D-Link®

User Manual

mydlink™ Wi-Fi Motion Sensor

DCH-S150

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.10	August 15, 2014	• Revised QR code setup section

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Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. If it is not needed during certain periods of time, it can be unplugged to save energy.
Network Standby: 1.34 watts

Table of Contents

Product Overview
Package Contents

DCH-S150 mydlink™ Wi-Fi Motion Sensor

Quick Install Card

Quick Installation Guide

If any of the above items are missing from your package, please contact your reseller.

System Requirements

General Requirements	• Wireless router with Internet Service • An available power outlet
Mobile Requirements	• iPhone, iPad, or Android smartphone or tablet[1]
mydlink Requirements	• For mydlink and mydlink app requirements refer to: **http://www.mydlink.com**

[1]Please refer to the mobile app's store page to check whether your device is compatible.

Introduction
Features

Use Motion Detection to Automatically Turn on Your Appliances

The DCH-S150 mydlink™ Wi-Fi Motion Sensor is a portable plug-in PIR motion detection device that lets you automate appliances such as desk lamps attached to Smart Plugs in your home network. Tiny yet powerful, the DCH-S150 introduces you to the world of home automation in a device that fits in the palm of your hand.

Compact, Convenient Design

The DCH-S150's compact design is ideal for use at home or a small office, as it saves space and is ready to use by simply plugging it in. The device's small form means it can easily be plugged into a power outlet without blocking other outlets while its case design saves you the hassle of dealing with a power cord. Its sleek, unobtrusive appearance means it blends easily into the background.

mydlink™ Home

Manage your motion sensor and connected appliances by using the mydlink™ Home app available for iPhone®, iPad®, and iPod touch® and Android™ devices. Its intuitive user interface and simple instructions lets you easily manage your automated devices from wherever you are.

Simple Setup

Through its easy-to-use mydlink™ Home app, you can quickly and easily connect the DCH-S150 to an existing network. The setup wizard will even guide you through the setup process, so you can get your home automation devices up and running in no time.
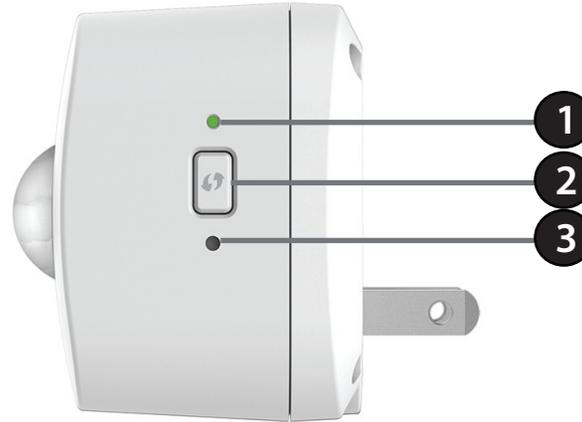
Hardware Overview
Front/Top

1	Motion Sensor	This sensor will detect motion and trigger actions to other devices.

Hardware Overview
Side and Bottom

1	**LED**	Solid Green	The device is connected to the network
		Blinking Green (slow)	WPS is working
		Blinking Green (fast)	PIR is detecting motion
		Blinking Orange	The device is not connected to the network
		Solid Red	• The device is powering on • The firmware is being upgraded • The device is defective
		Light Off	The device is powered off
2	**WPS Button**	Pressing the WPS button for 1 second allows you to connect with Wi-Fi clients using Wi-Fi Protected Setup	
3	**Reset Button**	Pressing the reset button for 10 seconds will reset the DCH-S150 to the factory default settings	

Wireless Installation Factors

The mydlink™ Wi-Fi Motion Sensor lets you automate appliances using your existing wireless network. Keep in mind, however, that 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. Keep the number of walls and ceilings between the extender and other network devices to a minimum - each wall or ceiling can reduce your adapter's range by up to 98 feet (30 meters). Position your devices so that the number of walls or ceilings is minimized.

