup IP setup Finish
Previous Next	Close

With this Wizard, you will be able to set:

- Name of Camera
- Quality of Picture you wish to view
- Time Zone
- System Time
- Wi-Fi Setup
- TCP/IP Setup

This should help you get your camera setup and work very quickly at a basic level.

5.2.3 System Page

Clicking on "System" at the top right of the Camera Settings Page will list the system information of your camera. This screen is one of the most useful in the Camera Settings. This screen lists information you may need if you want to 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. It also includes useful data when a problem occurs.

Firmware version – For your current firmware version, check the phylink.com website to see if there are updates for your model.

System	
Model:	PLC-223W
System up time:	0 Days 22:19:59
BIOS/Loader version:	2.1 (build 0002)
Firmware version:	6.01 (build 20160229)
ActiveX Control version:	1,2,6,1
MAC address:	7c:dd:90:8a:34:23 (7CDD908A3423)

Wireless - The current status and strength of your wireless connection if in use.

Tips: Please note that as long as the cable is still attached, the camera's System page will show " No wireless connection" since you are still using the wired network and only one network can be active.

After unplugging the Ethernet cable, system page shows "No Ethernet connection" since the camera is connected to router with wireless connection.

Wireless	
Status:	No connection
Ethernet	
Status:	Connected
IP mode:	Static
IP address:	192.168.2.113
Subnet mask:	255.255.255.0
Default gateway:	192.168.2.1
DNS Server	
Primary DNS IP address:	
Secondary DNS IP address:	
DDNS	
Status:	Disable
UPNP port forwarding	
Status:	Success
Gateway external IP address:	100.64.73.77
Gateway external port:	8150
Internet URL:	http://100.64.73.77:8150

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

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

DDNS – 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 – Let you know if storage is available on SD card or NAS drive.

Storage	
Status:	Ready
Store to:	SD card
Total:	63973 MBytes
Used:	63894 MBytes
Available:	79 MBytes

5.2.4 Reboot

Click "Reboot" to restart the camera. Rebooting the camera will retain all the settings and configurations. A reboot is normally necessary after inserting a microSD card into the camera or formatting the microSD card.

5.3 Camera

The Camera menu is located on the right side of the Settings screen. When you click on the "Camera" menu, a submenu of camera setup options will be displayed.

Live View Wizard System	Support Reboot
▼ Camera	a
Camera	Setup
Stream	Setup
Image S	etup
OSD Set	tup
Night Vi	sion Setup
Network	'k
Storage	e
▶ Task	
Tools	

5.3.1 Camera Setup



System:

[Enable privacy mode] Videos will not be seen.

[Power LED light] Turns the Status indicator LED on or off during normal operation.

Camera:

[Light Frequency] Two options: 50Hz & 60Hz. This should be set according to the mains frequency of the country the camera is being used in. For UK this would be 50Hz. For the USA this would be 60Hz.

[Enable image mirror] Displays a mirrored view of the video.

[Enable image flip vertical] Display video upside down – useful if you have installed the camera upside down. **Microphone:**

[Microphone] Enables or disables the built-in microphone.

[Volume] Adjusts the sensitivity of the microphone from 0~10 where 0 is the lowest.

Click "Apply" to confirm your settings.

Tip: For most users, many of these settings can be left as default.

5.3.2 Stream Setup

The camera supports three streams namely: primary stream, secondary stream and mobile stream. Click on Stream Setup under the Camera menu to 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). Default settings will normally suffice for most users.

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:	Enable Disable
Prerecord:	Disable 🔻
Secondary stream:	
Preset:	Please choose bandwidth status 🔻

Preset:	Please of	choose bandwidth status 🔻
Image size:	512x288	•
Frame rate:	10 ▼ fj	ps
H.264/MPEG4 bitrate:	256 🔻	kbps
MJPEG quality:	50	(20-100)
JPEG snapshot quality:	90	(20-100)
Audio:	AAC-LC	16kbps 🔻
Authentication:	Enal	ole 🔍 Disable
Prerecord:	Disable	T

You can configure settings for the primary with an optional for 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.

The Mobile stream is similar to the first two streams but is purely for mobile viewing and has a fixed resolution.

[Preset] There are five pre-programmed stream profiles for quick set-up. Please choose the one according to your bandwidth.

[Image size] Image resolutions available are as follows: 1920x1080 (Hd1080p), 1280x720 (Hd720p), 768x432, 512x288, 256x144. The mobile stream has a fixed image size of 176x144.

[Frame rate] Twelve options: 1/2/3/4/5/6/8/10/15/20/25/30 frames per second (fps). The frame rate is automatically determined by the camera and this depends on the network bandwidth available at the time. This frame rate setting imposes the maximum frame rate that the camera will transmit.

[H.264/MPEG4 bit rate] Select H.264/MPEG4 bit rate. These settings determine the image quality, however higher bitrates 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 bitrate.

[MJPEG Quality] This sets the quality of the video when viewing the camera using Motion JPEG (without audio). It can be from 20 to 100 where 100 is the best quality.

[JPEG snapshot Quality] The quality of the snapshot saved using Live View page (Internet Explorer only). It also affects the quality of the snapshot to be uploaded to an FTP Server. It can be from 20 to 100 where 100 is the best quality.

[Audio] Select or disable the audio bit rate.

[Authentication] Select or disable MPEG4 RTSP authentication.

[Prerecord] Pre-Record stream is a real-time media streaming data cached in memory chips, it will allow users to review the moments before the camera was triggered. Camera can be configured to buffer a 3-10 seconds pre-record stream, which can be record to microSD card or NAS drive. This feature allows users to review what occurs in those vital moments before the camera is triggered.

Primary stream:

Preset: Image size: Frame rate: H.264/MPEG4 bitrate: MJPEG quality: JPEG snapshot quality: Audio: Authentication: Prerecord:



A stream list page will be shown after clicking the stream name such as "Primary stream".

Primarv	Stream	List

	Intranet stream URL		
RTSP H.264 stream:	rtsp://192.168.1.129:80/live/0/h264.sdp		
RTSP MPEG4 stream:	rtsp://192.168.1.129:80/live/0/mpeg4.sdp		
RTSP MJPEG stream:	rtsp://192.168.1.129:80/live/0/mjpeg.sdp		
RTSP audio stream:	rtsp://192.168.1.129:80/live/0/audio.sdp		
HTTP M3U8 stream:	http://192.168.1.129:80/live/0/h264.m3u8		
HTTP MJPEG stream:	http://192.168.1.129:80/live/0/mjpeg.jpg		
HTTP snapshot image:	http://192.168.1.129:80/live/0/jpeg.jpg		
RTMP H.264 stream:	rtmp://192.168.1.129:80/live/0/h264.flv		
Internet stream URL			
RTSP H.264 stream:	rtsp://100.64.45.85:8150/live/0/h264.sdp		
RTSP MPEG4 stream:	rtsp://100.64.45.85:8150/live/0/mpeg4.sdp		
RTSP MJPEG stream:	rtsp://100.64.45.85:8150/live/0/mjpeg.sdp		
RTSP audio stream:	rtsp://100.64.45.85:8150/live/0/audio.sdp		
HTTP M3U8 stream:	http://100.64.45.85:8150/live/0/h264.m3u8		
HTTP MJPEG stream:	http://100.64.45.85:8150/live/0/mjpeg.jpg		
HTTP snapshot image:	http://100.64.45.85:8150/live/0/jpeg.jpg		
RTMP H.264 stream:	rtmp://100.64.45.85:8150/live/0/h264.flv		

Back

Tip:

Phylink camera offers RTSP and HTTP video and audio streaming. This allows for integration with other third-party software, which use the camera's stream in programs, such as Blue Iris, iSpy, Sighthound Video, Milestone XProtect Go and other leading software. For more details about using third-party software with the camera, please refer to related technical articles in **Support - Technical Articles** section from our technical support website.

5.3.3 Image Setup

You are able to change aspects of the image by changing the settings on this page, you can change the following, as showed below.

Brightness:	50	(0-100)
Contrast:	50	(0-100)
Hue:	50	(0-100)
Saturation:	50	(0-100)
Sharpness:	10	(0-100)
Auto Exposure Target:	60	(0-100)
		-

Apply

[Brightness] make the image brighter or darker by a specified amount. When increasing brightness, you may find that you lose some contrast on the brightest details in the image while the rest of the image has the same contrast as before.

[Contrast] Contrast is defined as the separation between the darkest and brightest areas of the image. Increase contrast and you increase the separation between dark and bright, making shadows darker and highlights brighter. Decrease contrast and you bring the shadows up and the highlights down to make them closer to one another. Adding contrast usually adds "pop" and makes an image look more vibrant while decreasing contrast can make an image look duller.

[Hue] Change is similar to rotating a color wheel to select a different mixture of colors

[Saturation] Saturation is similar to contrast, however instead of increasing the separation between shadows and highlights, we increase the separation between colors.

[Sharpness] Sharpness can be defined as edge contrast, that is, the contrast along edges in a photo. When we increase sharpness, we increase the contrast only along/near edges in the photo while leaving smooth areas of the image alone.

