User's Manual

HU-318

CONTENTS

INTRODUCTION

SkylinkHome™ Internet Hub allows you to remotely control various devices from a computer, a Smartphone or tablet.

With the wireless camera, you may visually see your command occur, turning on a light or opening a door.

The following items are included in this package:

- One Internet Hub
- One Power adapter
- One Network cable
- User's Manual } CD
- Setup Guide } CD

SETTING UP THE INTERNET HUB

Before installing the Internet Hub, ensure your system/network meets the following requirements. You must have:

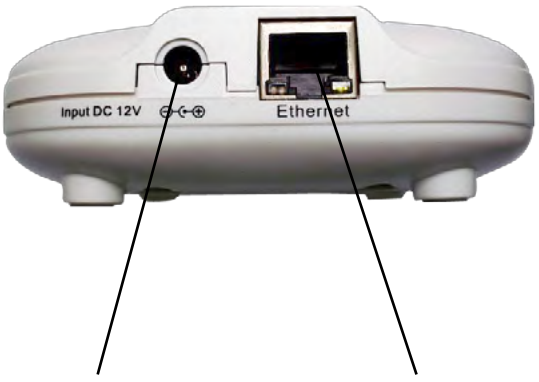
- An Ethernet RJ-45 port from your existing Wireless router.
- A computer installed with an Internet Browser.

Follow the steps below to setup your Internet Hub. Make sure you follow each step carefully to ensure that the Internet Hub operates correctly.

1) Insert 4 AAA batteries into the Internet Hub (with the correct polarity as shown). The LCD display will turn on and the Power LED will flash.

2) Using the network cable (provided) connect the Internet Hub to your Wireless router.

3) Insert the DC adapter into the Internet Hub and then plug into an AC outlet. The Power LED will stay on steadily.



DC Jack Ethernet Port

Insert DC Adapter and Batteries

PROGRAMMING THE INTERNET HUB

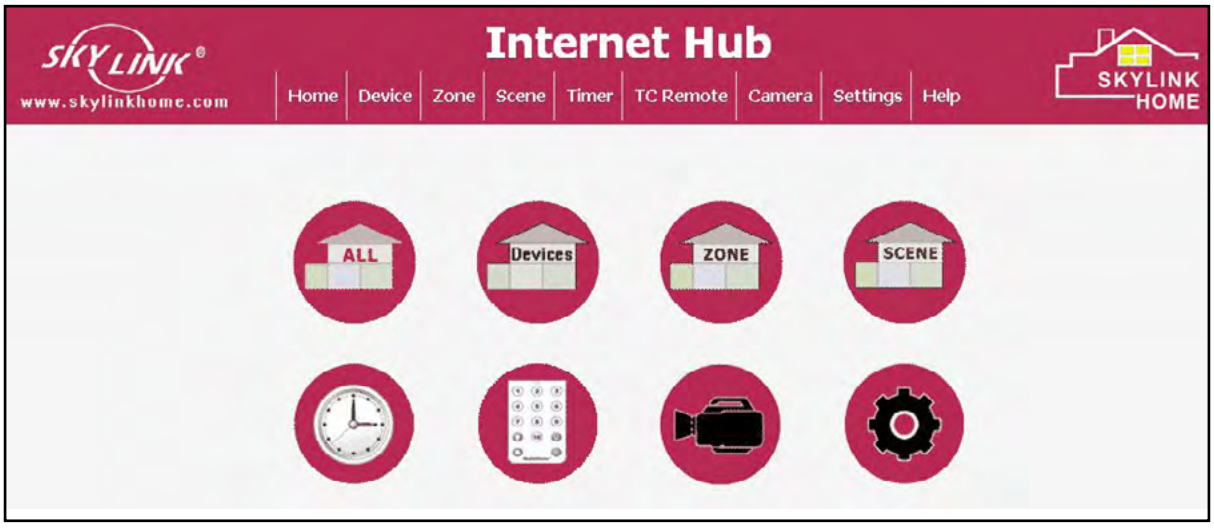
The Internet Hub includes a web graphics user interface (web GUI) which allows you to configure the Internet Hub using your web browser on your computer.

After you have connected the Internet Hub to your Wireless router and have applied power to the Internet Hub, write down the IP address shown on the LCD display of the Internet Hub, such as **192.168.001.199:8081**. Yours may be different from this.

Launch your web browser such as Internet Explorer, Google Chrome or Firefox to login to the Internet Hub. Key in the IP shown on the LCD display of your Internet Hub, e.g. http://192.168.001.199:8081. Or you may type in the default address http://hu:8081.

Default User name : **admin**
Default Password : **admin**

You will then see this screen:

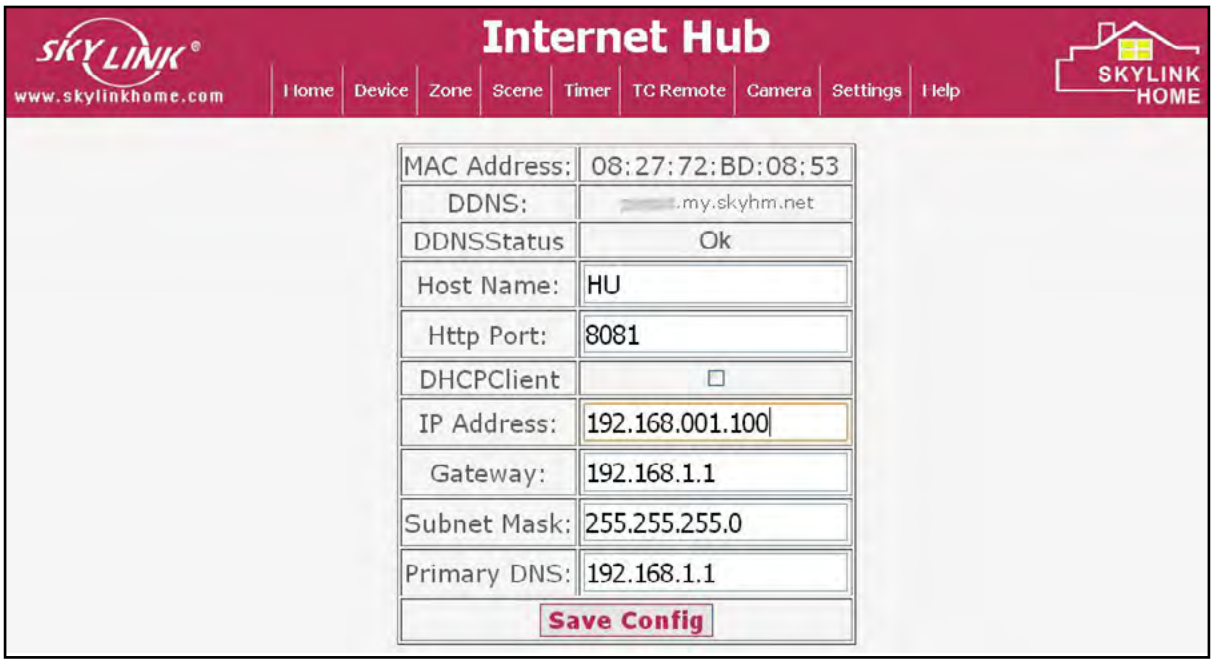


PROGRAMMING THE INTERNET HUB

By default, the Internet Hub is set to DHCP Client, which automatically obtains IP addresses from your router. However, in some instances you may want to assign static IP addresses to the Internet Hub to ensure convenient accessibility.

To assign static IP, Go to [Settings] and then [Network Settings].

1. The [DDNS Status] should show “Ok”. Write down the DDNS name: “nh007.my.skyhm.net” in this example (yours will be different) and Http Port: “8081” in this example.
2. Uncheck the [DHCP client] to disable the DHCP Client function.
3. Click [Save Config] to save the current setting.