2. Be aware of the direct line between network devices. At a 45-degree angle, a wall that is 0.5 meters thick (1.5 feet) appears to be almost 1 meter (3 feet) thick. At a 2-degree angle it can appear over 14 meters (45 feet) thick! Position 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 have a negative effect on range. Try to position access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete can degrade your wireless signal.

4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.

5. If you are using 2.4 GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone in not in use.

To install your DCH-S150, first download and install the mydlink™ Home app on your mobile device. This app will walk you through installing and configuring your DCH-S150.

Step 1:

Download the **mydlink™ Home** app from the App Store (iPhone, iPad, or iPod touch) or Google Play (Android).
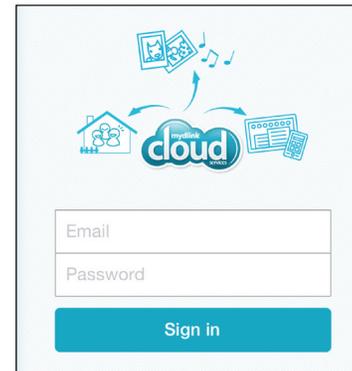
Step 2:

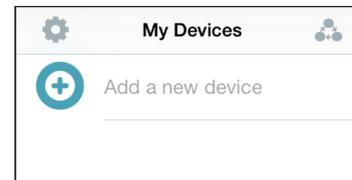Once the mydlink™ Home app is installed, launch the app and follow the on-screen instructions.

Step 3:

Log into your mydlink account. If you don't have one, sign up for a free mydlink account by clicking the **Sign Up!** link.

Step 4:

The My Devices page will appear.

Tap **Add a new device**.

Step 5:

Tap **Scan** to scan the QR code on the Quick Install Card.

OR

Tap **Skip QR Code,** select your device from the drop down menu and proceed to Step 6.
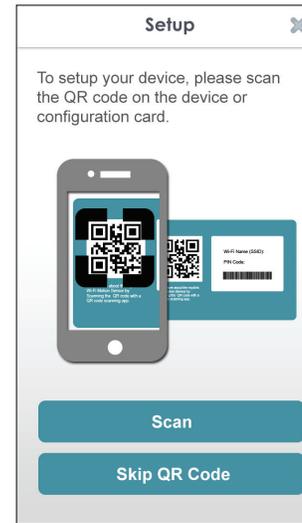
OR
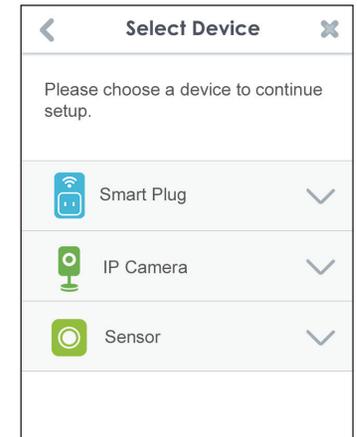
Step 6:

Plug your DCH-S150 into an available outlet. Power on your device then tap **Next** to continue.
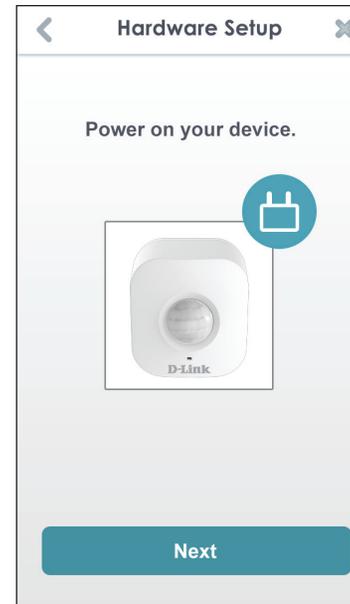
Step 7:

When the Status LED is blinking orange, tap **Next** to continue.
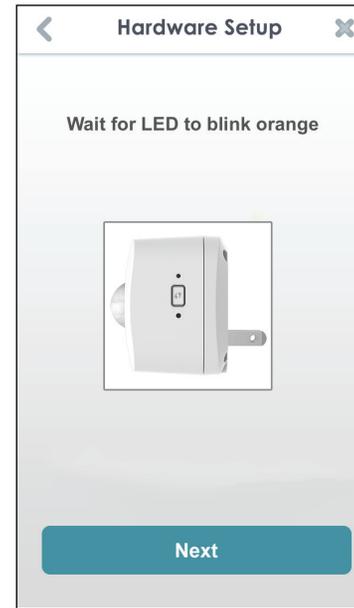
Step 8:

If your router supports WPS, press the WPS button on your router. Tap **WPS**.

