

DCS-8000LH

Mini HD Wi-Fi Camera

**D-Link**<sup>®</sup>



## User Manual

11/14/2017

Hardware: A1  
Manual Version: 1.00



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| Revision | Date       | Description                                   |
|----------|------------|---|
| 1.00     | 11/14/2017 | Initial release A1 with firmware version 1.00 |

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# Table of Contents

|   |           |
|---|-----------|
| <b>Product Overview</b> .....             | <b>4</b>  |
| Package Contents.....                     | 4         |
| System Requirements.....                  | 5         |
| Introduction .....                        | 6         |
| Features.....                             | 6         |
| Hardware Overview.....                    | 7         |
| <b>Installation</b> .....                 | <b>8</b>  |
| Wireless Installation Considerations..... | 8         |
| Mobile App Setup .....                    | 9         |
| mydlink.....                              | 14        |
| <b>Using the Mobile App</b> .....         | <b>15</b> |
| mydlink Lite .....                        | 15        |
| Live View .....                           | 17        |
| Camera Options .....                      | 18        |
| Device Settings.....                      | 19        |
| Push Notification .....                   | 24        |
| Firmware Version .....                    | 25        |
| Remove Device.....                        | 26        |
| <b>Troubleshooting</b> .....              | <b>27</b> |
| <b>Technical Specifications</b> .....     | <b>29</b> |
| <b>Regulatory Statements</b> .....        | <b>31</b> |

# Product Overview

## Package Contents



DCS-8000LH Mini HD Wi-Fi Camera



Micro-USB Power Adapter



Quick Install Guide

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

**Note:** Using a power supply with a different voltage than the one included with your product will cause damage and void the warranty for this product.

# System Requirements

|                                 |  |
|---------------------------------|--|
| <b>Network Requirements</b>     | <ul style="list-style-type: none"><li>• 802.11n/g/b wireless network</li><li>• An Internet connection</li><li>• A router connected to your broadband modem</li></ul>                                 |
| <b>mydlink App Requirements</b> | <ul style="list-style-type: none"><li>• iPhone, iPad, iPod touch, or Android smartphone or tablet (please refer to the mobile app's store page to check whether your device is compatible)</li></ul> |

# Introduction

The DCS-8000LH Mini HD Wi-Fi Camera boasts a 120° lens that easily captures your entire room in high-resolution 720p. The built-in night vision, motion and sound detection, and handy mobile app empower you with knowing exactly what is happening anywhere, anytime.

## Features

### **Wide Angle Lens**

The DCS-8000LH provides large area coverage with a wide angle lens, eliminating the need for multiple cameras to cover a single room.

### **720p HD Video**

The 720p HD sensor provides crisp detail and clarity for high-quality snapshots and video.

### **Comprehensive Day/Night Surveillance**

The built-in infrared LEDs enable night time viewing of up to 16 feet (5 meters), giving you all-day surveillance.

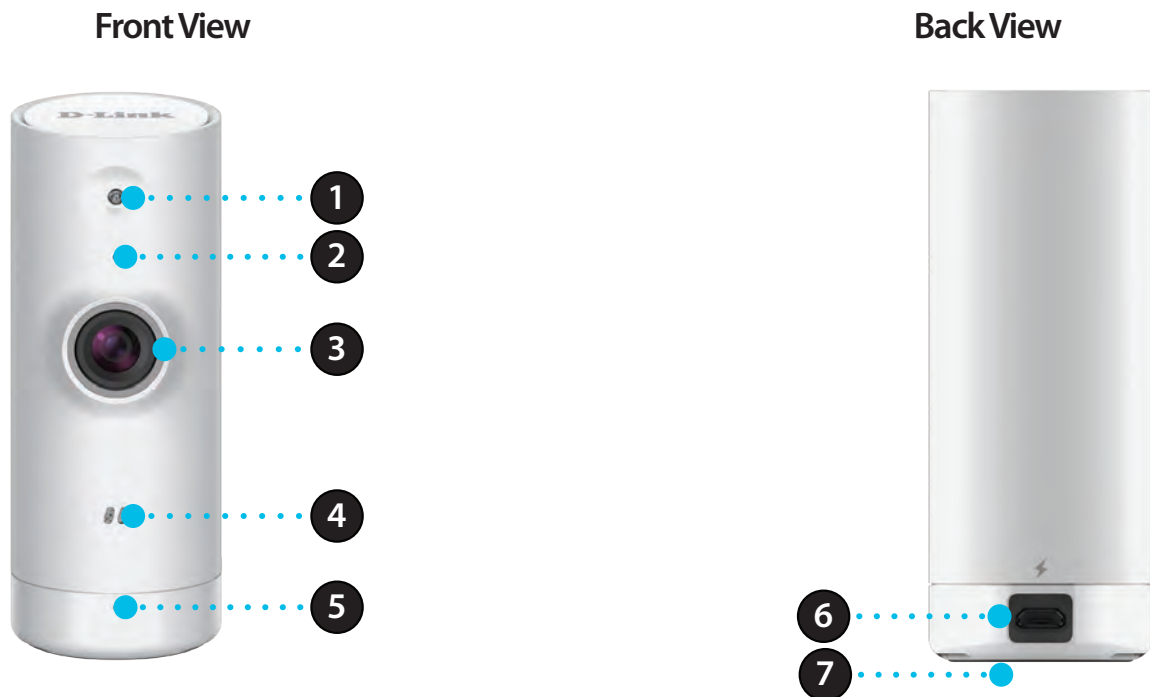
### **Wireless N**

The DCS-8000LH uses high-speed Wireless N on the 2.4 GHz band to connect to your wireless router, and is backwards compatible with 802.11g.