To setup the Internet Hub to control SkylinkHome™ Wireless Modules, follow the steps below:

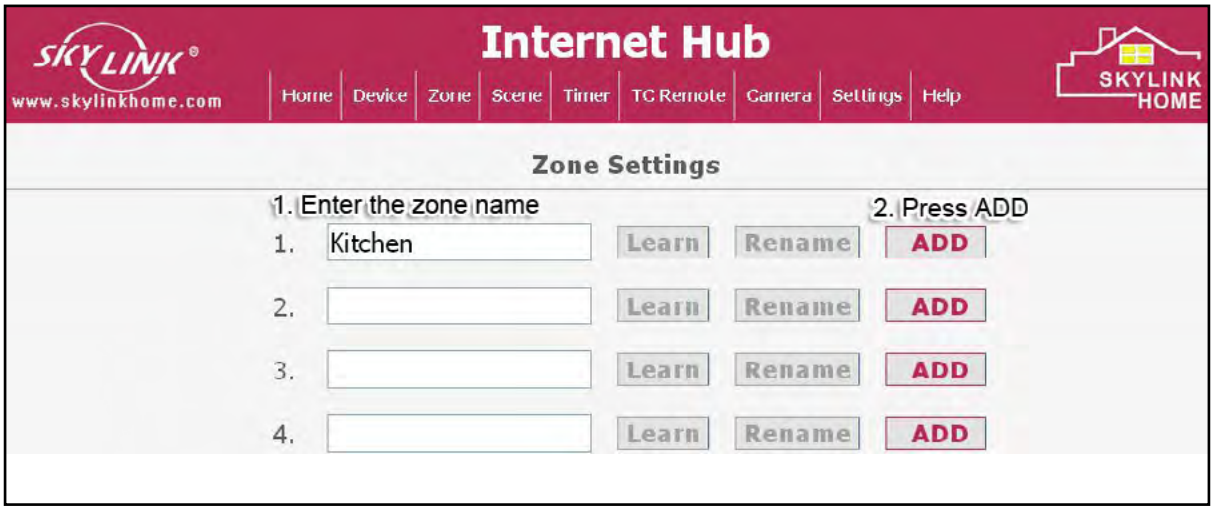
1. Assign different zones such as Kitchen, Bedroom, Family Room, Hallway etc.
2. Assign different devices in each zone, such as island lights, ceiling lights, pot lights, floor lamp etc.
3. Learn the assigned light to the Wireless Module

Assign Zones and Lights

1. Click the Zone icon or [Zone] in the toolbar. 

2. Click the [Settings] icon to change the name of the zone. 

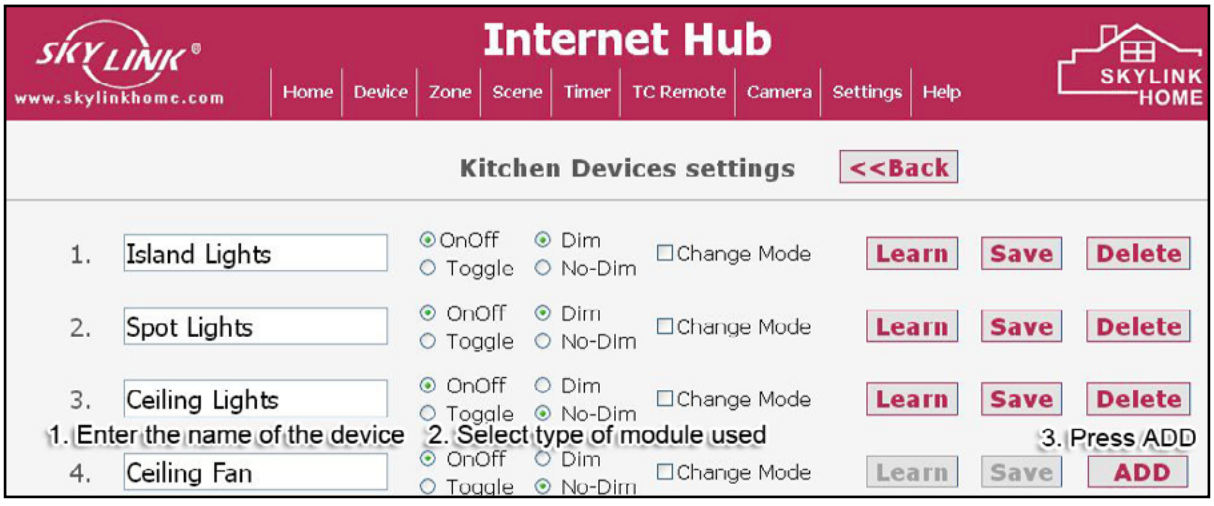
3. Enter the zone name, (e.g. Kitchen), then click [ADD].
   Repeat this step for all the zones that you plan to assign.



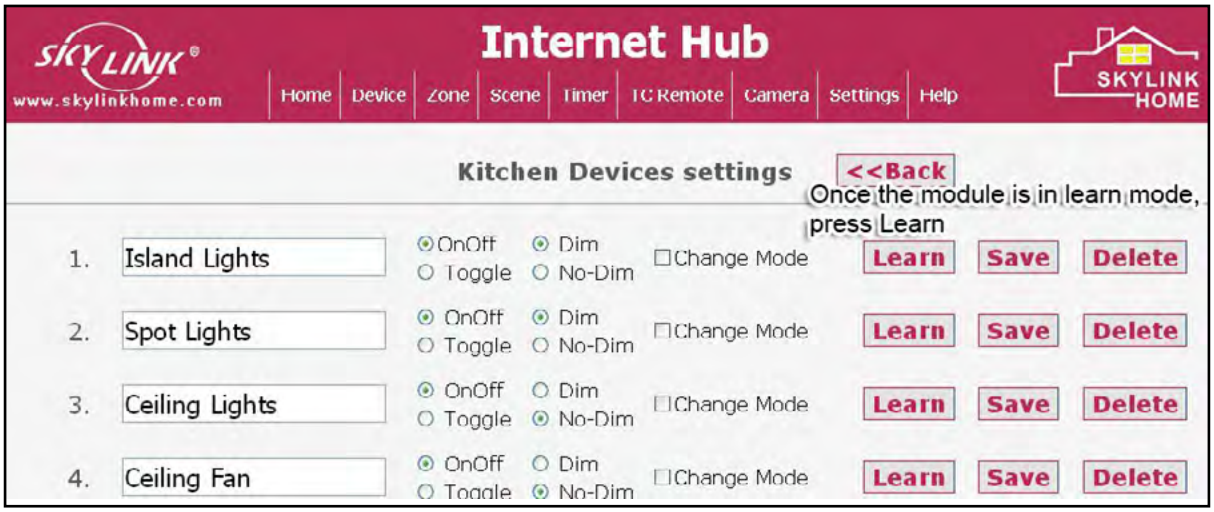
4. Click [Zone] on the top of the toolbar. Select the zone,
   e.g. [Kitchen] to assign different devices to this zone.

5. Click the [Settings] icon in the 'Kitchen Devices Control Page',
   and then assign different devices in this zone.

6. Enter the name of the device (e.g. Island Lights). Select the type of module
   controlled (On/Off or Toggle, Dim or Non-Dim) and then click [ADD].



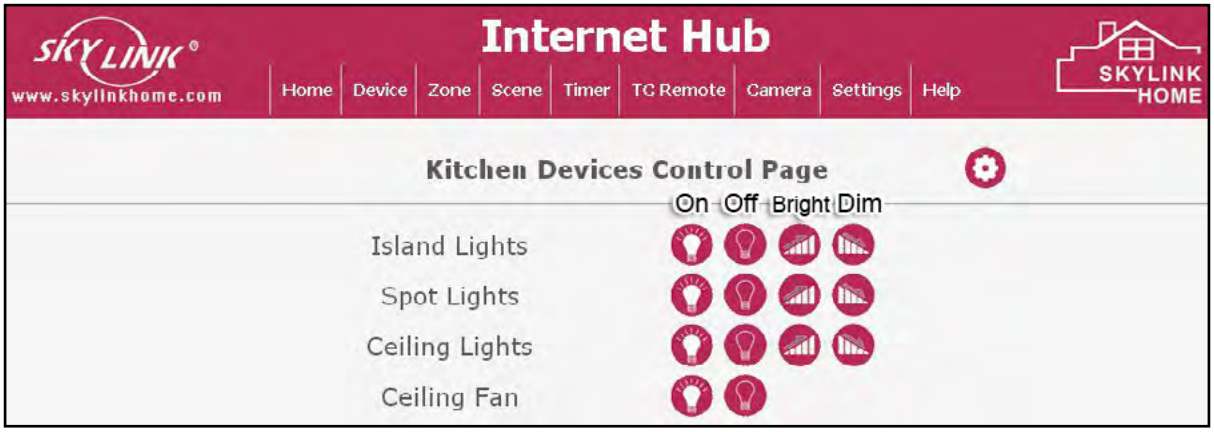
7. After you have assigned a name for each light or device, you may now learn the light to the Wireless Module. Refer to the User's Instructions of that specific receiver to put the unit into 'Learning' mode, then press the [Learn] button on the Internet Hub interface. The Signal LED will flash, then turn off on the Internet Hub indicating the 'Learn' code has been sent.



8. This light is now programmed to the Wireless Module.
   Repeat the same instructions to program the rest of the lights.

9. To operate the lights, go to the 'Zone Control Page'.
   For example, select [Kitchen] and choose the light you want to control.