Note: *Refer to your router's documentation if you are not sure if your router supports WPS.*

If your router does not support WPS or you want to manually connect to your wireless router, tap **Manual**.

Step 9:

WPS

If you tapped **WPS** and pressed the WPS button on your router in the previous step, now press the WPS button on your DCH-S150. The Status LED will start to blink green. Allow up to two minutes to connect to your router. Tap **Next** to continue.

Note: *You must press the WPS button, first on your router and then on the DCH-S150, within two minutes.*

After about two minutes, the Status LED will turn solid green. This indicates that the DCH-S150 has successfully connected to your wireless router. Tap **Next** to continue.
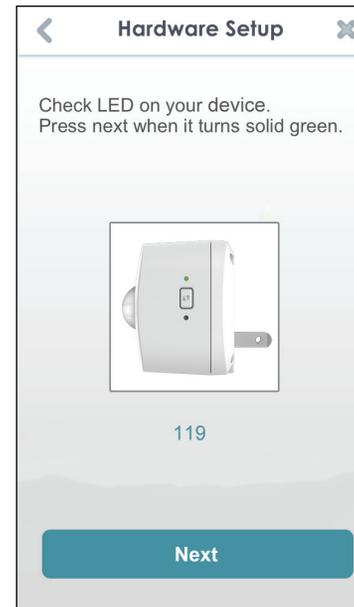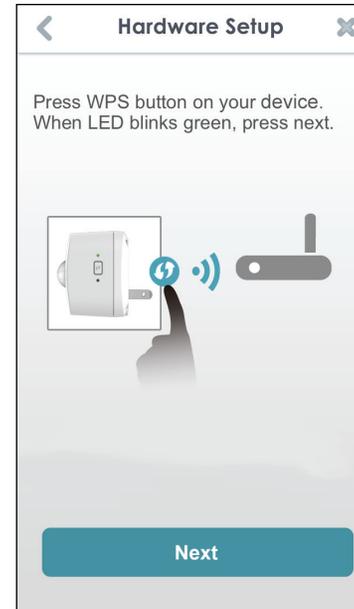
Manual Setup

If you tapped **Manual** in Step 8, you must connect to the DCH-S150 directly. Do not close this app.

On your device, go to **Settings > Wi-Fi**. Select the network called **DCH-S150-*xxxx*** (where *xxxx* is the last 4 digits of the MAC address).
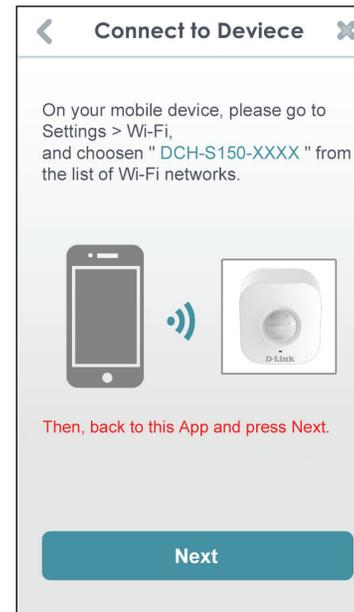
Note: For the exact network name (SSID), refer to the Quick Install card that came with the product.
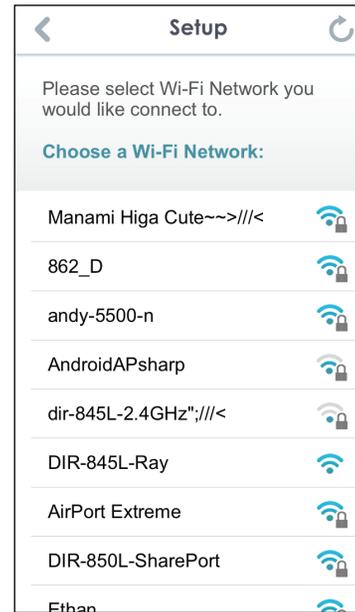
Tap **Next** to continue.