### **Remote Access via the mydlink Lite App**

With today's high-speed Internet services, the DCS-8000LH can provide the ideal solution for delivering live video images over the Intranet and Internet for remote monitoring. The camera allows remote access using the mydlink Lite app for live image viewing, and allows you to manage and control it anytime from anywhere with Internet access.

# Hardware Overview



|   |                  |   |
|---|------------------|---|
| 1 | Infrared LEDs    | Illuminate the camera's field of view in low light environments.  |
| 2 | Microphone       | Records audio from the surrounding area.  |
| 3 | 720p Camera Lens | Records video of the surrounding area.  |
| 4 | Light Sensor     | The IR-Cut Removable sensor monitors lighting conditions and switches between color and infrared accordingly.   |
| 5 | Status LED       | <b>Red:</b> The camera is not connected to the network. <b>Flashing Orange:</b> The camera is waiting for a connection. <b>Green:</b> The camera is connected and working properly. |
| 6 | Micro-USB Port   | Connect a power adapter   |
| 7 | Reset Button     | Hold this button down with an unfolded paperclip until the status LED starts flashing to reset the camera to factory default settings.  |

# Installation

## Wireless Installation Considerations

The DCS-8000LH 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. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle, it looks over 42 feet (14 meters) thick. 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 access points, wireless routers, and other networking devices where 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 will degrade your wireless signal.
4. Keep your product at least 3-6 feet or 1-2 meters away from electrical devices or appliances that generate RF noise.
5. If you are using 2.4 GHz cordless phones or other radio frequency sources (such as microwave ovens), 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 is not in use.



## Mobile App Setup

You can configure your DCS-8000LH through the mydlink Lite mobile app. On your mobile device, download the app by searching for **mydlink Lite** in the App Store or Google Play.

**Note:** The app's user interface may be different depending on your mobile device.



Launch the mydlink Lite app and go to the next section for more details on how to set up your DCS-8000LH.

**Note:** Be sure to connect to your wireless network using the 2.4 GHz band.

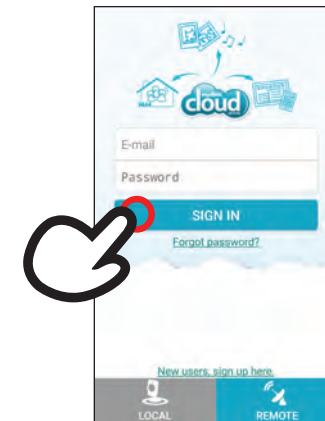
## Section 2 - Installation

To install your DCS-8000LH, follow the instructions below:

### Step 1:

New users: Tap **New users, sign up here** to create an account.

Existing users: Sign in to your mydlink account.



### Step 2:

Tap **Add a New Camera** on the next screen.



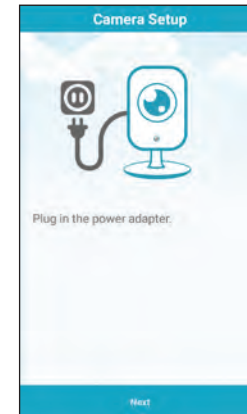
### Step 3:

When asked to scan the QR code, tap **Yes** to use the code found on the bottom of the DCS-8000LH.



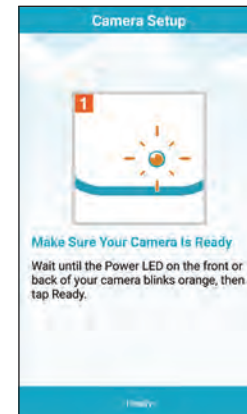
### Step 4:

Using the included Micro-USB adapter, connect the DCS-8000LH to a power outlet then tap **Next**.



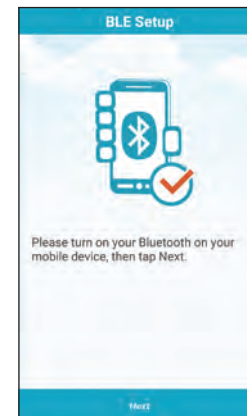
### Step 5:

Wait until the LED on your DCS-8000LH flashes orange, then tap **Ready**.



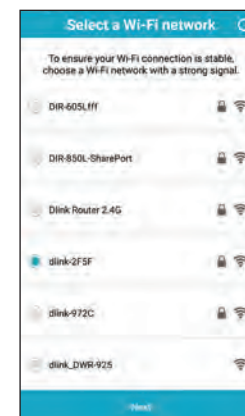
### Step 6:

Exit the app to enable bluetooth on your mobile device then return to the app and tap **Next**.



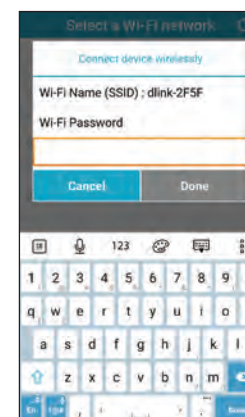
### Step 7:

The DCS-8000LH will scan for your wireless network. When it appears in the list, select your network and tap **Next**.



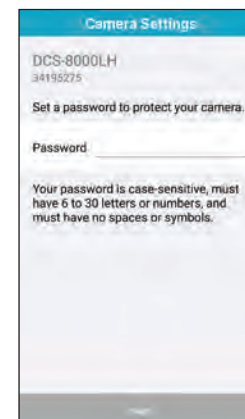
### Step 8:

Enter the Wi-Fi password for your wireless network and tap **Done**.