10. Each light has 4 control buttons: On / Off / Bright / Dim

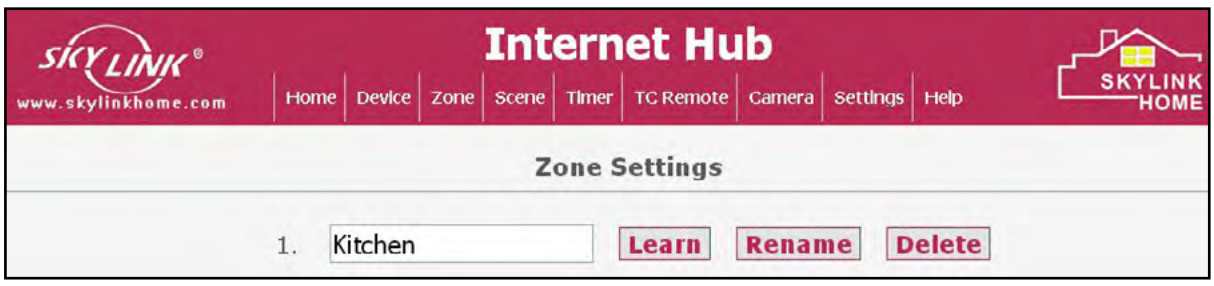


- Press the [ON] button to turn on that light.
- Press the [OFF] button to turn off that light.
- Press the [Bright] button to increase the brightness of that light.
- Press the [Dim] button to decrease the brightness of that light.

Note: To change the brightness, make sure the Wireless Module and the load (i.e. the light bulb) are dimmable.

11. You can setup a camera to view live images of this zone.
    Please refer to the 'Settings page' to setup a wireless camera.

12. To program the zone control, go to the Zone page and click [Settings].
    You will see the following screen. For instance, in the Kitchen zone, there are 4 lights. First put the Island Light Module into learning mode, then press the [Learn] button on this screen. Next put the Spot Light module into learning mode, then press the same [Learn] button on this screen again. Repeat this step for all the modules in the [Kitchen] zone.

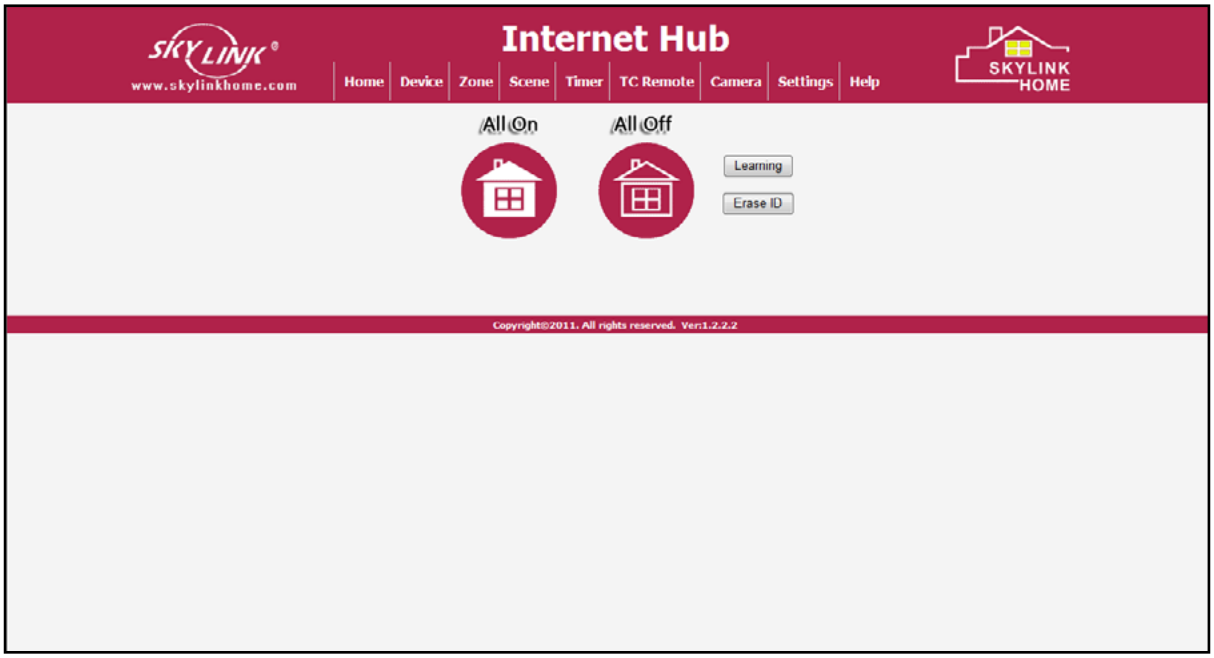


13. To operate the zones, go to [Zone].
    Each zone has 4 control buttons: On/Off/ Bright /Dim.

- Press the [ON] button to turn on all the lights in that zone.
- Press the [OFF] button to turn off all the lights in that zone.
- Press the [Bright] button to increase the brightness of all the lights in that zone.
- Press the[Dim] button to decrease the brightness of all the lights in that zone.

Note: *To change the brightness, make sure the Wireless Module and the load (i.e. the light bulb) are dimmable.*

1.To program the all control go to the Home page and click [All].
You will see the following screen:



2. Set your device into learning mode and press the [Learn] button on this screen

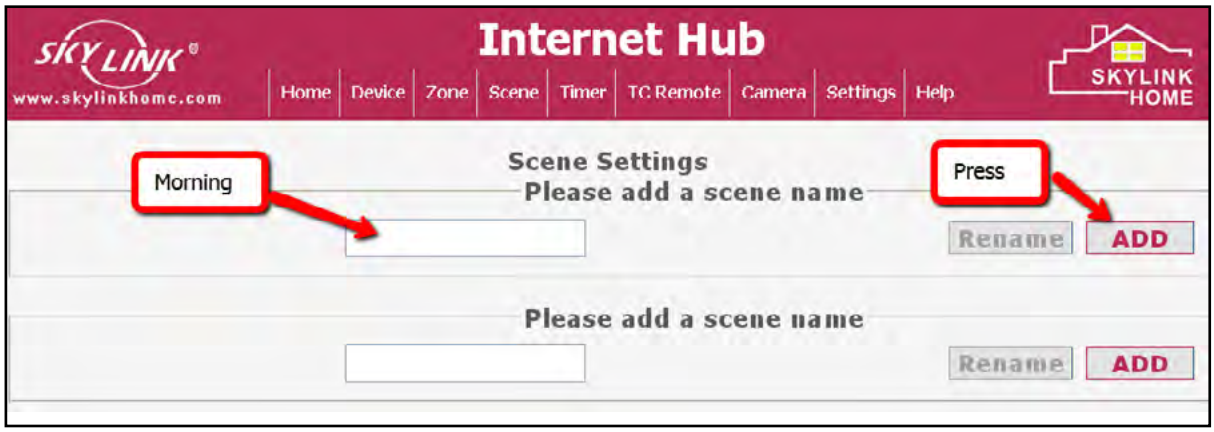
3. Repeat “step 2” for every device you want to control with the [All on/off] button.

The ‘Device’ shows you all of the lights which you have programmed.
You can control every light/device individually from this page.

Scene control can provide a specific brightness for multiple lights with the press of a button. Common scenes are the morning scene, the evening scene, the movie scene, etc.

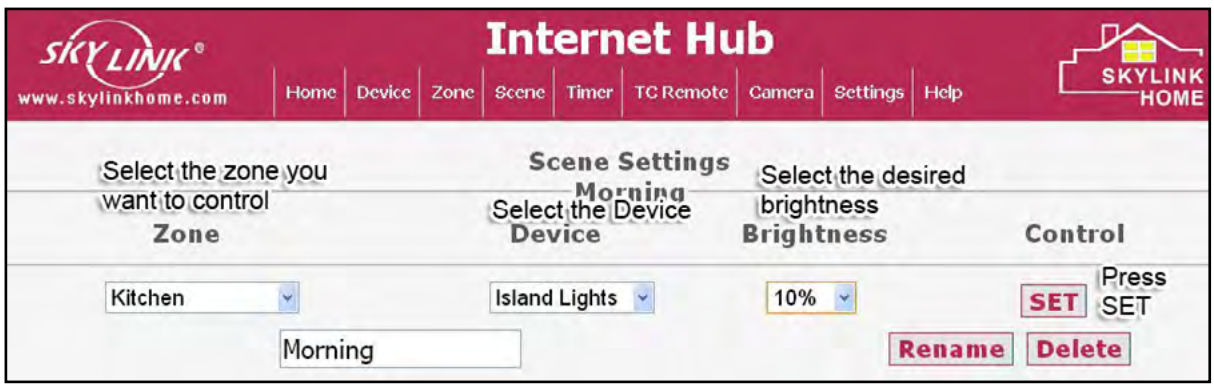
To setup a scene, click the [Settings] icon on the Scene control page.

1. Enter the Scene name (e.g. Morning), then click [ADD].
   Repeat this step for all the scenes that you plan to assign.