The app may ask if you wish to connect to your current Wi-Fi. Tap **Yes** or **No**.

Enter the PIN code and tap **Next**.

This code is located both on the back of the DCH-S150 and the Quick Install card.
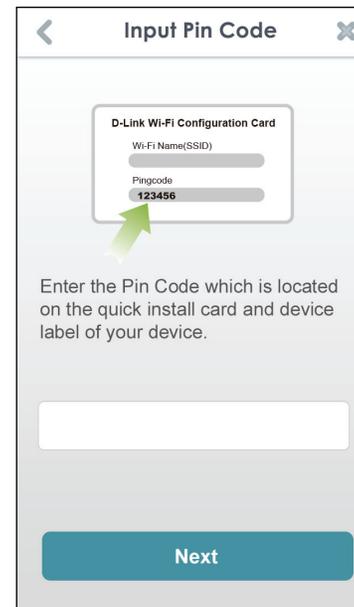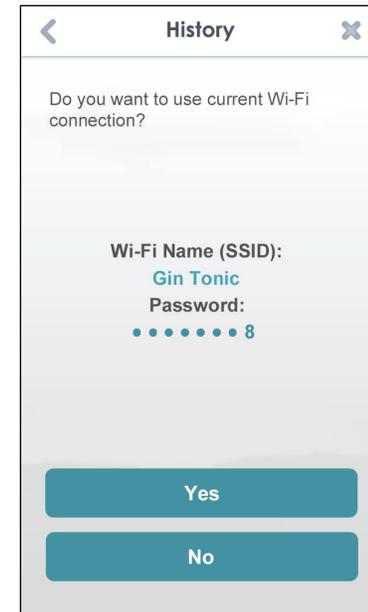
A list of discovered wireless networks will appear. Select your wireless network by tapping your wireless network name (SSID).

If your wireless network requires a password to connect, enter it at the prompt and tap **OK**.
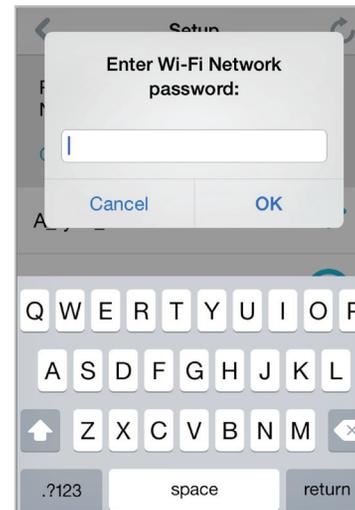
Step 10:

Once you connect, you will need to connect to your mobile device or tablet (that you are currently running the app from) to your wireless router (if you are not already). Make sure you keep this app running.

On your device, go to **Settings > Wi-Fi**. Connect to your wireless router and enter your Wi-Fi password (if you have one).

Come back to this app and tap **Next** to continue.