[Auto Exposure Target] Automatic exposure (abbreviation: AE) mode automatically calculates and adjusts exposure settings to match (as closely as possible) the subject's mid-tone to the mid-tone of the photograph. Exposure is a combination of the length of time and the illuminance at the photosensitive material. Exposure time is controlled in a camera by shutter speed and the illuminance by the lens aperture and the scene luminance. Slower shutter speeds (exposing the medium for a longer period of time), and greater lens apertures (admitting more light), and higher-luminance scenes produce greater exposures.

Click "Apply" to confirm your settings.

5.3.4 OSD Setup

This function can display system name, date and time, or user-defined text 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 the On Screen Display.

[Display date and time] Set the OSD to display the Date and Time of the camera. Please note that this function will simply display the date and time that has been programmed in the camera and therefore the time and date may be incorrect unless the camera is synchronized to a time and date server on the internet. This is accessible under the Tools menu and will be covered in more detail in the manual.

[Display system name] Set the OSD to display the System Name of the camera. The system name can be modified from the System Identity page, accessible under the Tools menu, and will be covered in more detail in the manual. **[Display the text below]** Set the OSD to display specific text. Use the text field to input the desired text.

Click "Apply" to confirm your settings.

5.3.5 Night Vision Setup

The camera uses infrared LEDs to provide high levels of light in dark environments. The intelligent photosensitive components (built-in Light Sensor) can automatically turn on the infrared LEDs in low light conditions or you can manually turn them on.

Infrared LED control:	۲	Auto	\bigcirc	On	\bigcirc	Off
Black and white mode:	۲	Auto	\bigcirc	On	\bigcirc	Off
Moonlight mode:	۲	Auto	\bigcirc	On	\bigcirc	Off
IR cut filter control:	۲	Auto	\bigcirc	On	\bigcirc	Off

Apply

[Infrared LED Control] The IR LEDs can be set to "On" or "Off". In addition, the "Auto" setting uses a light sensor on the front of the camera to check ambient light levels to turn on the IR LEDs only at night.

[Black and white mode] "Auto" switches the video from color to monochrome when the IR LEDs are turned on. The "On" button switches the video to monochrome irrelevant of the status of the IR LEDs. The "Off" button forces the camera to stay in color mode even when the IR LEDs are on.

Tip: If you force the camera to stay in color mode, the video will appear pink at night because the camera can "see" the Infrared lights.

[Moonlight Mode] Turns Moonlight mode on or off or set it to automatic. The "Moonlight mode" setting tries to boost available light by reducing the frame rate. This is also known as frame integration. In "Auto" the camera uses the front Light Level Sensor to detect the amount of light available to the camera. Should the light level below, the camera would automatically turn this feature on.

[IR cut filter control] IR is present naturally in day light, this can cause discolouration of images where the greens can look purplish. The IR cut filter blocks these IR lights from coming back onto the lens of camera, and this gives a true day image. However, if the IR cut filter is on during night, the night vision will not work.

It is recommended to leave the IR cut filter control to Auto at all times, to achieve best results from the camera.

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.

Tips:

1. The factory default settings is "Auto" and this is recommended.

2. If you are using the camera to look through a window, you may want to experiment with the IR filter in the automatic position even though IR LEDs are set off. Combined with automatic moonlight and automatic black & white mode this makes the best use of available street lighting.

3. For best IR night vision on outdoor cameras please refer to **Hardware Installation** - **Adjust the Sunshade** chapter. Clean lens cover glass also helps extend the range and reduces fogginess.

5.4 Network

The Network menu is located on the right side of the Settings screen. When you click on the "Network" menu, a submenu of network setup options will be displayed.

Live View Wiza	rd	System Support Reboot
	۲	Camera
	•	Network
		Wireless Setup
		TCP/IP Setup
		DDNS Setup
		UPNP Setup
		P2P Setup

5.4.1 Wireless Setup

The Phylink camera can work in the wired and wireless mode, if you have set the wireless up, unplug the Ethernet cable, the camera will work through the wireless network with the router.

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 Wiz	ard	System Support
Wireless Setup			•	Camera
Wireless:			•	Network
wireless.	🖲 Enable 🔍 Disable			Wireless Setup
SSID:	TP-LINK 4B8C68	Search		TCP/IP Setup
Mode:	Infrastructure V			DDNS Setup
(Select Infrastructure	mode if using wireless router.)			UPNP Setup
				P2P Setup
Security mode:	WPA2-PSK V		•	Storage
Encryption type:	AES V			Task
WPA key:				
Retype WPA key:	••••••			10015
	Apply Test			

[Wireless] Enable or Disable the Wi-Fi adaptor.

[SSID] Type the ID of the wireless network you want to connect to or an easier option is to click "Search" and all available Wireless Networks in range will be displayed. If your network isn't listed, move the camera closer to your wireless router or access point.

[Mode] Infrastructure mode or Adhoc mode:

Adhoc Mode: Select Adhoc mode when you want to connect the camera wirelessly directly to your computer. Infrastructure Mode: Select Infrastructure mode when the camera is connected via an access point or router.

[Security mode] Select the type of security mode that your wireless network is using. None (i.e. off), WEP64, WEP128, WPA-PSK or WPA2-PSK.

Whichever you are using, you will need to enter the settings to connect to your router. Each mode has default settings, which should suit most installations.

[Encryption type] Select either TKIP or AES for your default encryption setting.

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

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

Tip: To learn more about setting up wireless via browser, please refer to "**4.5.4** Wireless Setup via Web Browser" chapter in this manual.

5.4.2 TCP/IP Setup

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

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:
 80
 30000 -- 30200

Obtain an IP address automatically(DHCP)

If your network supports a DHCP server (e.g. router) select this option to have the IP address assigned automatically. If you select to 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. If setting the camera to a static IP you must also define the correct DNS servers.

Obtain an IP address automatically(DHCP)		
Use the following IP address		
IP address:	192.168.1.178	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.1.1	

[IP address] Type the IP address of your camera. You need to put the same numbers for the first 3 fields (for example 192.168.1) with your router's IP address but change the fourth field to another number. That means the camera must be same network segment with your router.

[Subnet mask] Type in 255.255.255.0 in the "Subnet Mask" .

[Default gateway] Type the default gateway (Type your router's IP address).

Tips:

For most routers, DHCP has default setting to assign an IP address to the network camera. It is not recommended for users to set the camera to a static IP. You may have trouble if you have no background knowledge of network technology.

If you want to setup the TCP/IP settings before you connect to the camera, please read "Appendix E: Manually entering TCP/IP Settings for a Camera" towards the end of this manual.

Obtain DNS Server address automatically

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

Use the following DNS server address

Use this option when a fixed DNS is required.

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

[RTP port range] Leave the default setting or enter the RTP port as below: The RTP port range should start at 30000 for your first camera. For all additional cameras the start of the range increase by 2, for example your 2nd camera would have a starting RTP port of 30002, the 3rd camera would have 30004, 4th camera at 30006 etc.

5.4.3 DDNS Setup

If you have a broadband connection that gives you a dynamic IP address (very common), you should set up a DDNS account so the camera will auto update with a web service every time your IP address changes.

This is also one of the easiest ways to view your camera online from anywhere in the world, so this is a highly recommended step.

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:	Enable Disable
Service provider:	dtdns.com 🔻 <u>Register</u>
Host name:	phycamera.ddns.net
User name:	phycamera
Password:	•••••
Re-type password:	•••••

Apply

[DDNS] Enable or disable DDNS connection. Click "Enable" for the rest of the options to appear. **[Service Provider]** Select a provider from the drop down list then click "Register". This will take you to the service

provider's website where you can register your own personal host name. Please follow the instructions on the provider's site, and then return to this page to enter the details.

[Host Name] Enter the host name you have registered (e.g. yourname.dtdns.net).

[User Name] Enter the user name for the account you registered with the service provider.

[Password] Enter the password for the account you registered with the service provider.

[Re-type password] Re-confirm the password.

Click "Apply" to confirm your settings.

Tips:

1. 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. A free account is more than adequate for an IP camera to use.

2. To learn more about setting up DDNS for camera, please refer to "**How to set up DDNS for camera**" in Support - Technical Articles section from our technical support website.

5.4.4 UPnP Setup

The camera supports UPnP which is enabled by default. This setup is a quick way to discover the camera on your network. Please make sure that the UPnP function is enabled in your router.

If you want to access the camera using browser from outside of the local area network, then you must set up UPNP (automatic port forwarding) or port forwarding manually on router in order to allow access to the camera from the Internet.

For most routers, UPnP is supported and default setting on. Router will assign it's public IP address get from Internet service provider and external port to the network camera automatically, so that the camera can be accessed via web browser from internet. We call this as automatic port forwarding, also named as "Universal Plug and Play" (UPnP).

UPNP:	Enable Disable
Gateway HTTP/RTSP port forwarding:	🖲 Enable 🔍 Disable
External HTTP/RTSP port range:	8150 8350
Gateway RTP port forwarding:	🖲 Enable 🔍 Disable
External RTP port range:	30000 30200

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 (this is enabled by default).

[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 on the Local Network, the first camera connected 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, Flash 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 settings.

Tips:

1. If your router does not support UPnP features, we provide instructions and support for port forwarding that those types of routers don't do automatically. You can also get help from the following website: http://setuprouter.com or http://portforward.com

2. To learn more about setting up port forwarding for camera, please refer to "Setting up port forwarding for IP camera" in Support - Technical Articles section from our technical support website.