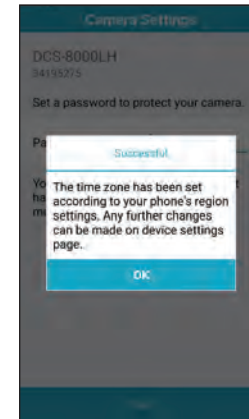
### Step 9:

Once your wireless settings have been verified, you will be asked to enter a password to protect your camera.



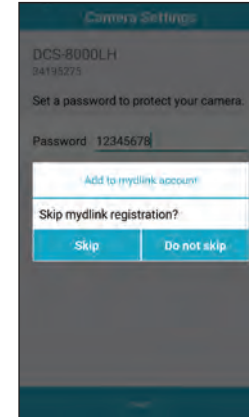
### Step 10:

The time zone for your DCS-8000LH will be automatically set to that of your mobile device. Tap **OK**.



### Step 11:

If you are logged in with a mydlink account, you will be asked to add this device under that account. If you do not have a mydlink account, you can choose to register for one or to skip this step.



### Step 12:

Your DCS-8000LH should now be connected to your network and you have completed setup. Tap **Done** to finish.





For more details on using your camera with mydlink, go to the **Support** section of the mydlink website and check the **User Manual** section for your product to find the latest instruction guide for your camera's mydlink features.

# Using the Mobile App mydlink Lite

Once you have installed your camera through the mydlink Lite mobile app. You can automate recording and use features such as motion detection and push notifications when events are triggered.

You can monitor your camera using the mydlink Lite app either from your local network (same as the camera's) or remotely from anywhere with an Internet connection. To use either method, follow the steps below:

## To view your camera feed on a local network:

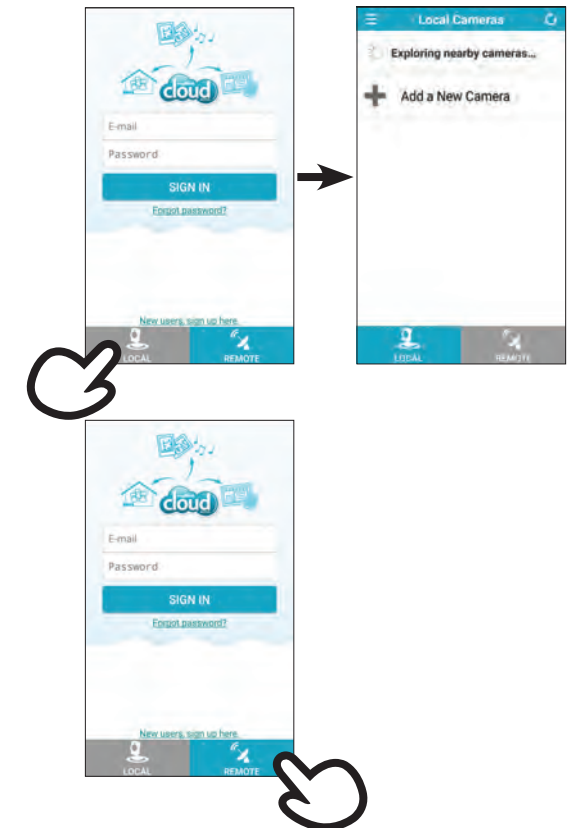
1. Using your mobile, connect to the same wireless network as your camera.
2. On the login page, tap **Local**. The app will automatically discover any D-Link cameras in your network.
3. Tap the DCS-8000LH icon to go to the live view screen.

## To view your camera feed remotely:

1. To enable remote monitoring, you will need to use mydlink services. Start the mydlink Lite app on your mobile device.
2. If you already have an account, you can tap **Remote** then enter your account e-mail and password and tap **Sign In**. If you don't have a mydlink account and want to register for one, you can tap the **New users, sign up here.** link to start the registration process.




mydlink Lite



## Section 3 - Using the Mobile App

If you tap on your device name, you will be taken to the Live View page, where you can view a live stream from your camera. There are also short how-to guides built into the app that you can access at any time if you need help.

### Step 1:

Tap the  icon to bring up the menu.

### Step 2:

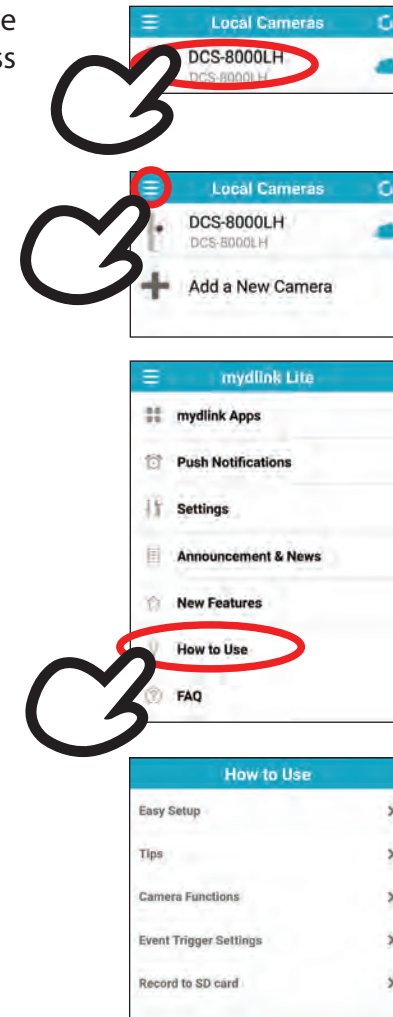
Tap **How to Use** to see a list of topics you need help on.