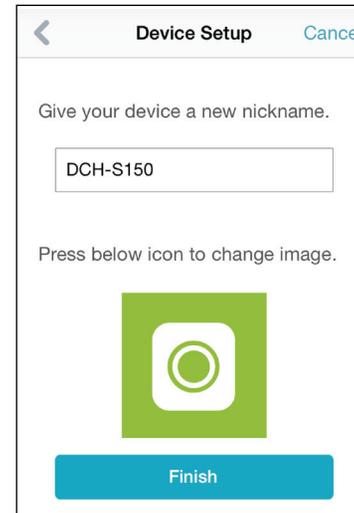Your device will now scan your network for your DCH-S150.
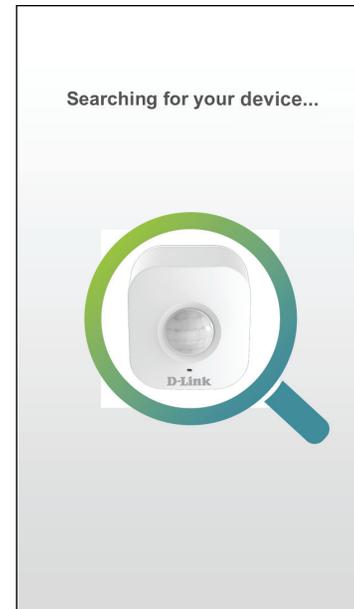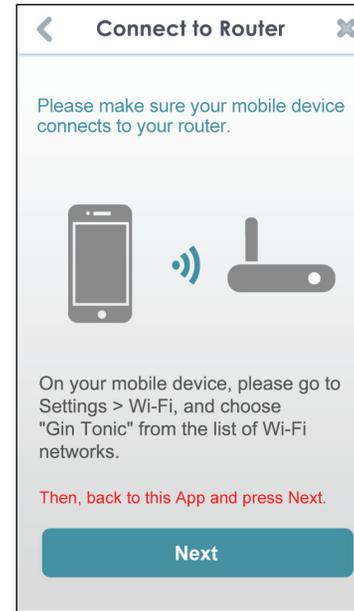
If you receive this error message, please do the following:
1. Make sure your mobile device is connected to your router.
2. Make sure the Power LED on your DCH-S150 is solid green.
3. Tap **Check Hardware Settings** and verify the settings.
4. Tap **Search Again** to rescan.

No device found

Please make sure your mobile device is connected to your router.

Check Hardware Settings

Search Again
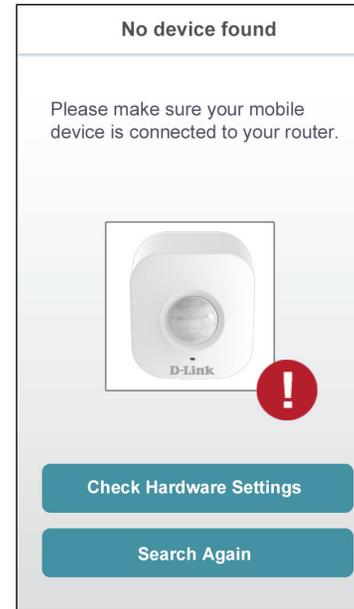
Step 11:

Enter a nickname for your DCH-S150. Tap on the icon below if you want to change the icon for your device. Otherwise tap **Finish**.

Device Setup   Cancel

Give your device a new nickname.

DCH-S150

Press below icon to change image.

Finish

If you tapped the icon in the previous step, select a new icon to represent the device. If you do not want to change the icon, tap **Cancel**.
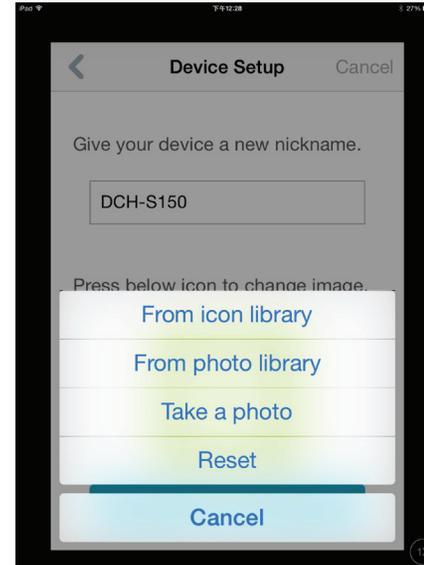
The mydlink™ Home app is now set up and ready for use.

mydlink™ Home
My Devices

Tapping the DCH-S150 under the My Devices page will take you to the device's settings.

Motion Detection: Enable or disable motion detection.

Last Detection: Displays the last time the sensor detected motion.

Sensitivity: Adjust the motion sensitivity of the sensor.