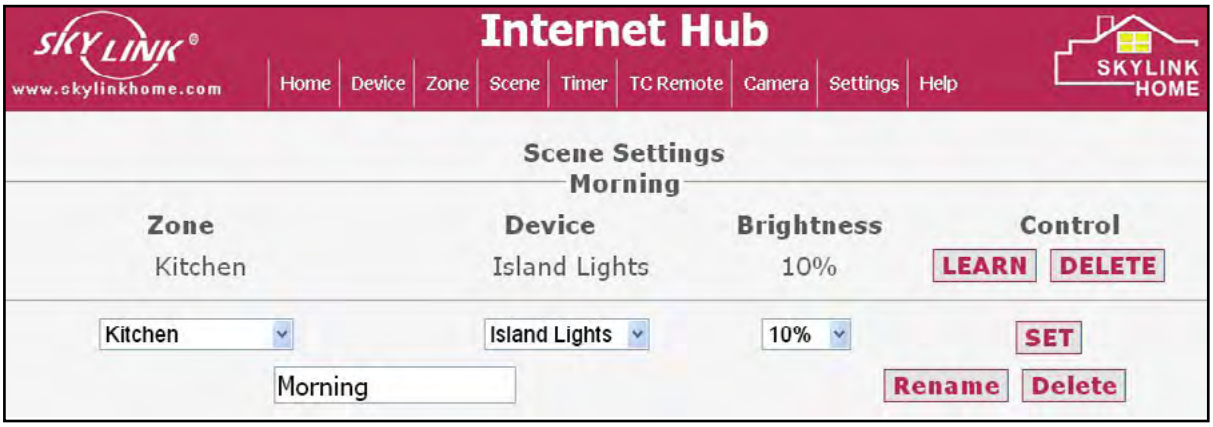


2. To specify an atmosphere for the scene, go to the [Scene Control] page and click [Settings]. You will see the below screen. For instance, in the Morning Scene, you want to set the Island Lights in the Kitchen zone at 10% brightness. Once you have selected all the desired settings, press [SET] button.

3. You may change the name 'Morning' to another name.
   After you input the new scene name, click [Rename] on the screen.



4. After setting the Zone, Light and Brightness, you now have to program this scene setting to the Wireless Module.

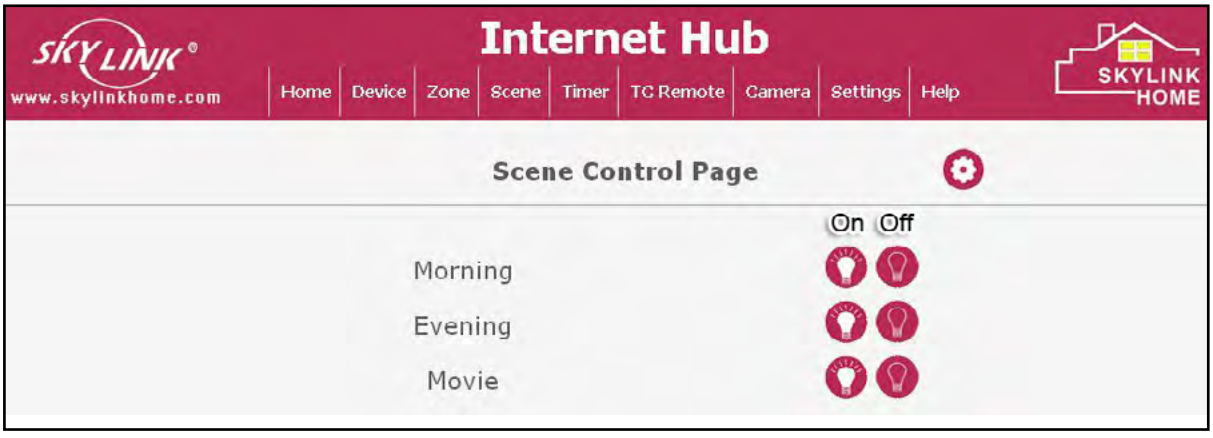


Refer to the User's Instructions of the Wireless Module to put the unit into learning mode. Once the Wireless Module is in learning mode, press the [LEARN] button on this screen to program this scene setting to the Island Light module.

You may continue to add more lights to this scene. Ensure each light you added to this scene has been programmed to the specific Wireless Modules.

You may now program another scene from the [Scene Settings] page.

Scene Operation



To turn on a scene, simply press the [ON] button. All lights programmed to that scene will be on at the preset brightness.

To turn off a scene, simply press the [OFF] button.

You may program up to 10 different timers to the Internet Hub. It will send a signal to control the desired devices at a pre-set time.

You may control the following:

- Turn a specific light on/off
- Turn a specific zone on/off
- Turn a specific scene on/off
- Turn all lights on/off

You need to set the time and the day of the week for when you want this action to take place.

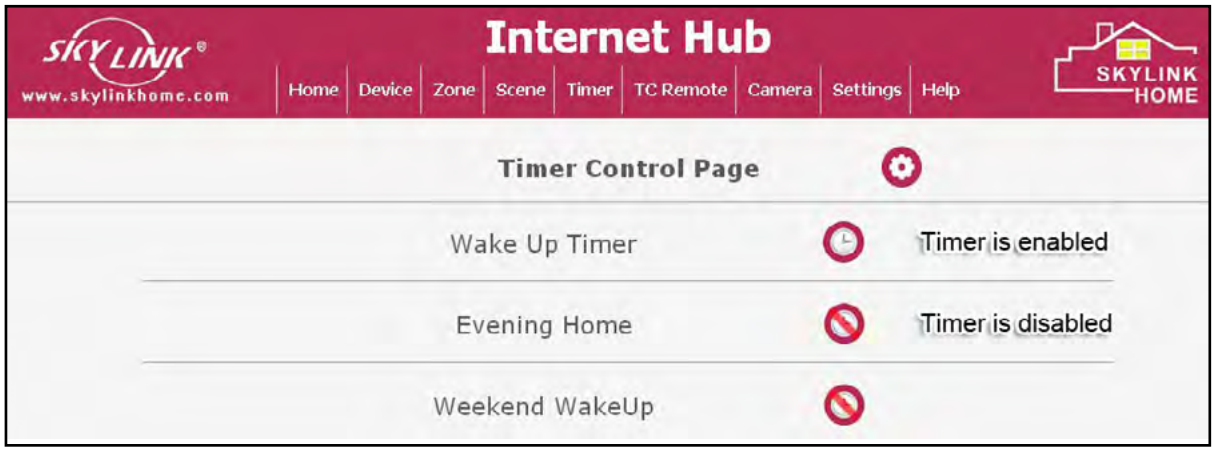
To assign a timer:

1. Click the [Timer] icon. You will see the following screen.
   Click the [Settings] icon on the Timer Control Page.

2. Scroll down to the bottom of the screen and you will see some fields where you can program the timer.

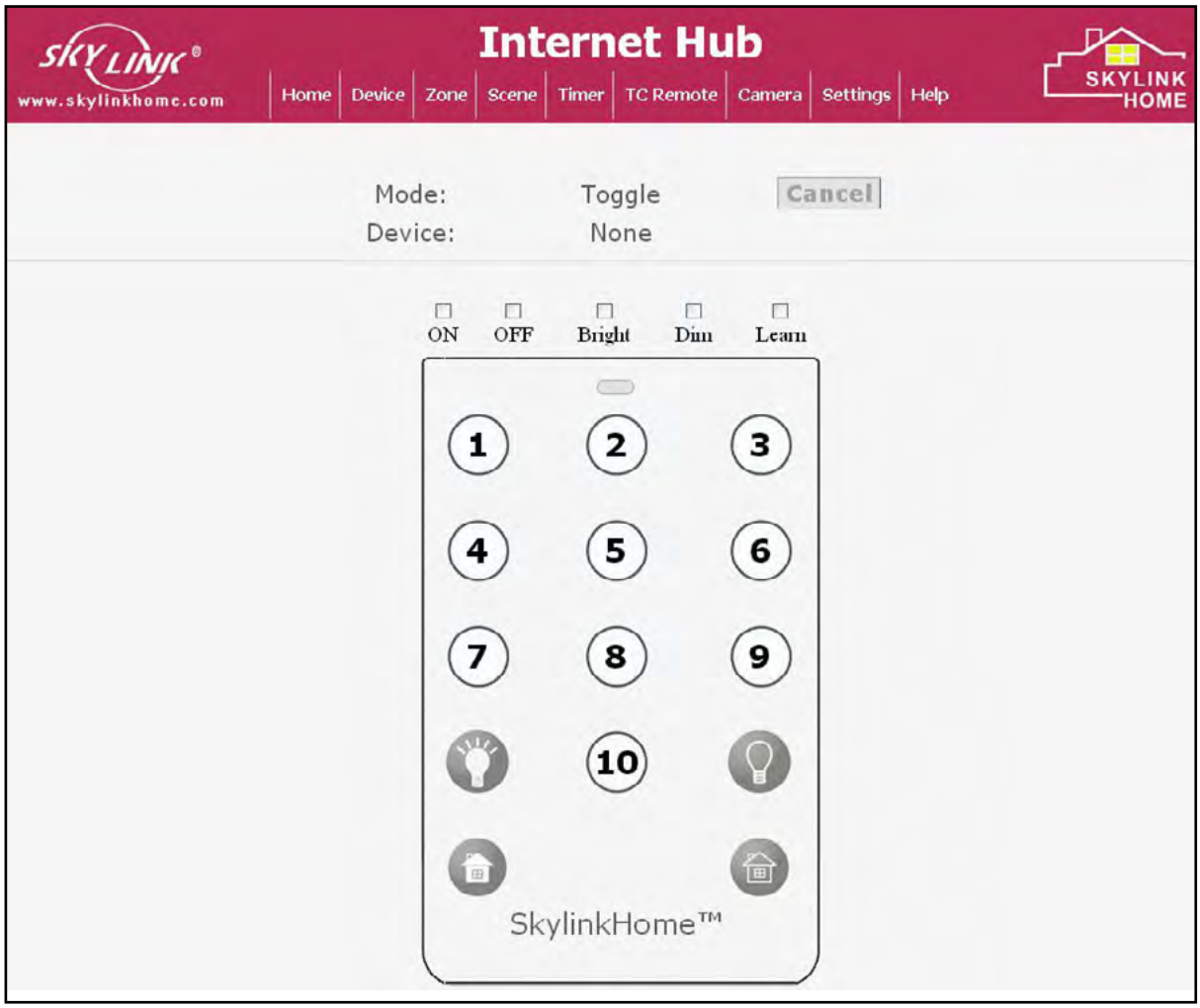
3. Select the timer no., name, zone/scene/all light, time, day of the week and whether on or off, then press the [SET] button. Once it is entered, the timer setting will show up on the screen.