### Step 3:

The list of topics include:

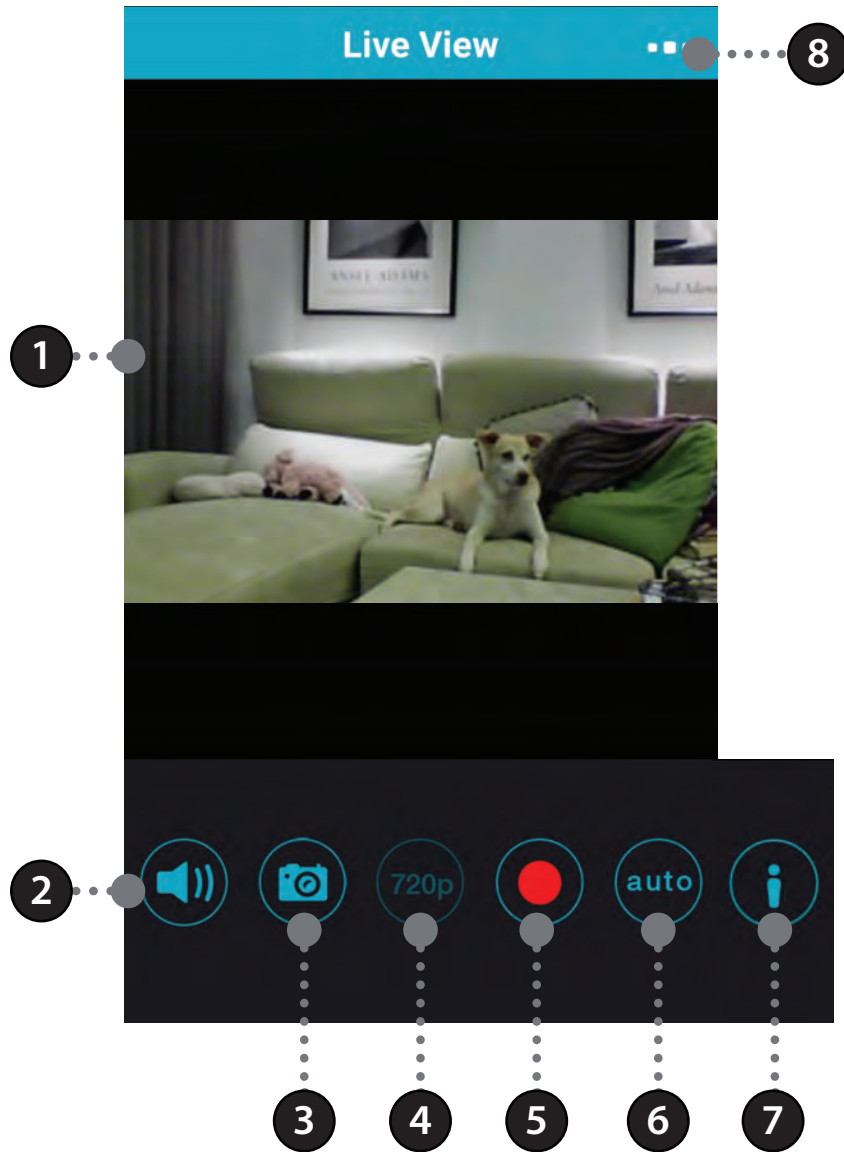
- **Easy Setup:** For details on how to set up your new camera.
- **Tips:** For details on local and remote connection to your camera, push notifications, and custom naming for your device.
- **Camera Functions:** For details on live view, PTZ, audio and other features supported by your camera.
- **Event Trigger Settings:** For details on motion and sound detection.

Tap on a topic to view a description of the feature and how to access or use it.






# Live View








|   |                      |   |
|---|----------------------|---|
| 1 | Live View            | <ul style="list-style-type: none"> <li>• Rotate your device to landscape orientation for full screen viewing.</li> <li>• Pinch to zoom.</li> </ul>  |
| 2 | Sound On/Off Button  | Tap this button to enable or disable live audio.  |
| 3 | Snapshot             | Tap this button to take a snapshot.   |
| 4 | Viewing Resolution   | Displays the current resolution.  |
| 5 | Manual Record Button | Tap this button to manually start recording video. The clip will be saved to your mobile device.  |
| 6 | View Mode Button     | Tap this button to toggle between Day, Night (IR LED on), or Auto modes.  |
| 7 | Information Button   | Tap this button to enable or disable the on-screen display information.   |
| 8 | Camera Options       | Tap this button to open a menu for access to: <ul style="list-style-type: none"> <li>• Live View</li> <li>• Settings</li> <li>• Push Notification</li> <li>• Firmware Version</li> <li>• Remove Device</li> </ul> |

## Camera Options


The Camera Options page lets you access the camera's settings. To configure settings, simply tap the  icon from the Live View page to access the Main Features menu.

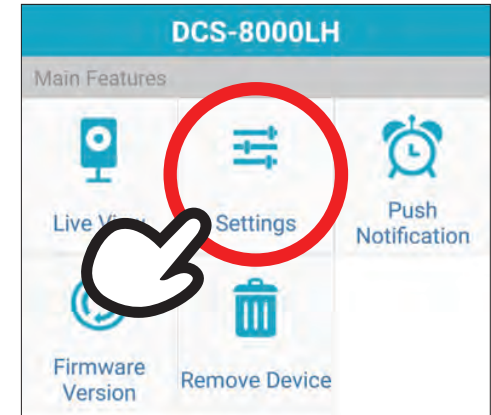


|  |                          |   |
|--|--------------------------|---|
|   | <b>Live View</b>         | Tap this icon to return to the live monitoring page.  |
|   | <b>Settings</b>          | Tap this icon to access the Device Settings page, where you can configure motion and sound detection and other camera settings.         |
|   | <b>Push Notification</b> | Tap this button to access the Push Notification page.   |
|   | <b>Firmware Version</b>  | Tap this button to view the current Firmware Version page.  |
|  | <b>Remove Device</b>     | Tap this button to access the page to remove the device from your mylink account and also reset the device to factory default settings. |