**Schedule:** Choose or set up a schedule for the device.

Information: This page will show detailed information about the product and your network. You can also perform a factory reset here by tapping **Reset**.
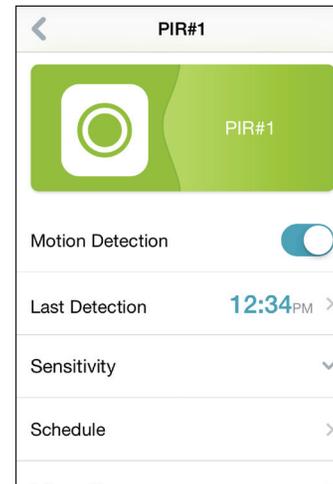
Schedule

You can customize schedules for when your DCH-S150 will be active in this section.

There are two types of schedules you can configure: **Repeat** and **Customize Rule**.
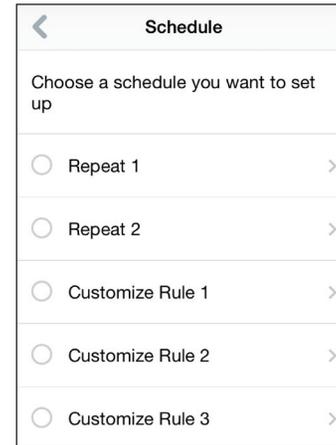
Tapping **Repeat** will take you to the next page where you can select the active days, **Start** and **End time**, and **Frequency** (or duration) that the device will be active. This type of schedule is suited for schedules using the same Start and End times and Frequency.

After the schedule is set, go back to the previous page and tick the radio button next to the rule to activate it.
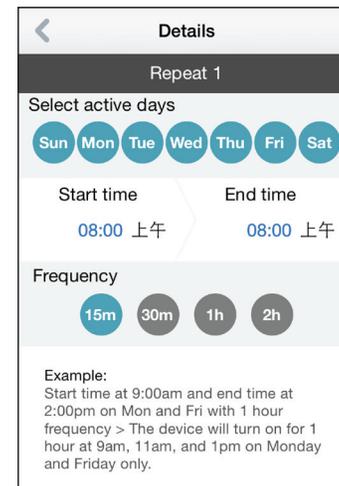
Tapping **Customize Rule** will take you to the Details page where you can select different days and times that the device will be active in a table. Simply tap and drag the bars in the table to adjust the times. Tap **x** to delete a specific time.

After the schedule is set, go back to the previous page and tick the radio button next to the rule to activate it.
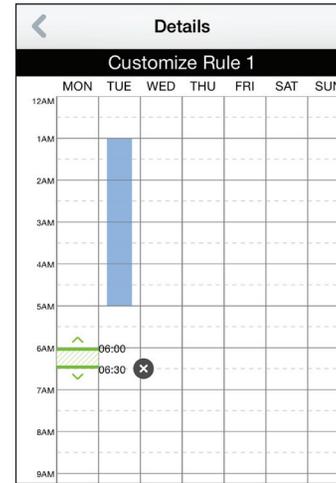
Information

This page shows your product and related network details.

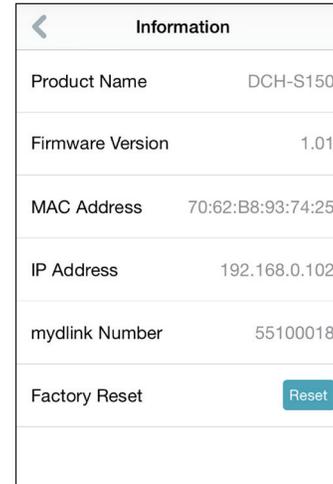**Product Name:** Displays the product model.

Firmware Version: Displays the version of the firmware.

MAC Address: Displays the MAC address of the device.

IP Address: Displays the IP address of the device.

mydlink Number: Displays the mydlink number of the device.