5.4.5 P2P Setup

Enable and apply P2P to view cameras on PC/Mac, iPhone, iPad or Android Apps. P2P function is enabled by factory setting.

P2P:	🖲 Enable 🔍 Disable
UID:	C3S998FY5G639HPGU7T1
	Apply

P2P vs TCP/HTTP

Phylink provides flexible accessing methods for users. The easiest method is that use peer to peer method to access the camera. While you access the camera using PHYCAM app or Phylink Camera Live on PC/Mac, there will establishing automatically a peer to peer connection.

Through our P2P server, the camera can be accessed through the Internet without any complicated settings. You only need to type the UID/Password and the video can be displayed. It is a very simple and user friendly. No need to consider any complicated settings such as IP address, port forwarding and DDNS. P2P connection dose not require the camera to get a public IP address and port. It uses to UDP hole Punching technology to through the router directly.

Benefits of P2P based IP camera

P2P server helps devices to find the camera. After the connection built-up between device and camera , then device will directly talk to camera and get the camera's live video, no external server. Unlike other cloud cameras which use video forwarding mechanism, P2P camera is designed to be simple, safe and efficient. There is no any subscription. Without Cloud monitoring or computing, it can completely protect your privacy with encrypted video streaming.

5.5 Storage

The Storage menu is located on the right side of the Settings screen. When you click on the "Storage" menu, a submenu of options will be displayed.

Live View Wizard	Sy	stem Support Reboot
•	Ca	mera
•	Ne	twork
-	Ste	orage
	Sto	rage Setup
	Bro	wse Storage
	For	mat SD Card
•	Ta	sk
•	То	ols

5.5.1 Storage Setup

Storage:	🖲 Enable 🔍 Disable
Store to:	◎ NAS [●] SD card
Store directory:	IPCAMERA
Max Space:	Unlimited T
Max files:	5000 🔻

Phylink has inbuilt DVR software to record images and videos to its own Micro SD card (purchased separately) or NAS drive.

[Storage] Select Enable to enable storage option.

[Storage Select] Select whether you want to record on NAS or microSD card.

[Store directory] This is the folder that videos will be saved to.

[Max Space] Storage capacity the camera will use on the chosen storage.

[Max files] The maximum number of files for all the videos can be recorded before overwriting.

Apply

Click "Apply" to confirm your setting.

Tip:

To learn how to setup recording to MicroSD card, please refer to "**How to setup recording to MicroSD card**" in Support - Technical Articles section from our technical support website.

This page will cover how to setup your camera to record to a NAS drive.

Storage:	🖲 Enable 🔍 Disable
Store to:	● NAS ○ SD card
NAS remote path:	//192.168.1.108/ipcam_01
	(Example: //192.168.168.50/ipcam_files)
Authorization:	🖲 Yes 🔍 No
User name:	Roger
Password:	•••••
Re-type password:	
Store directory:	IPCAMERA
Max Space:	Unlimited v
Max files:	5000 •
	Apply
	Apply

[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. ///192.168.1.108/ipcam_01 as opposed to //192.../cam/abc.

[Authorization] Select Yes to enter the NAS username and password.

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

Click "Apply" to confirm your setting.

Tips:

1. The **"NAS remote path"** is where you specify the IP address of your NAS drive and also the folder you want the files saved in. You should put two forward slashes before the IP address – this is a networking command that gets the camera to access your network. Don't enter http:// or www in this box, just the two forward slashes and the IP address.

Follow this IP address with a directory name – the directory should be a **Shared Folder** which exists on your NAS and has been enabled the access permissions for users.

2. To learn how to setup camera with NAS, please refer to "Getting your camera recording to a NAS drive" in Support - Technical Articles section from our technical support website.

3. If you has a Synology NAS, please refer to "Setting up a camera with a Synology NAS" in Support - Technical Articles section from our technical support website.

5.5.2 Browse Storage

In the Browse Storage page, we can browse, download and delete the contents of the storage drive.

No.	Directory	Files
1	All	1591
2	Snapshot on Alarm	91
3	Snapshot at Interval	0
4	Record on Alarm	0
5	Continuous Record	1500

Refresh Delete All

[All] Enables you to view and delete all the files recorded.

[Snapshot on Alarm] Enables you to view and delete snapshots which were recorded upon motion detection.
 [Snapshot at Interval] Enables you to view and delete all the snapshots which were recorded on periodical basis.
 [Record on Alarm] Enables you to view and delete all the videos which were recorded upon motion detection.
 [Continuous Record] Enables you to view and delete all the videos recorded using the continuous record task.

The browse storage page shows a summary of all the files saved for a specific function. To access the files please click on the relevant link and this will display all the files.

ord	on Alarm		
	File name	Size (Bytes)	
	MA_2016-03-16_10-45-40_56.mov	29495062	download Play
	MA_2016-03-16_10-44-53_33.mov	17079616	download Play
	MA_2016-03-16_10-43-53_60.mov	31789105	download Play
	MA_2016-03-16_10-43-05_37.mov	19552694	download Play
	MA_2016-03-16_10-42-34_8.mov	4113553	download Play
	MA_2016-03-16_10-41-33_60.mov	31226000	download Play
	MA_2016-03-16_10-40-41_38.mov	20473049	download Play
	MA_2016-03-16_10-33-39_8.mov	4748160	download Play
	MA_2016-03-16_10-32-38_60.mov	31938537	download Play
	MA_2016-03-16_10-31-33_57.mov	30037513	download Play

Delete Back

Click "Download" to download the recorded files or click "Play" to playback the video using browser online. You can also delete the recorded files using "Delete" button.

Tips:

1. Please note that if you change the settings on task configuration page when the recording task is executing, the counter of recorded files will be cleared. The old recorded files will be retained in the SD card. But the number of recorded files on "All" will not be changed, it indicates the total number on SD card always.

2. You don't need to delete the files on the SD manually. With the factory settings, the camera will overwrite the oldest files when the SD card is full.

As long as one of the following conditions is met, the camera will overwrite the oldest recorded files on SD card. a. The total capacity of recorded files reach the specified "space Max", for example 32GB.

b. The total number of recorded files reach the specified "Max files", example 5000.

5.5.3 Format SD Card

For a new microSD card which has never been formatted, you should use the camera's formatting tool to format it before setting up SD card recording.

	Live View Wizard System Support Reboot
	Camera Network
	▼ Storage
Not ready	and the second
SD card	Storage Setup
	Browse Storage
	Format SD Card
ormat	> Task
	> Tools

Before the SD card is formatted, the Format SD card page will display status as "Not Ready". Click "Format" button to format the SD card and the process can take a few minutes depending on the size of the SD card.

Tips:

1. The camera only supports FAT32 format, if the microSD card is exFAT, NTFS or non-FAT32 format, you need to format it using a computer before you insert it to camera.

2. Before inserting the SD card, the camera should be powered off. A reboot may be necessary after you format the SD card.

3. To learn more about SD card formatting, please refer to "Formatting the microSD card" chapter in Technical Articles - How to setup recording to MicroSD card.

5.6 Task

The camera refers to motion detection as an "alarm". Once the camera is powered on, it is ready to record and alarm, send picture and e-mail, etc. The camera will do nothing until you activate its tasks.

There are various recording and alarm tasks which you can enable or disable on your camera under the Task Management menu. With the schedule feature, each task can be set to be active or inactive at certain times of the week.

5.6.1 Global On/Off

Under this menu, you can enable or disable the motion alarm and all the recording tasks. You can also set duration of a motion event to avoid false alarms.



[Minimum Length of Motion] The "Minimum Length of Motion" specifies a minimum length of time for a motion event. If the duration of a motion event is less than the "Minimum Length of Motion", the alarm won't be triggered. If you set the minimum length of motion as 10, it means the alarm is only triggered when there is continuous motion more than 10 seconds so as to avoid false alarms, for example if an insect flies by, the motion duration is less than 1 second, the alarm won't be triggered.

You can set the "length of Motion" to 0 to disable this features.

Click "Apply" to confirm your settings.

5.6.2 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. In general, motion detection works by comparing the current video frame with the averages of the previous video frames. Any difference is considered to be motion, and the sensitivity adjustment can be used to make the camera more aware or less aware of small amounts of motion.

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.

Please note that this "Motion Detection" menu is entirely optional and is generally not used unless you have very specific requirements to treat motion on some parts of the screen different from other parts.



[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 settings.

With the ActiveX or Flash plugin, you can see a moving blue indicator for motion: When there is motion, the blue level appears near the sensitivity and threshold adjustment sliders. More blue means more motion. To trigger an alarm (and hence send out emails or record 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.

Internet Explorer



FireFox, Microsoft Edge, Chrome and Safari



Tips:

1. The Phylink cameras have four motion detection windows which can configured easily on your browser. These four windows are all salable, and configurable for sensitivity.

To block out some frequently-moving objects which you don't care about, you can uncheck the window that contains these objects. You can also drag and resize the windows to avoid these objects is contained in the window.

2. 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. You can NOT adjust the threshold and sensitivity slider to the maximum or minimum. You should also avoid 4 windows to overlap each other, otherwise the settings will not be saved.

4. Please note that it does not make sense generally to define windows if the camera is not mounted securely. If it is just sitting on a desktop the slightest movement of the camera would invalidate your window positions.