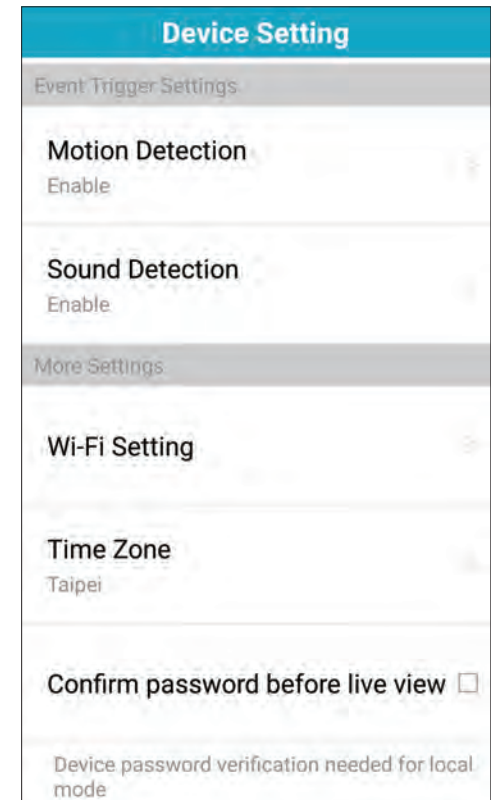


## Device Settings

The Device Settings page lets you configure your camera's system settings as well as automate event triggers. To configure settings, simply tap the  icon to access the camera options menu, then tap **Settings** to configure motion and sound detection and other camera settings.

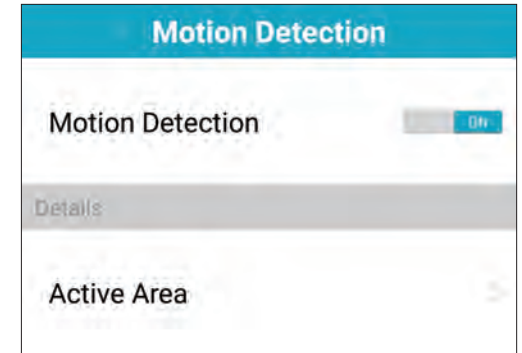


|  |   |
|--|---|
| <b>Motion Detection</b>                  | This shows if Motion Detection is on or off. Tap this to go to the detailed settings page for customizing your motion detection requirements. For more information, go to <b>Motion Detection</b> on page 20. |
| <b>Sound Detection</b>                   | This shows if Sound Detection is on or off. Tap this to go to the detailed settings page for customizing your sound detection requirements. For more information, go to <b>Sound Detection</b> on page 21.    |
| <b>Wi-Fi Setting</b>                     | If you need to manually change your camera's wireless network settings, you can tap here. For more information, go to <b>Wi-Fi Setting</b> on page 22.  |
| <b>Time Zone</b>                         | This shows the current Time Zone of the camera's location. Tap to change it. For more information, go to <b>Time Zone</b> on page 23.   |
| <b>Confirm password before live view</b> | Check this box to ask for a password when attempting to view live streams.  |



## Motion Detection

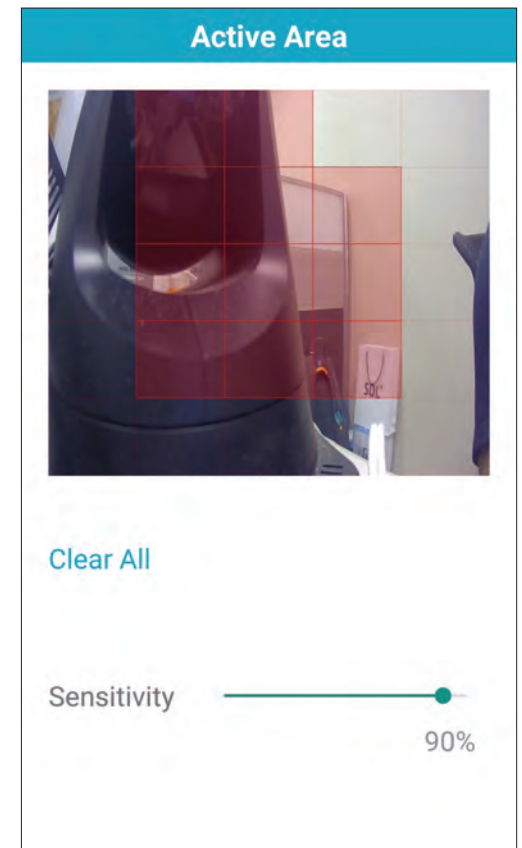
On this page you can tap **Motion Detection** to enable or disable it.



To customize your motion detection, tap **Active Area** to enter the configuration screen. You can tap on the image to activate red squares for areas you wish to detect motion in.

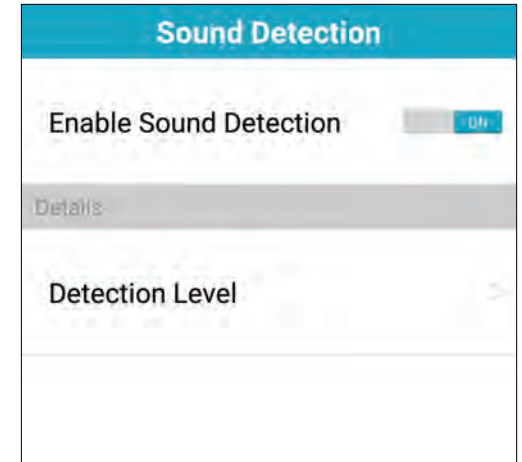
Tap **Clear All** to remove all motion detection areas.