**Factory Reset:** Tap **Reset** to perform a factory reset.

| Information	
Product Name	DCH-S150
Firmware Version	1.01
MAC Address	70:62:B8:93:74:25
IP Address	192.168.0.102
mydlink Number	55100018
Factory Reset	Reset

My Actions

This page lets you add and enable/disable rules which execute actions such as notifications when your DCH-S150 detects motion. Tap ⊞ to switch between pages.
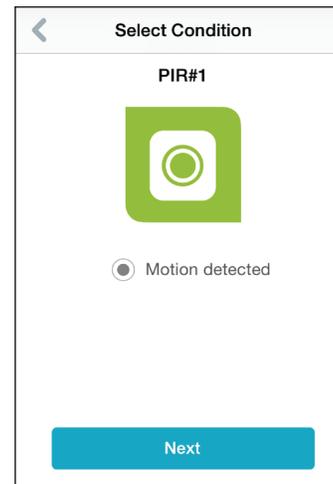
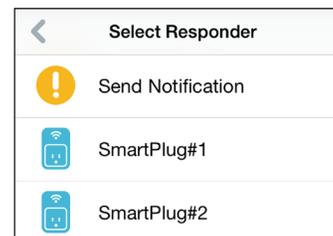1. To add a new rule for you device, tap on **New rule**.
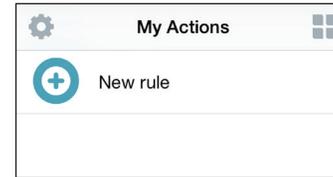
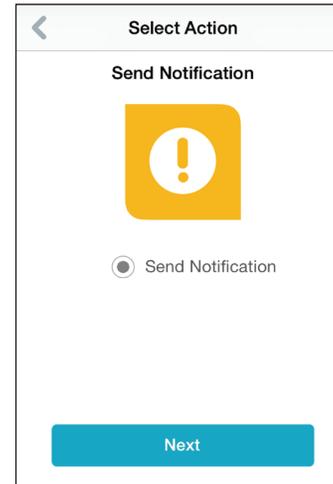2. Tap on the device you want to trigger with the rule.
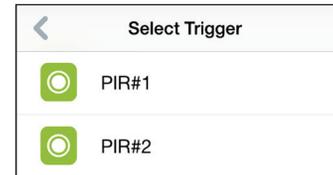
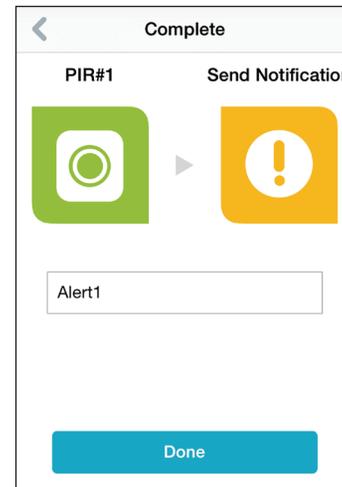3. Select from the available conditions for this device and click **Next.**

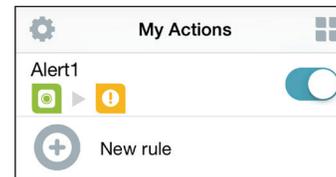4. Select from the available responders for this device.

5. Select from the available actions for this device. Tap **Next.**

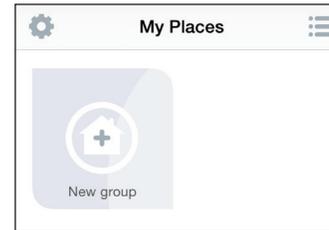6. In the text box, type in a name for this rule and tap **Done.**

7. You will be taken back to the My Actions page and you can now enable and disable your rule from this page.

My Places

This page lets you add devices into a group so you can easily see which devices are in a particular location.

1. To create a group, tap **New group**.

2. On the New Group page, tap the icon to choose an icon or photo for the group. Tap next to it to enter a name for the group. Then tap the **+** icon to add devices.
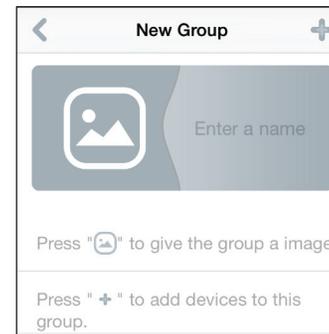
3. Tick the devices to be included in this group and tap **Done.**

4. Your group is created and will show up in My Places. Tapping each device in the group will take you to their settings.