5.6.3 Schedule Setup

The alarm that the motion detection triggers can be set to be active or inactive at certain times of the week. By default, the schedule of task is set to be "active" at all times "always".

However you can set the schedule not to trigger alarms at certain times (useful for instance if you don't want alarms to go off while your office is open from 9am until 5.30pm). You can set up to 4 schedules, and you can use these to send alarms to different places – such as emails, FTP or SD card.

Schedul	e ID:	1 🔻				
No.	Enable			Time		Days
1		0	: 0	- 24	: 0	S M T W T F S
2		0	: 0	- 24	: 0	S M T W T F S
3		0	: 0	- 24	: 0	S M T W T F S
4		0	: 0	- 24	: 0	S M T W T F S
5		0	: 0	- 24	: 0	S M T W T F S
6		0	: 0	- 24	: 0	S M T W T F S
7		0	: 0	- 24	: 0	S M T W T F S
8		0	: 0	- 24	: 0	S M T W T F S

Apply

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

[No.] Setup the specified times in every Schedule ID, you can save up to 8 specified times and use them for different purposes.

[Enable] Activates the alarm on specified times. Ticking this box to activate the alarm on the specified times. **[Start time]** Start time of the alarm.

[End time] End time of the alarm.

[Days] Ticking this box activate the alarm daily on the specified times from Monday to Sunday.

Click "Apply" to confirm your settings.

5.6.4 Task Management

Phylink camera integrates a Task Management system for alarm and recording. 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 a schedule sending alarms to different places, such as emails, FTP, SD card or NAS even dropbox. There are various tasks you can enable on your camera. This section will explain the various tasks and their functions.

PI-	IYLIN	ĸ		Live ¹	View Wiza	ard	System Support
Task	Manag	ement				*	Camera Network
	No.	Enable	Schedule	Task			Storage
	1		Always 🔻	Email alarm sending			-
	2		Always 🔻	Email periodic sending		•	Task
	3		Always 🔻	FTP alarm sending			Global On/Off
	4		Always 🔻	FTP periodic sending			Motion Detection
	5		Always 🔻	HTTP alarm sending			Schedule Setup
	6		Always 🔻	HTTP periodic sending			Task Management
	7		Always 🔻	Snapshot to storage on alarm			Tools
	8		Always 🔻	Snapshot to storage periodically			
	9		Always 🔻	Record to storage on alarm			
	10		Always 🔻	Record to storage continuously			
	11		Always 🔻	Send files in storage to FTP server			
	12		Always 🔻	Push notification			
				Apply			

Tip:

By default, the schedule of each task is set to be active at all times - "always". You can specify a schedule to perform these tasks. For example you can set the schedule not to trigger alarms while your office is open from 9am until 5.30pm.

5.6.4.1 E-mail alarm sending

The Phylink camera can be configured to send an email when the Motion Detection alarm is triggered. The "Email alarm sending" allows you to set up the details of your email server account and have the camera send you an email with an attached JPEG snapshot.

For automatic emailing you will need both an outgoing email server and one or more receiving email addresses. For the outgoing server we strongly recommend to sign up for a free Gmail account just for the camera.

You need to set the SMTP server, Authentication, SSL and port the on the camera. These details may be subject to change - please consult your email providers. If you don't have this information handy you may want to refer to your internet service provider's help pages.

Following is an example of a proper configuration for using Gmail as the outbound server, which then can send email to any receiving email address.

Snapshot from:	Primary stream 🔻
Snapshot duration:	1 seconds (1-20)
Snapshot frame rate:	1 ▼ fps
Alarm interval:	600 seconds (0-86400 0:continuous)
Image file name:	PA
Suffix of file name:	Sequence number Date time None
SMTP server name:	smtp.gmail.com
SMTP server port:	465
Secure SSL connection:	🖲 Yes 🔍 No
Authentication:	🖲 Yes 🔍 No
User name:	phycams@gmail.com
Password:	•••••
Re-type password:	•••••
Sender mail address:	phycams@gmail.com
Receiver mail address:	phycams@gmail.com
	support@phylink.com
Subject:	Warning from Network Camera
Message:	

Apply

[Snapshot from] Select snapshot stream source which can be "Primary stream" and "Secondary stream". For smaller pictures you can select from "Secondary stream".

Back

[Snapshot duration] The number of seconds that the camera should keep sending images after motion stops.
[Snapshot frame rate] The number of frames per seconds that the camera should keep sending images at when an alarm is triggered. If "Snapshot duration" had a value of 4 and "snapshot frame rate" had a value of 2, you would be getting 2 images each second for 4 seconds in a row, meaning 8 pictures total for each motion detection event.
[Alarm interval] This is the number of seconds for which the camera should stop sending e-mail alerts after the first set. Setting the time to 0 disables this feature. It allows you to designate a time (in seconds) during which new emails are suppressed. For example, to avoid a flood of emails and risk having your email account blocked for suspected spamming, you should set this time to 600 seconds to prevent additional emails for 10 minutes.

[Image file name] Specify the prefix of image file name.

[Suffix of file name] Specify the suffix of image file name.

[SMTP server name] Type the name or IP address of the SMTP server you want to use for sending the e-Mails. Please note that some networks do not allow e-mail relaying. Check with your system administrator or Internet service provider for more details.

[SMTP server port] The port number of the e-mail server.

[Secure SSL connection] Select whether your SMTP server requires an SSL connection.

[Authentication] Select whether authentication is required by the SMTP server.

[User name] & [Password] Type the user name and password of the e-mail account you wish to use. This field is required if your SMTP server requires authentication.

[Re-type password] Re-type the password.

[Sender e-mail address] Type the e-mail address of the account you are using to send the e-mail. This will be the address the emails come from.

[Receiver e-mail address] Type the recipients' e-mail addresses for who you want the emails to be sent to. Up to 3 addresses can be entered.

[Subject] This is the subject of the e-mail that is sent. Entering a relevant subject will help identify the alarm better. i.e. "Garage Alarm"

[Message] Type the text you wish to appear in the e-mail. E.g. this is to notify you that your alarm has been triggered.

Click "Apply" to confirm your settings.

Note that if you have a typo/mistake in any of this information, the camera would have no way to let you know about that. You just won't get emails. To summarize, Gmail requires the following in the camera's email server setup: **SMTP server name:** smtp.gmail.com

Port: 465 Authentication: Yes Secure SSL connection: Yes The User name must include @gmail.com

Notes: Email settings can be obtained from your e-mail service provider. An SMTP email account is required – these are very common if you use POP3 email and some IMAP servers. A true IMAP server will not work.

5.6.4.2 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	н	1	М	(30 minutes - 24 hours)
Snapshot from:	Primary	sti	ream	۲	
Snapshot duration:	1		second	ds	(1-3)
Image file name:	PP				
Suffix of file name:	Sequence number Date time Non				

[Period Interval] The time interval between snapshots. It allows you to designate a time (in seconds or minutes or hours) during which new emails are suppressed. For example, if you want to avoid a flood of emails, you could set this time to 60 minutes so that you wouldn't get any new emails for 1 hour.

Tips:

The e-mail server may block the mail as spam if the camera sends the email frequently. Or your email account has an overactive spam filter or safety rules that blocked a couple of emails send from a camera. You can try to set the filter rule of your email account.

5.6.4.3 FTP Alarm Sending

You can have the pictures uploaded to DropBox or an FTP server instead of an email address.

The camera supports upload to Dropbox, DriveHQ, cameraFTP, MangoCam and other FTP services that you would sign up for separately.

The camera can NOT upload the video streaming to FTP or dropbox directly, since the FTP protocol is based on the file transferring, it needs a complete file to transfer, it need a local storage. That's why the video need to be recorded to a local storage firstly.

But camera has the ability to send a snapshot which takes up very little memory to Dropbox or FTP server directly.

Tips: To learn how to upload the snapshots and videos in the microSD card to an FTP server or Dropbox, please refer to "Send files in Storage to FTP Server" chapter in this manual.

FTP	Alarm Sending			
	Snapshot from:	Primary str	eam 🔻	
	Snapshot duration:	1	seconds	(1-20)
	Snapshot frame rate:	1 T fps		
	Alarm interval:	0	seconds	(0-86400 0:continuous)
	Image file name:	PA		
	Suffix of file name:	Seque	nce numb	er 🖲 Date time 🔍 None

[Snapshot from] Select snapshot stream source which can be "Primary stream" and "Secondary stream". For smaller pictures you can select from "Secondary stream".

[Snapshot duration] The number of seconds that the camera should keep sending images after motion stops. [Snapshot frame rate] The number of frames per seconds that the camera should keep sending images at when an alarm is triggered. If "Snapshot duration" had a value of 4 and "snapshot frame rate" had a value of 2, you would be getting 2 images each second for 4 seconds in a row, meaning 8 pictures total for each motion detection event. [Alarm interval] This is the number of seconds for which the camera should stop sending images after the first set. Setting the time to 0 disables this feature. It allows you to designate a time (in seconds) during which new emails are suppressed. For example, if you want to avoid a flood of images, you could set this time to 3600 seconds so that after a motion detection event you wouldn't get any new images for at least 1 hour.

[Image file name] Specify the prefix of image file name.

[Suffix of file name] Specify the suffix of image file name.