Adjust the **Sensitivity** percentage until your desired motion detection results are achieved. Higher sensitivity will trigger smaller movements. Then tap the back button on your mobile and tap **Apply** to save your settings.




## Sound Detection

On this page you can tap **Sound Detection** to enable or disable it.

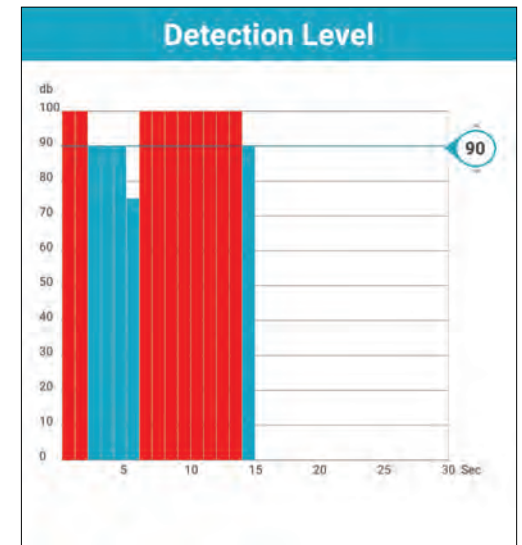


To customize your sound detection, tap **Detection Level** to enter the configuration screen.

You can tap and hold the  icon to change the threshold of the audio level you wish to register detection on. You can select from 50 to 90 decibels for the detection level limit.


The red bars indicate triggering and the blue bars are under the threshold.

Adjust the slider until your desired motion detection results are achieved. Then tap the back button on your mobile and tap **Apply** to save your settings.



## Wi-Fi Setting

If you need to change the network settings for your device, go to **Wi-Fi Setting** to scan for or manually add a Wi-Fi network.

Tap the  icon to perform a rescan, or select from one of the SSIDs below.

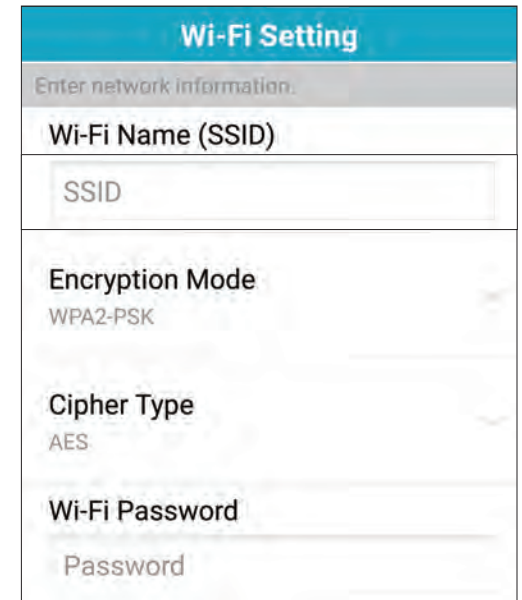
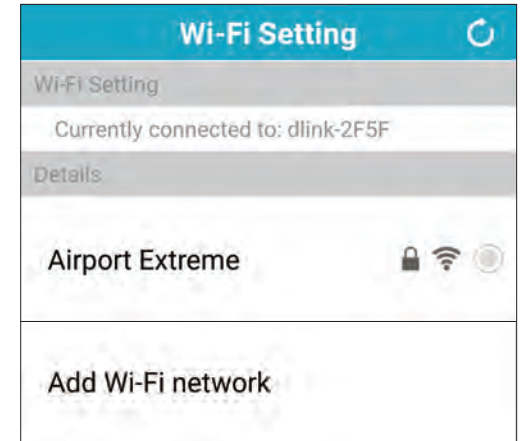
If necessary, you can tap **Add Wi-Fi network** to manually add an SSID.

After entering the Wi-Fi network name (SSID) of your preferred network, you need to select the type of encryption being used for the network you're connecting to. The options are **WEP**, **WPA-PSK**, or **WPA2-PSK**.

You will need to select the Cipher Type (**TKIP** or **AES**) being used as well.

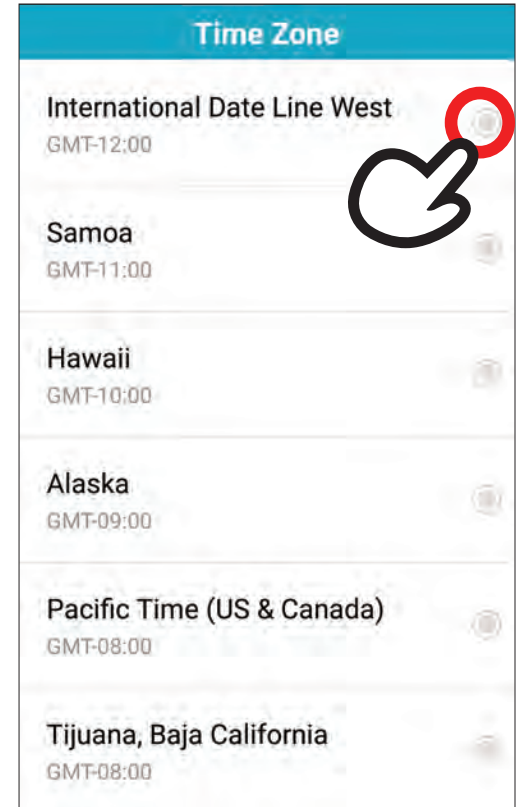
Then enter the Wi-Fi password for the wireless network.