4. To enable the timer, go to the Timer page. Click on the clock next to the Timer you want to activate. When there is no red bar across the clock, the timer is enabled.



This function allows the user to control all devices with the same interface as the SkylinkHome™ TC Remote Transmitter. Users that are familiar with the TC Remote Transmitter will find this interface very user friendly.

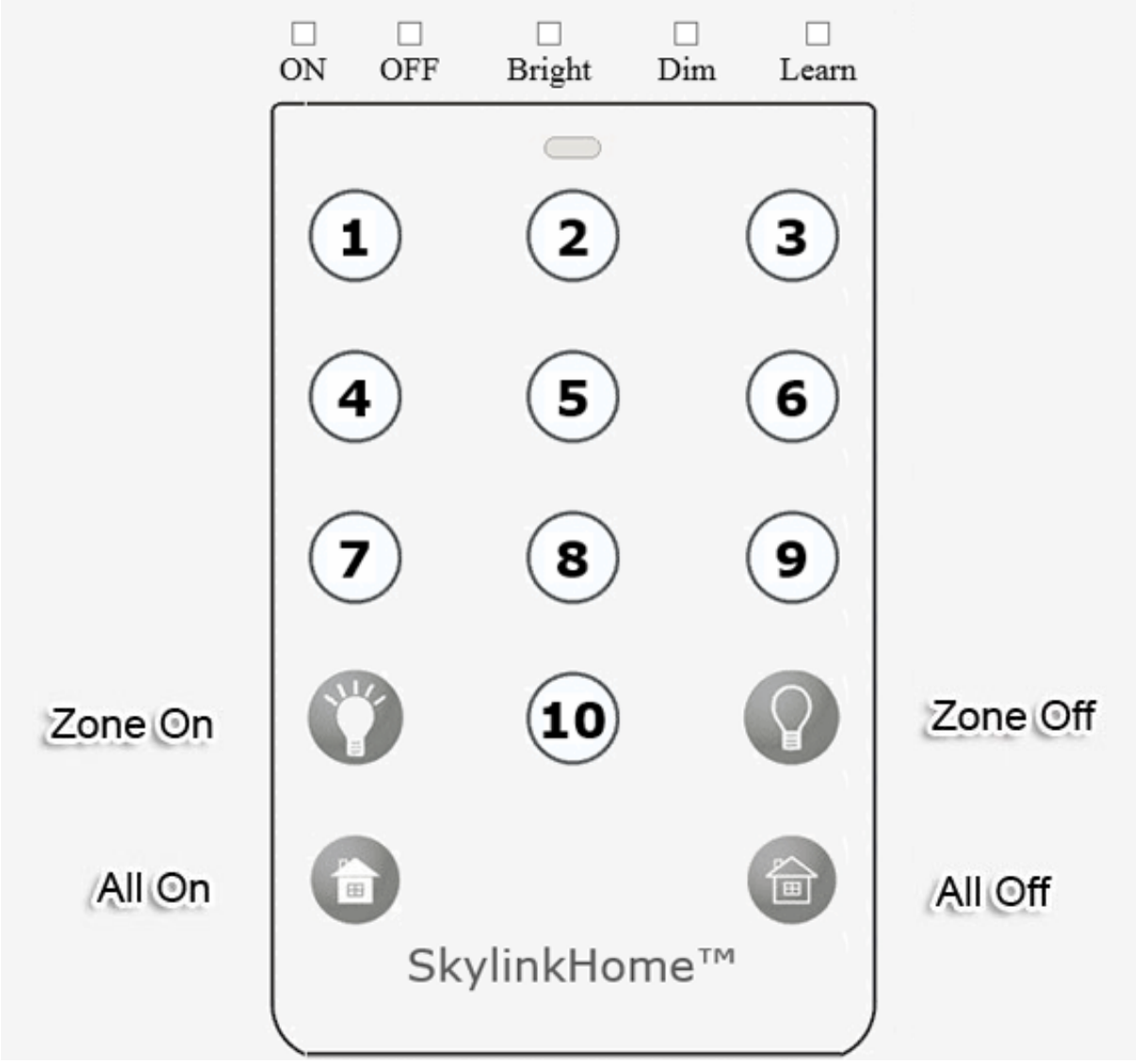
This layout is the same as SkylinkHome™ Model TC-318-14.



The buttons on the TC Remote Transmitter can be treated as a standalone control which is not related to any zone or devices assigned to the Internet Hub.

Program TC to Wireless Modules

1. Refer to the User's Instructions for the Wireless Module you have, in order to put the unit into 'Learning' mode.
2. Click the [Learn] box on the TC Remote page, then click the number button you want to control the Wireless Module with.. :
3. The Wireless Module should respond indicating this TC Remote button is now programmed. Follow the same learning instructions for the Zone command and All On/Off control.



Operation

Toggle Operation

Press buttons 1 -10 to turn on or off that specific load/module (toggle mode). Pressing the button when the load is off will turn on the load , and vice versa.

Designated On/Off

If you want to turn on a light upstairs while you are downstairs and do not know whether that light is already on, you may use the designated on/off buttons.

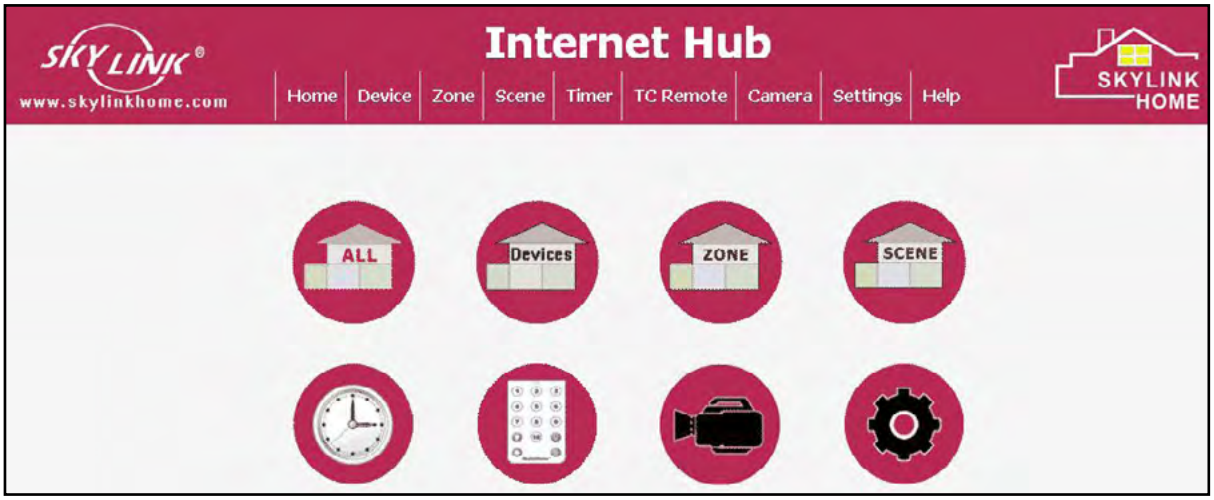
1. Choose the ON box above the TC Remote
2. Press the number button
3. This will send an ON command to that device
4. You may send an OFF command by first checking the OFF box, then the number button.

Dimming

To change the brightness of the load, select either the “Dim” or “Bright box”, then press the number button. Selecting the ‘Dim’ box will gradually diminish the light. Selecting the ‘Bright’ box will gradually increase the light.