	FTP Dropbox
FTP server name:	
FTP server port:	21
Authentication:	🖲 Yes 🔍 No
User name:	
Password:	
Re-type password:	
Remote path:	
	Apply Back

[FTP or Dropbox] Select the FTP server or Dropbox to upload the recorded files.

[FTP server name] Type the name or IP address of the FTP server. At a minimum you need the IP address (FTP server name) for your FTP server. The port is almost always 21, and typical servers need a username and password which means "Authentication" should be set to "Yes".

[FTP server port] The port number of the FTP server (default is 21).
[Authentication] Select whether authentication is required by the FTP server. Choose "No" for anonymous access.
[User name] Type your FTP user name.
[Password] Type your FTP password.
[Re-type password] Re-type your password.
[Remote path] Input the file directory. By default the camera will try to upload the files to the user's root folder. The

FTP server settings may configure that location to be the user's home directory, some other specified location, or it may default to the root of the file system. It is an optional setting to specify a folder on the FTP server. If you need to specify a directory, a / character should be placed before the name of the directory. And you have to make sure that the folder exists on the FTP server with the exact same spelling.

Click Apply to confirm your settings.

5.6.4.4 FTP Periodic Sending

Instead of using motion detection in "FTP alarm sending", you can also use the "FTP 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:	◎ Sequence number ● Date time ● None

[Period Interval] Time interval between snapshots. It allows you to designate a time (in seconds or minutes or hours) during which new emails are suppressed. For example, if you want to avoid a flood of emails, you could set this time to 60 minutes so that you wouldn't get any new emails for 1 hour.

[Snapshot from] Select snapshot stream source which can be "Primary stream" and "Secondary stream". For smaller pictures you can select from "Secondary stream".

[Snapshot duration] The number of seconds that the camera should keep sending images after motion stops. **[Snapshot frame rate]** The number of frames per seconds that the camera should keep sending images at when an alarm is triggered. If "Snapshot duration" had a value of 4 and "snapshot frame rate" had a value of 2, you would be getting 2 images each second for 4 seconds in a row, meaning 8 pictures total for each motion detection event. **[Image file name]** Specify the prefix of image file name.

[Suffix of file name] Specify the suffix of image file name.

Tips:

1. To learn more about setting up camera to record in FTP server, please refer to "How do I setup my camera to record to FTP" in Technical Articles section from our technical support website.

2. To learn how the camera works with dropbox, please refer to "**Record snapshot and video to Dropbox**" in Technical Articles section from our technical support website.

The "HTTP alarm sending" and "HTTP Periodic sending" are only used by network professionals which use the HTTP servers.

5.6.4.5 HTTP Alarm Sending

Alarm interval:	30 seconds (0-86400 0:continuous)
Sending URL:	
HTTPS:	Yes No
Authorization:	Yes No
User name:	
Password:	
Re-type password:	

Apply Back

[Alarm interval] This is the number of seconds for which the camera should stop sending HTTP notification alerts after the first alarm trigger. Setting the time to 0 disables this feature and an HTTP alert is sent on every motion alert detected.

[Sending URL] Input the URL where the camera shall forward alarm.

[Authentication] Select whether authentication is required by the FTP server.

[User name] Type your HTTP user name.

[Password] Type your HTTP password.

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

Click Apply to confirm your settings.

5.6.4.6 HTTP Periodic Sending

Period interval:	0 H 1 M 0 S (MAX: 24 hours)
Sending URL: HTTPS: Authorization: User name: Password:	<pre>● Yes ● No ● Yes ● No</pre>
Re-type password:	

Apply Back

[Period interval] Time interval between HTTP sending.

Sending URL] Input the URL to which the camera will send an alarm to.

[User name] Type your HTTP user name.

[Password] Type your HTTP password.

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

Click "Apply" to confirm your settings.

5.6.4.7 Snapshot to storage on alarm

The following chapters will show even more possibilities to use motion detection. For example, 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.

Tips: To learn how to setup recording to MicroSD card, please refer to "**How to setup recording to MicroSD card**" in Technical Articles section from our technical support website.

Snapshot from:	Primary st	ream 🔻
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:	Sequence number Date time	

Apply Back

[Snapshot from] Select snapshot stream source. It can be "Primary stream" and "Secondary stream". For smaller pictures you can select from "Secondary stream".

[Snapshot duration] The number of seconds that the camera should keep sending images after motion stops. **[Snapshot frame rate]** The number of frames per seconds that the camera should keep sending images at when an alarm is triggered. Number of seconds for which the camera should stop sending e-mail alerts after the first set. Setting the time to 0 disables this feature.

[Alarm interval] The number of seconds for which the camera should stop sending e-mail alerts after the first set. Setting the time to 0 disables this feature. It allows you to designate a time (in seconds) during which new pictures are suppressed. For example, if you want to avoid a flood of pictures, you could set this time to 3600 seconds so that after a motion detection event you wouldn't get any new pictures for at least 1 hour.

[Image file name] Specify the prefix of recording file name.

[Suffix of file name] Specify the suffix of recording file name.

Click Apply to confirm your settings.

5.6.4.8 Snapshot to storage periodically

Instead of using motion detection (Snapshot to Storage on Alarm), you can also use the "Snapshot to storage periodically" task to take snapshots at regular time intervals.

Period interval:	0 H 0 M 2 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:	Sequence number Date time

Apply Back

The **"Period Interval"** allow you to designate a time (in seconds or minutes or hours) during which new snapshots are suppressed. For example, if you want to avoid a flood of snapshots, you could set this time to 60 minutes so that you wouldn't get any new snapshots for 1 hour.
5.6.4.9 Record to storage on alarm

Phylink camera has inbuilt DVR software to record images and videos to its own MicroSD card (purchased separately) or NAS. The standalone MicroSD recording features requires no other equipment to be on or even present at the camera location, and requires no software purchase.

"Recording to storage" task will allow you to record footage and motion alerts directly to the MicroSD card or NAS for future review. The recorded files may be reviewed remotely on your phone / computer when using Phylink App / software.

Tips: To learn how to setup recording to MicroSD card, please refer to "**How to setup recording to MicroSD card**" in Technical Articles section from our technical support website.

Record from:	Primary	stream 🔻	
Post-recording time:	30	seconds (5-86400)	
Split duration:	60	seconds (10-1200)	
Record thumbnail:	🔍 Enable 🖲 Disable		
Record file name:	MA		
Suffix of file name:	Date time		
	Date time & record time length		

Apply Back

[Record From] Select the stream from which it should record. It can be "Primary stream", "Secondary stream" and " Mobile Stream".

Change the "Record from" option to "Secondary Stream" if you prefer to use less storage space with medium resolution files. The details of the available streams are explained in "Stream Setup" chapter within this manual. **[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] Specify the prefix of recording file name.

[Suffix of file name] Specify the suffix of recording file name. The suffix can named by Date time or Date time & record time length. Each recording file takes the Date time as a suffix, and this Date time is according to the system time of camera. So that you can index these files easily and see what happened at that time.

Click "Apply" to confirm your settings.

Tips: Each recorded file takes the Date time as a suffix, and this Date time is according to the system time of camera. So that you can index these files easily and see what happened at that time.

An example for "Split duration" and "Split duration":

If "Post-recording time" has a value of 30 seconds, the camera triggered via motion detection and start record at time 17:54:23, then no motion detection at 17:59:23, the camera will continue to record extra 30 seconds, till 17:59:53. Then you would get a 5 minutes 30 seconds recording, not 5 minutes recording video.

For avoiding a flood of recording files, the "Split duration" can be setup Max 1200 seconds. For example, if motion detection triggered at 17:54:23 and ended at 18:08:23, the "Split duration" is 600 seconds and the "Post-recording time" is 30 seconds, then only two recording file created with 14 minutes 30 seconds length video.

5.6.4.10 Record to Storage Continuously

Instead of using motion detection (Record to Storage on Alarm), you can also use the "Record to storage continuously" task to record video at 24 hours or as per your schedule.

Record from:	Primary stream <
Split duration:	66 seconds (10-1200)
Record thumbnail:	🖲 Enable 🔍 Disable
Record file name:	MP_TEST4
Suffix of file name:	Date time
	Date time & record time length

Apply

Back

[Record From] Select the stream from which it should record. It can be "Primary stream", "Secondary stream" and " Mobile Stream".

Change the "Record from" option to "Secondary Stream" if you prefer to use less storage space with medium resolution files. The details of the available streams are explained in "Stream Setup" chapter in this manual. [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] Specify the prefix of recording file name.

[Suffix of file name] Specify the suffix of recording file name. The suffix can named by Date time or Date time & record time length. Each recording file takes the Date time as a suffix, and this Date time is according to the system time of camera. So that you can index these files easily and see what happened at that time.

Click "Apply" to confirm your settings.

Tips: To learn how to setup recording to MicroSD card, please refer to "How to setup recording to MicroSD card" in Technical Articles section from our technical support website.

5.6.4.11 Send files in Storage to FTP Server

Phylink camera has in-built FTP client software to upload images and videos to a FTP server. To send snapshots and videos stored on the Micro SD card to FTP server you need to insert a Micro SD card to the camera. Once successfully transferred, each original file on the Micro SD card will be deleted.