Tap **Done** when you have finished to apply the settings.



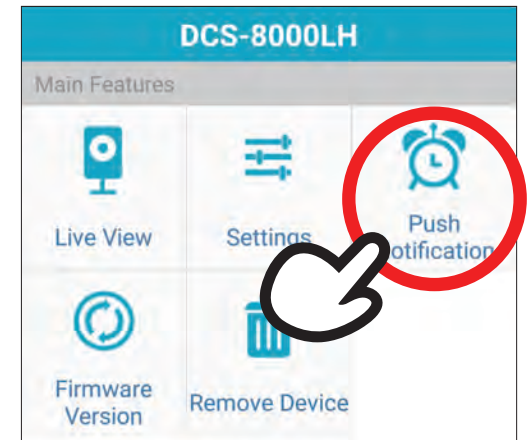
## Time Zone

On this page you can change the time zone of your device by simply scrolling to it and tapping it. Then tap **Apply** for it to take effect.



## Push Notification

On this page you can enable or disable notifications to be pushed to your mobile device in the event that motion or sound has been detected by the camera.



To enable push notifications:

### Step 1:

Tap the **Enable Push Notification** On/Off button.

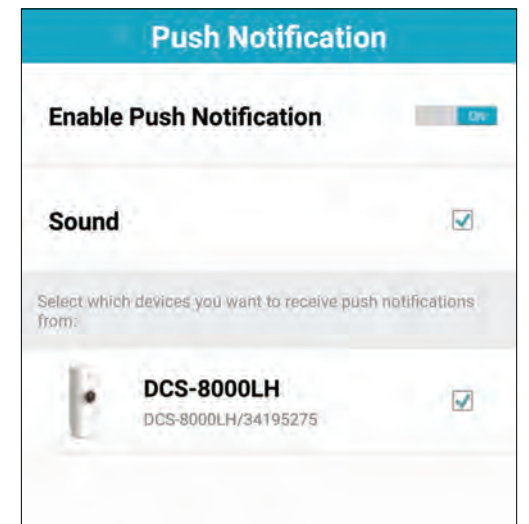
### Step 2:

If you are using Android, check the Sound box to play a sound if a notification is sent to your device. Make sure your notification volume is set on your device. iOS devices do not have this option.

### Step 3:

Check the box next to the device you want to send notifications (Android) or slide the button to the right next to the device to turn on (iOS).

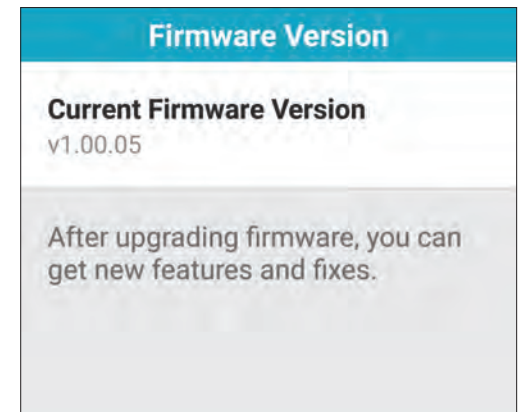
You will now receive push notifications anytime an event is triggered. This will include motion detection, sound detection, or if your device is disconnected from the network.





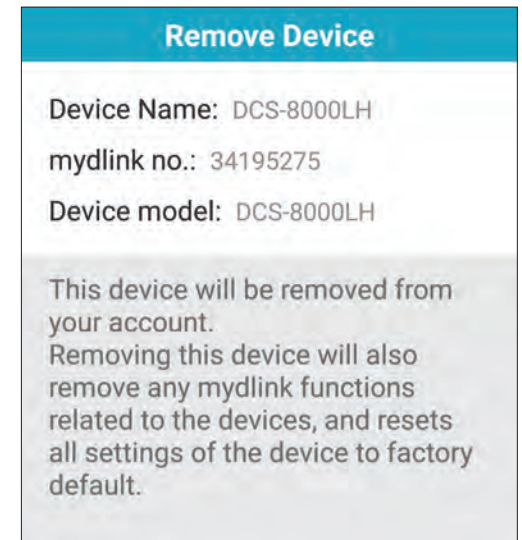
## Firmware Version

On this page you can view the currently installed firmware version of your device.



## Remove Device

On this page you can remove your device from your mydlink account and reset the firmware to factory default settings. Simply tap **Remove** to reset your device to factory default settings and remove it from your mydlink account.



# Troubleshooting

## **1. What can I do if I forget the password for my camera?**

If you forget your password, you will need to perform a factory reset of your camera. This process will change all your settings back to the factory defaults. It is therefore recommended that you make a record of the password for future reference. To reset your camera, please use an unfolded paperclip to press and hold the RESET button for at least 10 seconds while your camera is plugged in.

## **2. Why is the camera view hazy or bright when using night vision mode?**

The IR night vision lights on your camera may be reflecting off a nearby surface or window. Try repositioning your camera to avoid reflections or glare.

## **3. What can I do if my camera is not working correctly?**

First, check the camera LED status.

If the LED show green color that the camera is working, please make sure that:

- Your router has an active Internet connection.
- Both your mobile device and camera have a working Internet connection.
- If your camera is still not working, you may need to reset the camera and run mydlink lite APP.

To reset your camera, please use an unfolded paperclip to press and hold the RESET button for at least 10 seconds while your camera is plugged in.

## **4. Can I save video clips from my DCS-8000LH?**

You can download recorded video clips to your mobile device by pressing the manual record button on the Live View page in the app. After you press stop, a pop-up will notify you of where it was saved to.