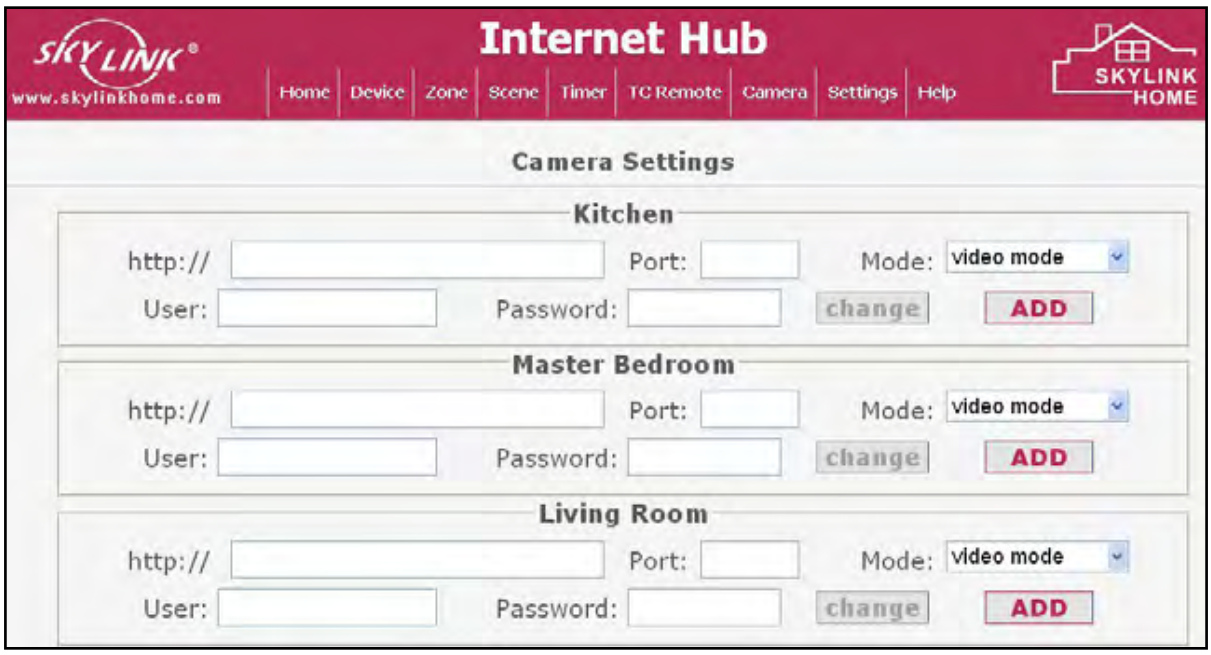
You may program one camera per zone. This camera provides live footage of that zone so you may see the response of each of your commands (i.e. turning on the light, dimming the light, opening of a door, etc) as they occur.

To setup the camera, Click the [Settings] on the top toolbar or click on the [System Settings] icon on the main page.



1. In the Settings page, click [Camera Settings] on the bottom of the page.

2. You may assign one camera to each zone



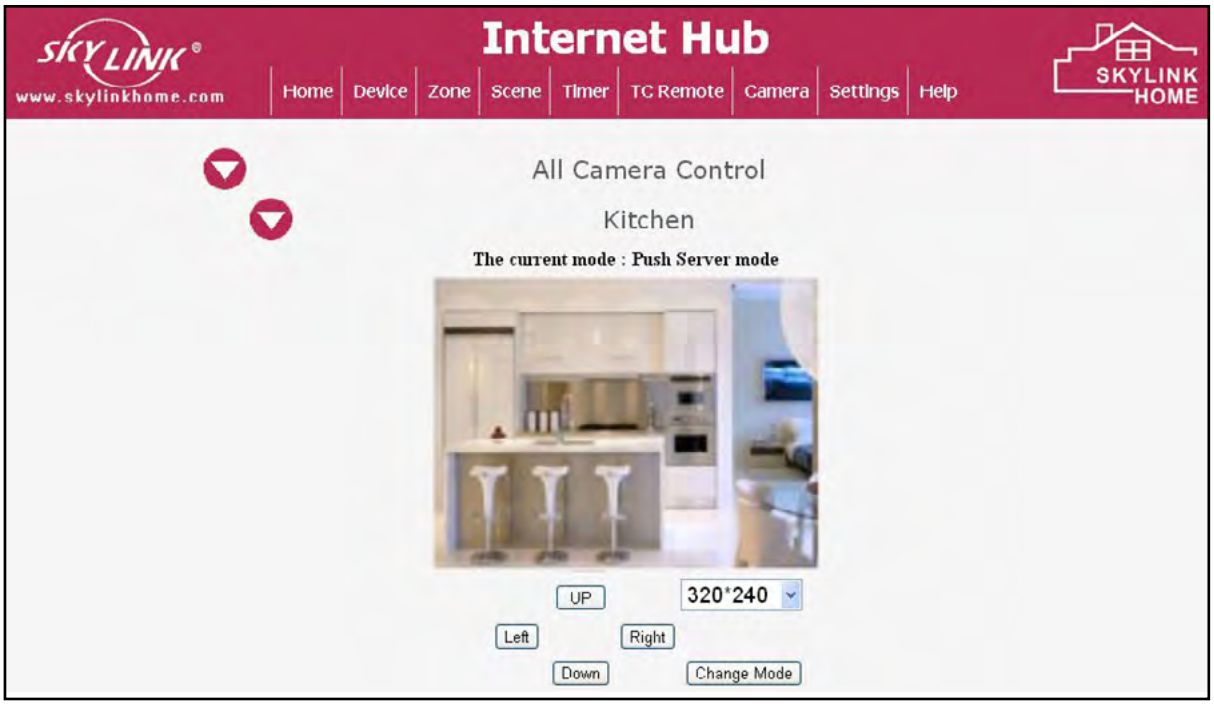
3. To display the camera in the zone, enter the following information:
   - IP address of the camera
   - Port of the camera
   - Mode (for SkylinkHome™ Wireless Camera, select F Series, Video Mode)
   - User Name – Login to the camera
   - Password – Login to the camera

After entering all the information, press the [ADD] button.

To view a camera, press the [camera] icon.

1. You will see all the cameras you have programmed.
2. Click onto the camera that you want to view or click on [All Camera Control] to view all cameras at the same time.

3. Once a camera is selected, it will show the live view of the camera.



4. Below the video image, you can see the up, down, left and right buttons. These buttons allow you to control the pan and tilt the angle of the camera.

5. If you are unable to view the live image properly, please press the [Change Mode] button and select the mode that allows proper video playback.

Settings allow you to set the following functions:

- Date and Time
- 4 Quick Access Buttons
- User Name and Password for different users
- Camera Settings
- Network Settings

Date and Time

Follow the format shown to input the current time, date. This information is used for the Timer operation.

4 Quick Access Buttons

The 4 physical buttons on the Internet Hub can be used to control 4 different commands. Assign the commands here.

1. Select the Button you want to use
2. Select zone, scene or all
3. Select the desired operation from the menu

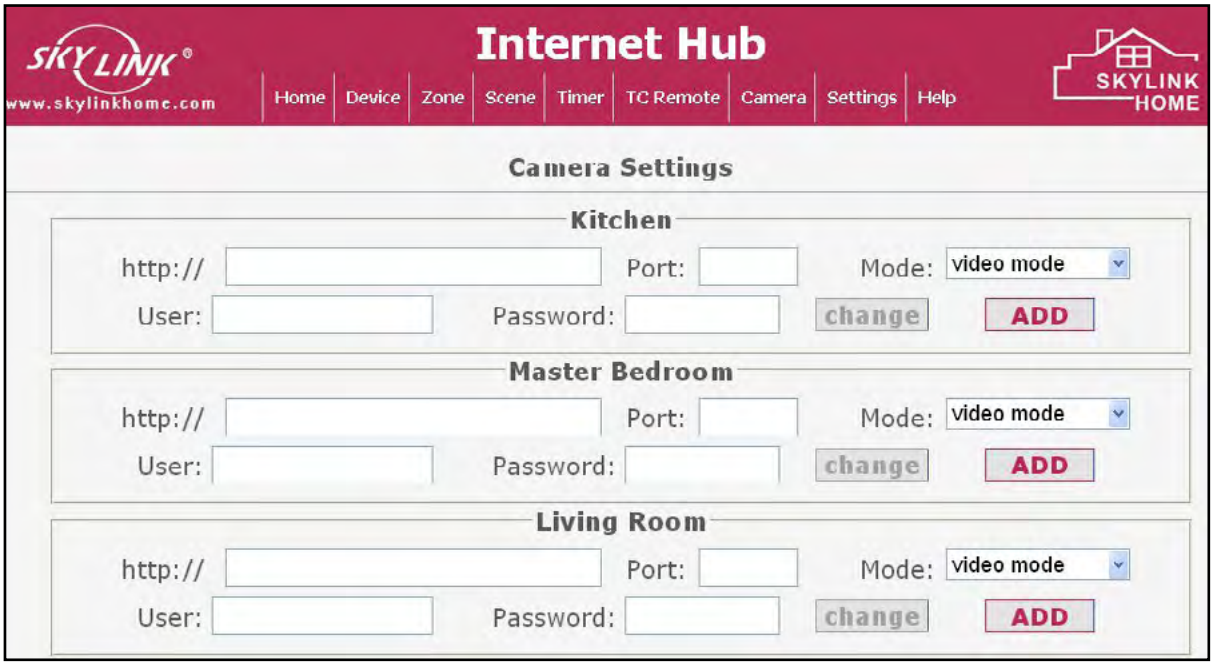
If a light is selected, it wil not show on/off. This light will be in toggle mode (i.e. if the light is on, pressing the button will turn off the light).