Connecting to a Wireless Router
WPS Button

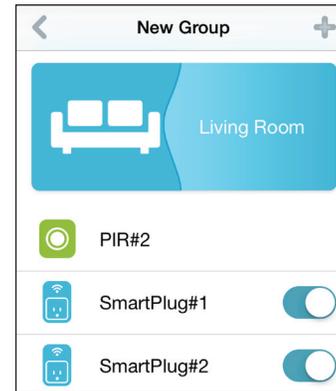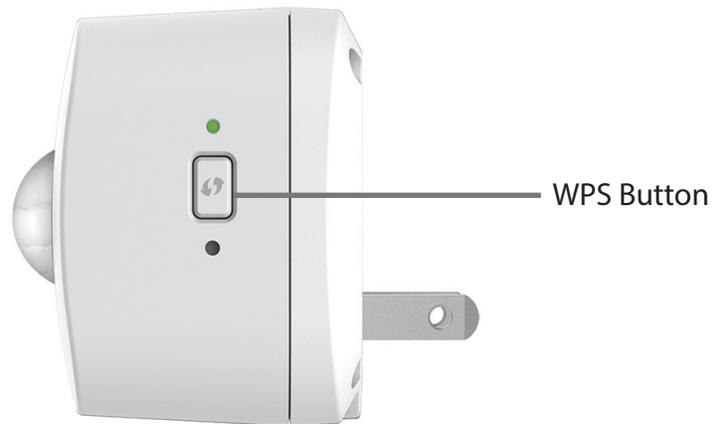WPS (Wi-Fi Protected Setup) is a simple and secure way to connect your DCH-S150 to your network. Please refer to the user manual for the wireless router you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

WPS Button

Step 1 - Press the WPS button on the DCH-S150 for about 1 second. The LED on the device will start to blink.

Step 2 - Within 120 seconds, press the WPS button on your wireless device.

Step 3 - Allow up to 1 minute to configure. Once the LED light stops blinking and turns solid green, you will be connected and your wireless connection will be secured with WPA2.

Troubleshooting

How do I reset the DCH-S150?

When you reset your DCH-S150, it will change your settings back to the factory default settings. To reset the device, locate the Reset button on the side of the device. With the device plugged in, press and hold the Reset button for about 10 seconds until the Power LED turns red.

Why can't I connect to my wireless router?

If you are having trouble connecting to your wireless router, try plugging the DCH-S150 into a location that is closer to your router. After the Power LED turns solid green, you can unplug the mydlink™ Wi-Fi Motion Sensor and move it to the desired location.

Where can I find the mydlink™ Home app?

You may download the free mydlink™ Home app from the App Store (iPhone, iPad, or iPod touch) or Google Play (Android). Search for the mydlink™ Home app by typing in "mydlink Home".

How does the mydlink™ Wi-Fi Motion Sensor work while I am away from home?

Remote access of the mydlink™ Wi-Fi Motion Sensor is enabled once you have registered and linked your DCH-S150 through mydlink. When your DCH-S150 is enabled for remote access, you will be able to control it from anywhere using your iOS or Android device.*

* Your motion sensor device must be connected to your home Wi-Fi network for remote access.

Technical Specifications

Standards
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b

Wireless Frequency Range [1]
- 2.4 GHz to 2.4835 GHz

Antenna
- Two Internal Antennas

Security
- WPS™ (PBC)
- Wi-Fi Protected Access (WPA/WPA2)

Device Management
- mydlink™ Home app

Diagnostic LEDs
- Status/WPS/Motion detection

Operating Temperature
- 0 to 40 ˚C (32 to 104 ˚F)

Storage Temperature
- -20 to 65 ˚C (-4 to 149 ˚F)

Operating Humidity
- 10% to 90% non-condensing

Storage Humidity
- 5% to 95% non-condensing

Power Input
- AC 100-250 V AC

Power Consumption
- 3 W

Certifications
- FCC
- CE/LVD
- UL

Dimensions
- 58 x 54 x 43.5 mm (2.28 x 2.12 x 1.71 inches)

Weight
- 80 grams (2.82 ounces)

[1] Frequency range varies depending on local regulations