## **5. How do I send e-mail notifications from my DCS-8000LH when sound or motion is detected?**

You will need to log into the mydlink web portal at to access the management page for your device. Select your DCS-8000LH from the device list and go to the Settings tab. Check the box next to Enable e-mail notifications to allow the service to send them to the e-mail address you used to register your mydlink account (the e-mail address) is shown next to this option. Under Event Trigger settings, check the boxes for Motion Detection and/or Sound Detection to receive each

type of notification.

### **1. How can I access my DCS-8000LH remotely through the Internet?**

In order to use your DCS-8000LH remotely through the Internet using the mydlink Lite app, you must register your camera with a mydlink account. You can do this using the free mydlink Lite app. Please go to **Mobile App Setup on page 9** for more information.

### **2. How do I update the firmware of my camera?**

You can update your camera's firmware by using the mydlink Lite app. You will receive a notification in your app when a new firmware is available. Simply tap **Upgrade** in the pop-up to proceed with updating your firmware.

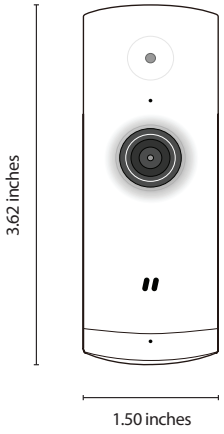
### **3. What can I do if I can't receive the verification e-mail for my mydlink account?**

First, check your Spam or Junk Mail folder. It's possible that your e-mail host may be sending the verification e-mail to your Spam folder or may be blocking the e-mail. Spam filters used by some e-mail providers may block or blacklist e-mails they perceive to be spam.

Note: If you are using a business e-mail address, your company's e-mail system may be using a spam rule to filter incoming

# Technical Specifications

| Camera  |  |  |
|---|--|--|
| Hardware Profile                                      | <ul style="list-style-type: none"> <li>• 1/4" progressive CMOS sensor</li> <li>• Minimum illumination: 0 lux with IR LEDs on</li> <li>• Minimum object distance: 50 cm</li> <li>• Lens focal length: 2.45 mm <math>\pm</math> 3%</li> <li>• Aperture: F2.4</li> <li>• Digital zoom (4x)</li> <li>• 16 feet IR illumination distance</li> </ul> | <ul style="list-style-type: none"> <li>• Angle of view:               <ul style="list-style-type: none"> <li>• Horizontal: 112°</li> <li>• Vertical: 54°</li> <li>• Diagonal: 120°</li> </ul> </li> <li>• Built-in Infrared-Cut Removable (ICR) Filter</li> <li>• Built-in microphone</li> </ul> |
| Image Features  | <ul style="list-style-type: none"> <li>• Time stamp and text overlays</li> <li>• Configurable sound detection level</li> </ul>   | <ul style="list-style-type: none"> <li>• Configurable motion detection windows</li> <li>• Configurable brightness</li> </ul>   |
| Video Compression                                     | <ul style="list-style-type: none"> <li>• Simultaneous H.264 format compression</li> </ul>  | <ul style="list-style-type: none"> <li>• JPEG for still images</li> </ul>  |
| Video Resolution                                      | <ul style="list-style-type: none"> <li>• 1280 x 720 at up to 30 fps</li> </ul>   |  |
| Audio Support   | <ul style="list-style-type: none"> <li>• PCM</li> </ul>  |  |
| Network   |  |  |
| Connectivity  | <ul style="list-style-type: none"> <li>• 2.4 GHz: 802.11n/g wireless with WPA/WPA2 encryption</li> </ul>   |  |
| Network Protocols                                     | <ul style="list-style-type: none"> <li>• IPv4, ARP, TCP, UDP, ICMP</li> <li>• NTP client (D-Link)</li> <li>• DNS client</li> </ul>   | <ul style="list-style-type: none"> <li>• RTP/RTCP (only for mydlink)</li> <li>• Bonjour</li> </ul>   |
| System Integration                                    |  |  |
| Event Management                                      | <ul style="list-style-type: none"> <li>• Motion detection</li> <li>• Sound detection</li> </ul>  | <ul style="list-style-type: none"> <li>• Manually taken snapshots &amp; video clips are saved to mobile device</li> </ul>  |
| Mobile Support  | <ul style="list-style-type: none"> <li>• mydlink Lite and mydlink Plus apps for iOS and Android devices<sup>3</sup></li> </ul>   |  |
| System requirements for mydlink Portal Web Management | <ul style="list-style-type: none"> <li>• Please check your regiona ... for the most up-to-date requirements</li> </ul>   |  |

| Physical           |  |  |
|--------------------|--|--|
| Environment        | • For indoor use only  |  |
| Weight             | • 57.7 grams (2.04 ounces) ± 5%  |  |
| Power Adapter      | • Input: 100 to 240 V AC, 50/60 Hz   | • Output: 5 V DC 1 A (Micro-USB)       |
| Power Consumption  | • Maximum: 4 watts ± 5%  |  |
| Temperature        | • Operating: 32 to 104 °F (0 to 40 °C)   | • Storage: -4 to 158 °F (-20 to 70 °C) |
| Humidity           | • Operating: 20% to 80% non-condensing   |  |
| Certifications     | • CE<br>• CE LVD   | • ICES<br>• FCC                        |
| Dimensions Diagram |  |  |

Footnotes:

- Use of audio or video equipment for recording the image or audio of a person without their knowledge and consent is prohibited in certain states or jurisdictions. The end-user assumes all liability for compliance with applicable state, local and federal laws.
- The DCS-8000LH is not supported by the mydlink Home app and is not compatible with D-Link's Connected Home Series.
- Check device app store for OS requirements.