User Settings

You may assign up to 1 supervisor and 4 normal users. The Supervisor can change all system settings where normal users can only operate the Internet Hub without the option to change the settings.

Camera Settings

You may assign one camera to each zone.

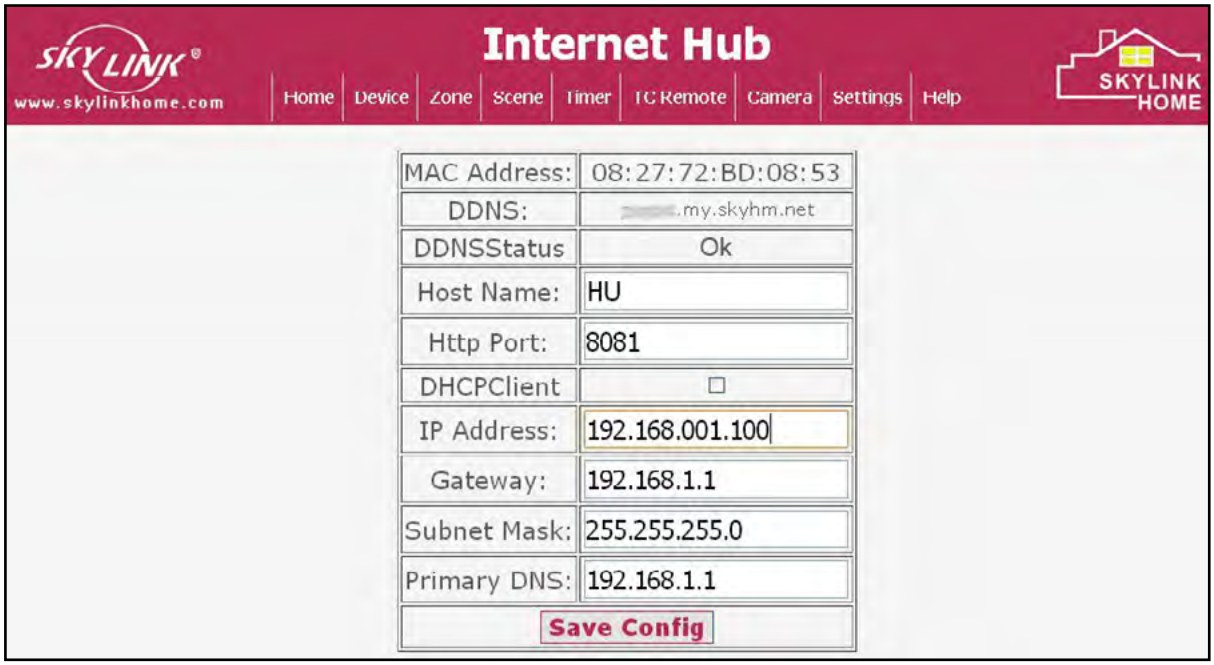


To display the camera in the zone, enter the following information:

- IP address of the camera
- Port of the camera
- Mode (for SkylinkHome™ Wireless Camera, select F Series, Video Mode)
- User Name – Login to the camera
- Password – Login to the camera

After entering all the information, press the [ADD] button.

Network Settings



Http Port:
Enter the access port of the Internet Hub. This is the port you need to setup in your Cable/ DSL router to access the Internet Hub.

MAC Address:
This is the MAC address of your Internet Hub.

Host Name:
Default Host Name is HU. You can enter this Host Name in your web browser as the address to access the Internet Hub, format will be: http://Host Name, in this case, it is http://HU:8081

DHCP client:
If DHCP Client is selected, the Internet Hub will assign an IP address to the client. The default setting is not selected.

IP Address / Gateway / Subnet Mask / Primary DNS / Secondary DNS:
Please refer to your existing Cable/ DSL router's settings for these variables.

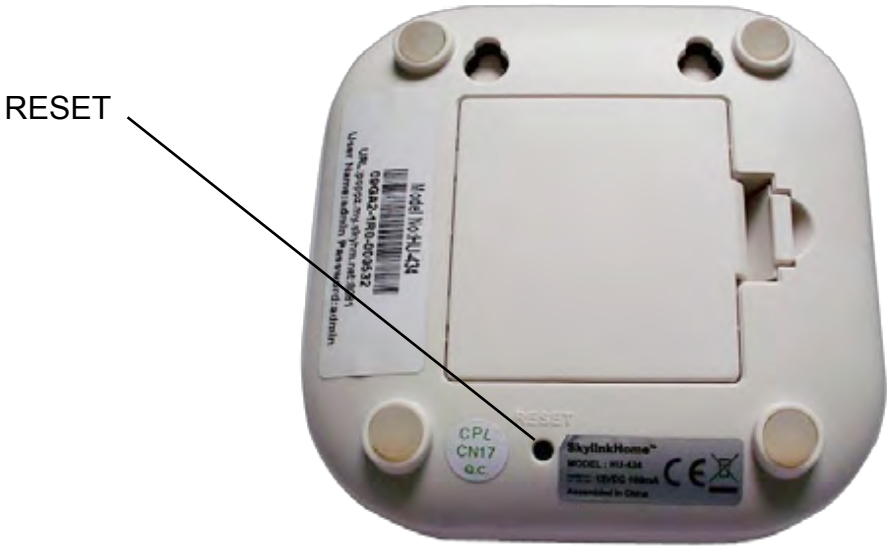
The installation of the Internet Hub is divided into two parts - Internal Access and Remote Access. Internal Access allows you to control the Internet Hub within the home network. Remote Access allows you to have control of the Internet Hub even when you are away from home. Always start with the Internal Access Installation first. After setting up the Internet Hub internally, you may proceed to Remote Access installation.

Refer to the Section 3 [PROGRAMMING THE INTERNET HUB] of this User's Manual for the Installation.

Resetting the Internet Hub

Please note the IP address should fall into the same subnet (192.168.1.XXX) of your existing network or Cable/DSL router. If this is not the case, you can reset the Internet Hub to factory default and try again or check whether the DHCP Server is enabled in your Cable/DSL router. Please refer to your Cable/DSL router User's Instructions for details.

1. Unplug the network cable before resetting the Internet Hub.
2. Press and hold the reset button located at the back of the Internet Hub for 5 seconds until the RF and Power LED indicator on the front are steadily on. The LCD should now show "Resetting..."



3. Shortly after a while the LCD should show the "Skylink" logo with a factory default IP address.
4. Plug in the network cable and go to the 'Programming the Internet Hub' instructions found under Section 3 of this User's Manual

Advanced Installation

Certain computer skill/knowledge is needed in this section.

If for any reason the Internet Hub cannot connect to your Cable/DSL router (IP address shown on the LCD does not fall in the same subnet of your router) you can still connect the Internet Hub directly to your computer. Please refer to the section 'Resetting the Internet Hub' to reset the Internet Hub before proceeding.

1. Plug in the network cable which connects the Internet Hub to your computer's LAN port (instead of the Cable/DSL router).
2. Change the IP address of your computer (192.168.001.10) to match the same subnet of the Internet Hub. *Example, "192.168.001.199:80".*
3. Login the Internet Hub using a web browser by typing the IP address and enter the user name and password provided.
   Example, http://192.168.001.199:80.

Go to [Settings] -> [Network Setting].