Cloud storage services can backup your recorded files on your SD card or NAS drive. If you have set up a cloud uploading, the camera will keep recording and uploading at same time. You can keep the backup of recorded files on your cloud storage even if the camera is destroyed or stolen. If you have set the cloud or FTP uploading the recorded files will be saved to a remote place where can't be stole from.

With the cloud uploading features, you can get or share the recorded files easily and watch the snapshots, videos via Dropbox or FTP App.

	FTP Dropbox
FTP server name:	
FTP server port: Authentication:	21
User name:	🖲 Yes 🔍 No
Password:	
Re-type password:	
Remote path:	

[FTP or Dropbox] Select the FTP server or Dropbox to upload the recorded files.

Apply Back

[FTP server name] Type the name or IP address of the FTP server. At a minimum you need the IP address (FTP server name) for your FTP server. The port is almost always 21, and typical servers need a username and password which means "Authentication" should be set to "Yes".

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

[Authentication] Select whether authentication is required by the FTP server. Choose "No" for anonymous access. **[User name]** Type your FTP user name.

[Password] Type your FTP password.

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

[Remote path] Input the file directory. By default the camera will try to upload the files to the user's root folder. The FTP server settings may configure that location to be the user's home directory, some other specified location, or it may default to the root of the file system. It is an optional setting to specify a folder on the FTP server. If you need to specify a directory, a "/ "character should be placed before the name of the directory. And you have to make sure that the folder exists on the FTP server with the exact same spelling.

Tips:

1. To learn more about setting up camera to record in FTP server, please refer to "How do I setup my camera to record to FTP" in Technical Articles section from our technical support website.

2. To learn how the camera works with dropbox, please refer to "**Record snapshot and video to Dropbox**" in Technical Articles section from our technical support website.

5.6.4.12 Push Notification

Push Notification allows iOS or Android apps to listen for messages being pushed to it from the server. You can receive a Push Notification while motion is sensed. Then you can tap our PHYCAM app to view the camera's live video on your iOS or Android device or tap to view the alarm recordings on MicroSD card via iOS or Android device.

Alarm interval:	600	seconds (5-86400)
	Ap	ply Back

[Alarm Interval] The number of seconds for which the camera should stop sending alerts after the first set. It allows you to designate a time (in seconds) during which new alerts are suppressed. For example, if you want to avoid a flood of alerts, you could set this time to 3600 seconds so that after a motion detection event you wouldn't get any new alerts for at least 1 hour.

Click Apply to confirm your settings.

5.7 Tools

The Tools menu is located on the right of the Settings screen. When you click on the "Tools" menu, a sub-menu of setup options will be displayed.



5.7.1 System Identity

System Name:	Phylink Cube HD1080
System Contact:	Default Contact
System Location:	Default Location

Apply

[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. This is useful when using a multi-camera viewer program.

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

5.7.2 User Management

Allows you to add or remove guest users who can view your camera. Useful if you want to allow others to view your camera, without having full administrator rights.

No.	User name	Group
1	<u>admin</u>	Administrators

Δdd				
	Λ.	d	a	
		u	u	

[Add] Up to 64 users (including the admin) can be created. Click Add button to add another user. You will then need to fill out the user name plus the password for the new user.

HTTP/RTSP Authentication method:

- Use Basic Authentication
- Use Digest Access Authentication

Allow anonymous access

[HTTP/RTSP Authentication method] The "basic" authentication scheme is based on the model that 48 the client must authenticate itself with a user-ID and a password. Digest Access is a more secure login method as the user name and password are encrypted before being sent over the internet, however not all systems support Digest Access Authentication.

[Allow anonymous access] This is to be used if you wish to share video with other users, without prompting them for a user name and password. This will allow the user free access to view the "Live View" page, whereas access to the Settings page will still be prohibited.

5.7.3 Date & Time

The camera support SNTP (Simple Network Time protocol), it will automatically sync with SNTP server while it's online. This feature allows you to set the date and time - used for the time-stamp of any recording files created by the camera. Each recording file takes the Date time as a suffix, and this Date time is according to the system time of camera so that you can index these files easily and see what happened at that time.

Current device time:	16/03/2016 05:33:15
Proposed device time:	16/03/2016 05:33:17
Select to change the time zone	e for the device location:
(UTC) Dublin, Edinburgh, Lisbon,	London 🔻
🗹 Automatically adjust clock i	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.go

[Current device time] Internal time of the 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 your time zone.

Apply

[Daylight saving time] Tick the box to enable daylight saving time.

[Date and Time format] Select the format of the date and time.

[Auto time setting (SNTP)] Enable or disable the auto time setting to update to the server below.

[Time server] Type the SNTP server name. There are suggestions included.

Click Apply to confirm your settings.

Tips:

1. If the SNTP server is not found, the camera's time will be synchronized with the PC time.

2. The camera keeps track of the time even when power is disconnected.

3. There are various recording and alarm tasks which you can enable or disable on your camera under the Task Management menu. Each task can be set to be active or inactive at certain times of the week. You can specify a schedule to perform these tasks. Setting up the schedule requires a system time as a reference, you must set the time and date before you set up the schedule.

5.7.4 Backup and Reset

Allows you to reset the camera to factory defaults, backup the configuration in case of accidental reset and restore settings from a backup.



[Reset] Click Reset to revert the camera to default factory settings. All users and settings will be lost, this will require you to reconfigure your camera.

[Backup] Click Backup to back-up the current configuration of the camera for future reference. Once you have your camera setup as you require, this is recommended.

To restore a backup file:

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

NOTICE Do not turn off the power during the Restore function since this might corrupt the camera's firmware.

5.7.5 Watchdog Setup

The watchdog is used to prevent the system from crashing due to some coincidental reasons, such as unstable network, powering off suddenly etc. In most cases, you don't need to enable this features.

Periodic reboot:	Enable I Disable
Offline reboot:	Enable I Disable
	Apply

[Periodic Reboot] Set the camera to automatically reboot at a certain time everyday, or one day a week. **[Offline Reboot]** You can set the camera to ping with your router, if a connection isn't made then the camera will automatically reboot to try and re-establish a connection.

Click Apply to confirm your settings.

5.7.6 Firmware Upgrade

From time to time a new firmware may be released for your Phylink camera. To check for updates, consult the Phylink website at http://www.phylink.com

We do recommend you to update the latest firmware for your camera whenever we release one to take advantage of new features and bug fixes. However, this is a serious process and can damage your camera if not done correctly.

Please follow up the procedures below to upgrade your camera's firmware to the latest version.

Step 1

Download the firmware file matching for your camera model number. Once you have downloaded, store it in a place that is easily to get to. The firmware is in a ZIP file which is a compressed file format. You will need a program like WinZip or WinRAR to unzip the file. This is very important as the firmware will not update properly if it's left in the compressed state.

Step 2

Click "Tools", then click "Firmware Upgrade ", and you'll get to this screen:

PHYLINK	Live View Wizard System Support Reboot
Firmware Upgrade	Camera
Warning:	NetworkStorage
Upgrading the firmware may erase or change your o	
settings, please ensure you have made a backup of under the Backup and Reset menu.	your settings Tools
·	System Identity
Current firmware version is: 6.01 (build 20160229)	User Management
Click continue to proceed.	Date & Time
	Backup or Reset
Continue Back	Watchdog Setup
	Firmware Upgrade

Click "Continue" button if you want to upgrade a new firmware.

Step 3

Click "Choose File" button to locate the MFW file you have uncompressed from the ZIP file. The firmware file is .mfw format, you can't open the file, as it's only recognized via camera. Select the correct camera model's firmware file , the firmware file and the path will be automatically entered the box.

Upgrade Firn	nware (path and file name)
Choose File	No file chosen

Upgrade

When you click "Upgrade" button, the process will start. This can take 3-5 minutes. Don't perform any other action on your computer while you are doing this upgrade.



Do not unplug or power off the camera while the upgrade is in progress. Interruption to this process will result in your camera being un-useable !

Step 4

After the upgrade completes, you will see a prompt "Firmware upgrade successfully, reboot now?" To reboot the camera, then click "Reboot" button, after this your latest firmware will be recorded.

Firmware upgrade successful, reboot now?



You can check the camera firmware version on camera "System" page, which is on the top of the right corner. Click " System", you will get to the screen. If your firmware upgrade succeed, then the firmware version will be updated.