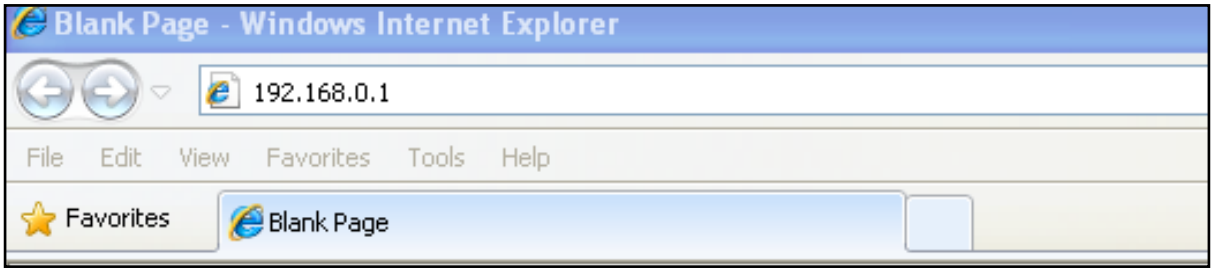
1. Uncheck the [DHCP client].
2. Enter an IP address (ex. 192.168.123.222) that belongs to the same subnet of your router.
3. Enter the IP address (ex. 192.168.123.254) of your router in the Gatewayfield.
4. Enter the Subnet Mask: 192.168.123.0
5. Enter the Primary DNS, which is the IP address (ex. 192.168.123.254) of your router.
6. Enter a Http Port. 83 in this example.
7. Press [Save Config] button to save the current settings.
8. Unplug the network cable from your computer and reconnect your computer's LAN port like it was before.
9. Plug in the network cable which connects the Internet Hub to your Cable/DSL router.
10. You should now be able to access the Internet Hub by typing the IP address (ex. http://192.168.123.222:83) into a web browser.

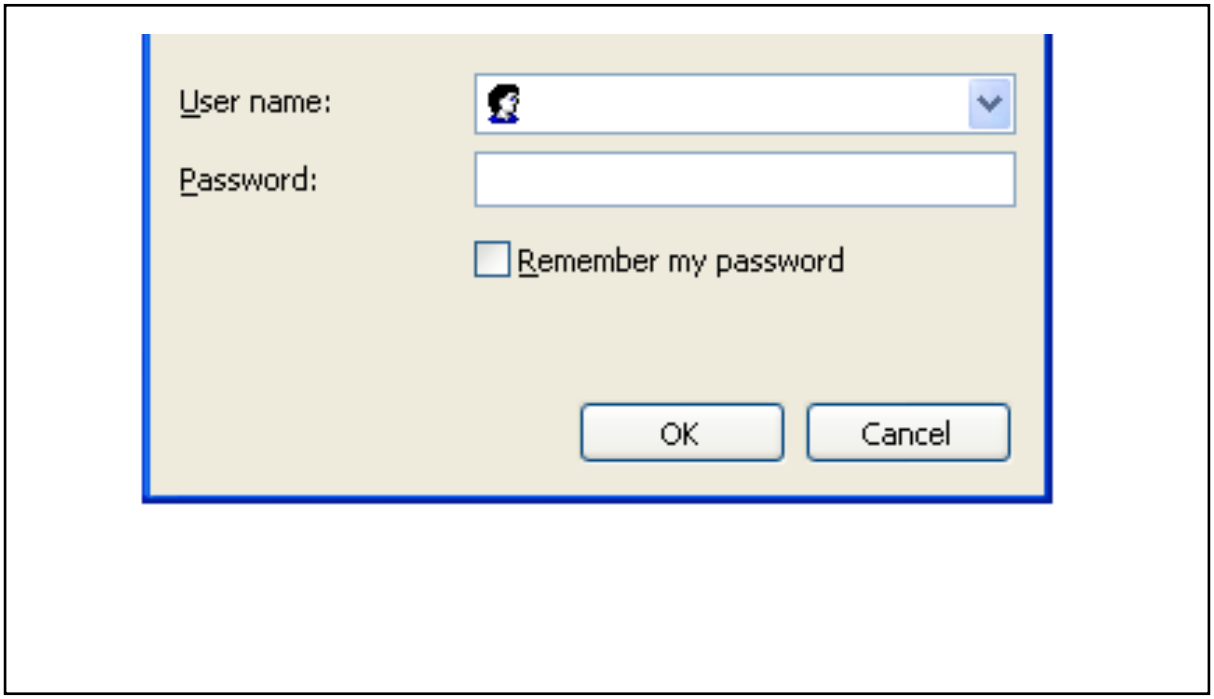
Cable /DSL Router Settings - Port Forwarding / Virtual Server

Below are a few examples of Port forwarding/Virtual Server Settings of different routers for your reference. Please refer to your Cable/DSL router manual for adding a port forwarding entry.

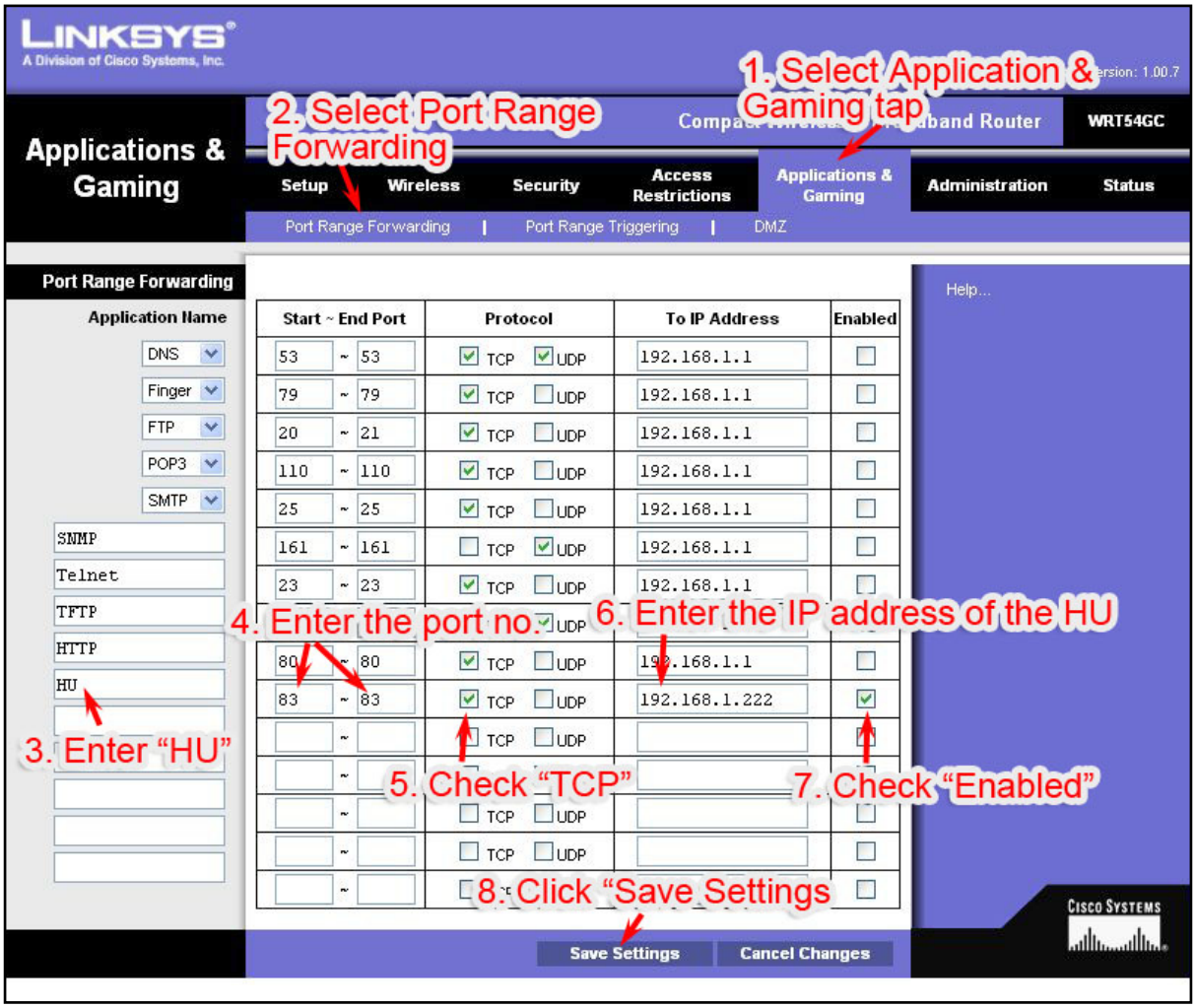
After adding the port forwarding entry in the router, you may now access the Internet Hub remotely.

To access your router, open a web browser such as Internet Explorer and enter your current IP address of the router (ex. http://192.168.0.1) or refer to the manual of the router for details. Follow the on-screen page or the wizard page to enter your current login name and password.





Refer to your Cable/DSL router manual for adding a port forwarding entry



FCC/IC

FCC

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.

WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

IC

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARRANTY

WARRANTY

If, within one year from date of purchase, this product should become defective (except battery), due to faulty workmanship or materials, it will be repaired or replaced, without charge. Proof of purchase and a Return Authorization are required.

CUSTOMER SERVICE

If you would like to

- find out the up-to-date specifications
- know more about features and applications
- download documents, i.e. user's instructions
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ADDRESS

17 Sheard Avenue,
Brampton, Ontario,
Canada L6Y 1J3
Email: sales@skylinkhome.com
skylinkhome.com

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