PHYLINK	Live Vie	w Wiz	ard	System Support Reboot
System Information		^	•	Camera Network
System			•	Storage
Model:	PLC-233W			2
System up time:	1 Days 04:26:18			Task
BIOS/Loader version:	2.1 (build 0002)		•	Tools
Firmware version:	6.01 (build 20160229)			System Identity
ActiveX Control version:	1,2,6,1			User Management
MAC address:	7c:dd:90:8a:34:23 (7CDD908A3423)			Date & Time
Wireless				
Status:	No connection			Backup or Reset
Ethernet				Watchdog Setup
Status:	Connected			Firmware Upgrade

6.0 Troubleshooting

Problem	Cause and Remedy				
I forgot the IP address of the camera.	 Use the Camera Live program to find the camera. Use the iOS or Android app and go to Advance Setting > About Device. 				
I forgot my password to access the Settings page.	1. You will need to press the RESET button. Note: all configuration settings will be lost.				
Wi-Fi connectivity doesn't work.	 Signal strength is weak. Relocate the camera nearer to your router or remove the obstacles between the two. Make sure your wireless network SSID and Encryption settings are identical to your networks. Check for any interference from other equipment. For more information please refer to Appendix F: Wireless Installation Considerations in this Manual. 				
The picture viewing interface does not appear on web browser.	 Check that your Internet Explorer browser settings allow you to download and install ActiveX controls. Check that your browser settings allow you to download and install Adobe flash plug-in. Network traffic may prevent the viewing interface from appearing quickly. Wait for a while. 				
The colour of the picture is strange.	 Confirm the colour setting of PC is 16 bits or more. Check the settings under the "Night Vision Setup" menu. 				
The motion detection feature does not send e-mail alerts.	 Check the e-mail alert feature is properly configured The SMTP server that the IP camera uses to send the e-mail may be filtering e-mail to prevent spam from being sent from your server. Try using a different SMTP server or contact your ISP to see if SMTP access is being blocked. Your Primary DNS IP Address may not be set 				
The power LED is flashing green and the camera is inaccessible.	1. A firmware upgrade has been interrupted or the firmware has otherwise been damaged. Please contact our technical support.				
Motion Detection triggers unexpectedly.	1. Motion detection is based on changes in pixel in the image. This means that if there are sudden changes in the lighting, motion detection may be triggered mistakenly. Lower the sensitivity setting to avoid problems.				
The camera is producing noisy images.	The video images might be noisy if the camera is used in a very low light environment.				

Problem	Cause and Remedy					
Video stalls 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.					
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 power LED does not light up.	The power supply might be faulty. Confirm that you are using the provided DC 12V power supply for this camera. Verify that the power supply is correctly connected. If the camera is functioning normally, the LED may have been disabled on the Camera > Camera Setup menu.					
Bright spot in video when viewing camera at night.	Night vision reflects when pointing the camera at a window or mirror. Move the camera to a different location.					
Cannot view alert recordings.	 You must enable at least one recording task on Task > Taks managemant menu. Alert recordings require a microSD card (not included) to be inserted into the camera. The microSD card is not formatted and the camera dose not recognize it. The motion detection windows are inactive. The motion detection zones have not been made sensitive enough. 					

Tips:

More FAQ and Troubleshooting guide, are available on our website, in Support - Troubleshooting section. You can also write to our technical support team by email at: support@phylink.com. Our engineer and customer service team will try their best to reply you in 24 hours. Phylink support team has better knowledge about network technology and IP camera products. Contact us with any questions, no matter how simple or how complicated it is. We are always glad to help. Most issues can be resolved very quickly.

7.0 Glossary of Terms

Adhoc Mode

A wireless network system in which devices communicate directly with each other, without the use of a wireless router.

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.

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.

Firmware

The firmware is the software in your camera that makes the hardware functional and allows you to use the many features of your wireless IP Camera.

FTP

File Transfer Protocol. Network cameras equipped with an embedded operating system, such as Linux, can use FTP to send images to a website.

Gateway Address

IP address of the gateway through which the IP camera is connected.

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.

Infrastructure Mode

One of the wireless network system in which devices communicate with each other by first going through the wireless router.

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.

JPEG

A standard image format, used widely for photographs, also known as JPG.

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.

Primary DNS

IP address of the primary DNS server, if configured for the IP camera.

Subnet Mask

Subnet mask of the LAN to which the IP camera is connected.

SMTP

Simple Mail Transfer Protocol.

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.

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.

UPnP

Universal Plug and Play is architecture for pervasive peer-to-peer network connectivity of intelligent appliances and wireless devices.

WEP

Wireless Equivalent Privacy. A security protocol for wireless network defined in the IEEE 802.11b/g 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.

Tip: To understand more details for network terminology, please refer to Appendix A: A Quick Review of Networking Terminology.

8.0 Appendix

Appendix A: A Quick Review of Networking Terminology

To participate in a computer network, each device needs an "Internet Protocol" address that is unique on that network. This IP address consists of 4 groups of numbers separated by periods. For example: 192.168.0.2 IP addresses are assigned to a device either automatically by the router or manually by a person who is setting up the network. The router is the device that is managing the addresses and the flow of data between those addresses on your network. Sometimes the routing function is not provided by a separate device and is built into your cable modem or DSL modem.

When you first plug the camera into your router with the network cable, the camera asks the router to get a valid IP address, and the router provides the next available IP address on the local network. With "local network" or LAN we're referring to your own home or business network. On the other hand, the term WAN or "Wide Area Network" refers to the global internet.

Your router is sometimes also called a gateway because it is like a gateway from your own local network to the internet. Unless you have an all-in-one combination of modem and router you'll probably see that your router has one network jack marked WAN which connects to the cable or DSL modem and a set of 2 or 4 jacks marked LAN for your local network devices.

Your router will have 2 IP addresses of its own, a WAN IP address that identifies it on the internet and a LAN IP address that identifies it on your local network. The LAN IP addresses often start with 192.168 or 10.0 From any computer on your network it is easy to find the WAN IP address of your router just by opening a browser and going to www.checkip.org

Since your own private network devices including your camera are not directly visible from the internet, for remote access you would typically use your router's WAN IP address together with some instructions to your router to forward the requests from the internet to your camera.

The messages going back and forth between the camera and the router regarding the initial IP address are called DHCP for "Dynamic Host Configuration Protocol".

Each device also has a unique hardware address that is called a MAC address. This MAC address is unrelated to Macintosh computers. What's special about this hardware address is that it is totally unique to each network device.

Appendix B: Resetting the Camera back to Factory Settings

For outdoor cameras it is easier to use the software Reset button in the "Backup or Reset" menu.



After resetting the camera will reboot and all custom settings will be lost, this will require you to reconfigure your camera. We recommend clicking the Backup button to back-up the current configuration before resetting.

If you ever forget your admin password and want to reset the camera to the factory defaults, the hardware resetting is needed.

Hardware Resetting for PLC-325PW/PLC-335PW

1) Make sure the camera is powered up.

2) Find the PLC-325/335PW reset button at the bottom of the camera.

3) Press and hold the reset button for 10-15 seconds. You'll see the Status indicator LED go off for a few seconds. This indicates that the reset to factory settings is in progress.



After the restart, the camera will be at factory settings. This means the username and password will both be "admin" again, and all previous wireless network info is wiped out and replaced with the factory default as well.

Hardware Resetting for PLC-233W/PLC-233W

1) To reset the camera, make sure the power is on.

2) Insert the tip of a pen or a paper clip into the reset hole, push and hold the button for 1 second or more.

3) Note that the Status indicator LED will go off for a few seconds.

This indicates that the reset to factory settings is in progress.

After the restart, the camera will be at factory settings. This means the username and password will both be "admin" again, and all previous wireless network info is wiped out and replaced with the factory default as well.

Hardware Resetting for PLC-336PW

1) If hardware reset is needed, unscrew the entire front part of the camera.

This requires you to put the camera indoors in a low humidity environment – before exposing internal electronics. It is easiest to do it if you take the Sunshade off first. The reset button is right under the Micro SD card slot.



2) To reset the camera, make sure the power is on.

3) Press the Reset Button for one second or more, then release it.

3) Note that the Status indicator LED will go off for a few seconds. This indicates that the reset to factory settings is in progress.

After the restart, the camera will be at factory settings. This means the username and password will both be "admin" again, and all previous wireless network info is wiped out and replaced with the factory default as well.

Tip:

Please note that after resetting the camera ,all your settings including the wireless setting will return to factory settings. So you have to connect the camera to router with the Ethernet cable and set wireless again.



Appendix C: Connecting the Camera directly to a Computer

You can connect the camera directly to a computer. Please note that in this mode you will not be able to view your camera from anywhere else apart from the computer you are currently using.

Tips:

1. We don't recommend that you connect the camera to computer directly. If you don't have some basic network background, connecting the a IP camera to your computer is a challenge for you.

2. The camera's default IP address is 192.168.168.100 without router's DHCP server.

Also, you computer can not get a Dynamic IP without router's DHCP server. So you have to change your computer's IP address. You will need to put the same numbers for the first 3 fields (192.168.168) but change the fourth field to another number. That means your camera must be same network segment with your computer.

To connect your camera directly to a computer, please follow the following steps.

1. Connect one end of the network cable in to the Camera Network Connection socket, and plug the other end in to a spare network port on your computer.

2. Connect the included power adapter to the power port on the camera and the other end into an electrical socket. Do not turn the power on at this time. You must then assign your computer an IP address so it can talk easily to the camera.

On a PC:

1. Open the Control Panel and double click on "Network Connections" then right click on your "Local Area Network" connection, and click Properties. Be sure to select the Network icon that corresponds to where you have plugged the camera in to – so this would not be listed as a Wireless, Wi-Fi or Bluetooth Network.

2. Select "Internet Protocol (TCP/IP)" then click Properties.

3. Take note of your current TCP/IP Settings and then click on "Use the following IP settings"

4. In the "IP Address" Field type in the number 192.168.168.20

5. In the "Subnet Mask" type in 255.255.255.0

6. In the "Default Gateway" type 192.168.168.1 or leave it blank(The camera will automatically assign itself this IP address when no DHCP server is present)

7. Leave DNS server settings blank.

8. Click "OK" then "Close" to apply these settings.

9. Turn the power on to the camera.

10. The Status indicator LED on the camera will light up.

You can now proceed to the Software Installation section.

On a Mac:

1. Open "System Preferences" from the dock, and then select "Network" to edit your network settings. As the camera is connected to your Mac using a cable we must choose the "Built-in-Ethernet" option. Select "Built-in Ethernet" and click the "Configure" button. Make a note of your current TCP/IP Settings.

2. Select "Manually" from the IPv4 drop-down box at the top of the dialog, and then enter these settings:

IP Address: 192.168.168.20

Subnet Mask: 255.255.255.0

Router/Default Gateway: 192.168.168.1 or leave it blank

DNS Servers: Leave blank, not important at this stage.

Search domains: Optional, leave blank, not important.

3. The click "Apply Now".

4. Turn the power on to the camera.

5. The Status indicator LED on the camera will light up.

You can now proceed to the Software Installation section.

Appendix D: Recovering from a failed Firmware update using Windows

If you have tried to install a new firmware on your camera, and the procedure has failed, your camera may be unresponsive. If the firmware update failed, and your cameras BIOS loader has become corrupted, your cameras Status Indicator LED will be flashing green when turned on, which indicates that the camera is in factory mode. There is a procedure you can try yourself, however it is quite advanced, so should only be attempted by those with a solid understanding of TCP/IP settings.

Step 1 - Download the firmware

1. Download the correct new firmware for your camera from our technical support website and save it to your PC. Unzip (uncompress) the firmware to a directory on your PC. Copy the firmware .MFW file to an easy to access place, such as D:\firmware.

Step 2 - Download the tftpd32 utility

Download the thetftpd32 utility from http://tftpd32.jounin.net/tftpd32_download.html or http://www.phylink.com/downloads/download_file/tools/guiformat.zip

Step 3 - Change your PC Network Setting

Connect the camera via the network cable directly to your computer and power on it. Open Network Settings on your PC, and change your PC Network Setting to the followings: IP Address: 192.168.168.50 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.168.1

To do this you need to go to **Control Panel > Network and Sharing Center > Change adapter settings**.

Note: You should change these settings on the Ethernet adapter, instead of wireless network adapter.

~ -		Gene	ral				
€	🕎 🕨 Control Panel 🕨 Network a		can get IP settings assigned autom capability. Otherwise, you need to				
Organize 🔻	Disable this network device		the appropriate IP settings.	ask your network administrator			
-	ocal Area Connection) Obtain an IP address automaticall	у			
1000	letwork htel(R) 82578DC Gigabit Network		Use the following IP address:				
	Disable	I	P address:	192 . 168 . 168 . 50			
	Status	s	ubnet mask:	255 . 255 . 255 . 0			
	Diagnose	D	efault gateway:	192 . 168 . 168 . 1			
6	Bridge Connections						
	Create Shortcut	C	Obtain DNS server address automatically				
6	Delete) Use the following DNS server addr	resses:			
6	Rename	P	referred DNS server:				
6	Properties	A	lternate DNS server:				
	- 0	C	Validate settings upon exit	Advanced			
				OK Cancel			

Step 4 - Upload the firmware using tftpd32 utility

Launch the tftpd32 utility. Click "tftp client" tab, then config the tftp client setting as follows: (a) "Server interface" - Select the Ethernet adapter's IP address, should be 192.168.168.50 (b) "Host" - Type 192.168.168.1 (This is the camera's IP address in factory mode.) © "Local File" - Locate the firmware you have downloaded in step 1.

🏘 Tftpd32 by Ph. Jounin		_		×
Host 192.168.168.1]	<u>B</u> rowse Show <u>D</u> i] r]
<u>G</u> et	<u>Break</u>		<u>H</u> elp	

Click the "Put" button to upload the firmware to camera. The utility will show the progress and status.

After the file transfer is done, the cameras Status Indicator LED is steadily on, in green.

Wait for a while (for the file been stored in flash) the Status Indicator LED will change from steadily on to blinking slowly, in green – this means the firmware has finished installing.

Power off and then power on the camera, it should work again.

Tips: Unplugging the power or network cable will cause the uploading process failure.

Appendix E: Manually entering TCP/IP Settings for a Camera

In most cases, this is not required as the router will assign the correct settings to the camera. It is however useful if you want to setup the TCP/IP settings of the camera before you connect to it, if DHCP is disabled across your network, or if you have subnet network problems.

Camera Live software is a tool that can find (search for) your camera's IP address on your local network. Then you can setup the TCP/IP settings of the camera.

STEP1

Make sure that your computer is located on the same local network as the camera.

Start the Camera Live and click on 😟 icon from the main toolbar. Click the "**Search**" button, the program should automatically find the camera in your local network (LAN).

o C Came	era MultiLi	ve Video		O etup			8 — 0
1	Model PLC-223W	Name Phylink Cube	Location Default Location	IP 192.168.2.113	Port 80	MAC 7C:DD:90:8A:34	P2P UID 8CX3DTSLTTS
	Se	arch	Browser		Clear	IP conf Version 1	ig 2 (Build 201610

Tip: Sometimes the program may take a few minutes to find your camera, so if your camera isn't displayed, wait a few moments before clicking "**Search**" button again.

STEP2

Select the camera from the camera list and it will be highlighted.

Click the "IP config" button at the lower right corner of the window, and the Camera Settings window will pop up.

Enter your settings as below:

- 1. User name : admin; Password: admin (This is your default administrators account).
- 2. Leave the default port number as 80.
- 3. Check the "Assigned IP Address Manually" box and type the IP address you want to change to.
- 4. Type the Subnet Mask, usually is 255.255.255.0.
- 5. Type the Default Gateway (This should be your router's IP address).

Once you've entered the details click "Apply" then "Exit".

nera Settings					
User Name	admin				
Password	•••••				
DeviceName	Phylink Bullet HD1080				
Device Location	Default Location				
HttpPort	80				
\checkmark	Assigned IP Address Manually				
IP	192	.168	1	156	
Mask	255	.255	255	.0	
Default Getway	192	168	.1	1	
	Assigned DNS Manually				
Primary DNS	0	.0	.0	.0	
Sencondary DNS	0	0	0	.0	
Query	Apply			Exit	

NOTICE

Without DHCP server, the default IP address of the camera is 192.168.168.100. This can be changed to any IP address on your IP range. For example if the IP address of your PC is 192.168.1.52 then the IP address of your camera should be unique and on the same subnet, i.e. 192.168.1.X where X is any number between 1 and 255 except 52. Ensure the IP address you chose is not the same as other devices on your local network as this will result in conflict and may cause the device to not work properly.

Appendix F: 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 in 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 less than 3 out of 5 bar, you may need a Wi-Fi range extender.

Appendix G: Setting up the Camera over Wi-Fi using WPS

Phylink camera can be setup through a WPS connection if your router supports this function. To connect to your camera to router through WPS connection press the WPS button located on your router and then press the WPS button on the camera. This will establish the connection.

Note: The WPS button option should be enabled on the router for this function to work.

IMPORTANT!

WPS function helps you set up your wireless easier. But if you don't follow the instructions below carefully, you may fail.

STEP1

The WPS function only work after the camera start up is completed.

After the camera is powered on, wait it start up completely. The indicator LED shows yellow light and off which means the system is being started. When the indicator LED shows a green light again, it means the system has started successfully.

STEP2

After the camera is powered on and start up completely, short press the Reset/WPS button on the camera and the Status indicator LED will blink red light.

Please note that you should not press the Reset/WPS button over five seconds, otherwise the camera would be reset instead of entering the WPS process.



STEP3

Press the WPS button on your router within two minutes. The camera will automatically create a wireless connection to your router. While connecting, the Status indicator LED will always on and the camera will reboot.

Tips:

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

On some routers, you may need to log in to the web interface and 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.

9.0 Contact Us

If you encounter any problems, do not return the product to the store

If you have any questions please email us at support@phylink.com All Phylink hardware products have a one year warranty. We offer free technical support within warranty time.

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

Any questions? Please send us an e-mail, we promise to deal with emails within 24 hours after receiving them. We are always glad to help, however we ask you to read this user manual first. Find and view Technical Articles and Troubleshooting Guide matching your problems from the support section on our support website. In most cases, the problems you encounter will be found with answers and the corresponding solutions.

Can I speak to someone?

We address most support inquiries through email. One of our qualified technicians will help you as quickly as possible. Most issues can be resolved much quicker by email than by phone. For special technical problems from customers, email support can provide pictures, video and text points which cannot be provided by phone.

If you are totally stuck, we can make an appointment for tech support tutorial via one-on-one telephone.

Find our support and information

For more information or support, please visit http://www.phylink.com For technical questions, please email us at support@phylink.com You can access related technical articles on our support website

Check for the latest updates

1. For the latest documentation and updates, please visit www.phylink.com.

New firmware versions are released periodically and they provide new features, make improvement to existing features and fix known issues or bugs etc.
 We strongly recommend you to upgrade to the latest firmware version available for your Phylink product. To ensure that you have the most recent firmware, please visit www.phylink.com.
 To learn how to update the firmware, please refer to the "How to upgrade firmware to camera" on Support - Technical Articles section from our website.

3. To ensure you have the most recent versions for the software, please visit www.phylink.com.



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