



User Guide

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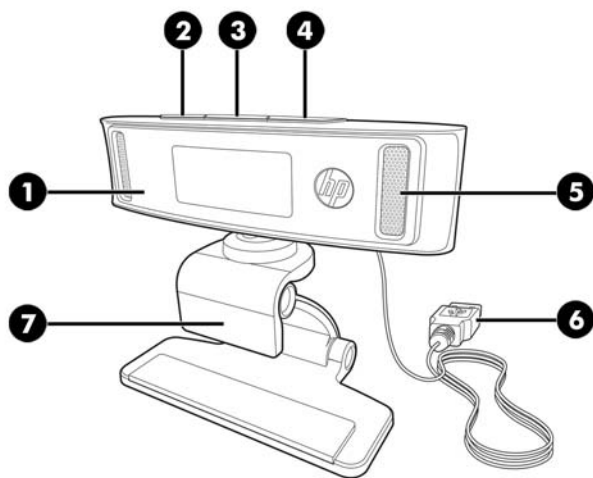
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1 Getting to know your webcam

Components



Component		Description
(1)	Power light	On: The webcam is on.
(2)	Video Record button	Records video. To stop recording video, press the button again.
(3)	HP Instant Chat button	Opens a video chat program.
(4)	Snapshot button	Captures still photos.
(5)	Internal microphone	Records sound.
(6)	USB connector	Connects the webcam to a computer.
(7)	Adjustable clip/stand	Connects the webcam to a monitor or enables it to stand on a flat surface.

See the product label for the HP product number and serial number.

For HP support, go to <http://www.hp.com/support>.

Software overview

The disc that comes with your webcam includes the following software:

- Webcam drivers—Enable your webcam to operate with optimum performance.
- Video Call Quick Launch—Helps you set up the webcam to communicate with your chat program.
- Video/photo capture program
- HP Webcam Control Center—Enables you to access all of your webcam functions from a single location on your desktop.

Go to <http://www.hp.com/support> to download the latest versions of HP programs and drivers.

System requirements

The webcam can record video up to 1080p resolution at 30fps.

To use your webcam with the included software, your computer must meet the following minimum system requirements:

 **NOTE:** To ensure compatibility, verify that your computer meets the minimum system requirements of your video chat program.

- Windows® 10, Windows 8.1, or Windows 7
- Intel® or AMD 1 GHz processor; 1.6 GHz dual-core processor recommended
- 1 GB RAM minimum; 2 GB RAM recommended
- 230 MB free hard drive space required for program installation
- USB 2.0 high-speed port

Quality and performance

The image quality and video performance are impacted by the following factors:

- The amount of light on the subject
- The webcam resolution setting
- The performance of the computer
- The bandwidth of the Internet connection, especially for chat

If you are experiencing slow or choppy video or washed out color, add a small lamp to the area that is not visible in the frame. This lights the viewing area of the webcam and helps to provide more lifelike video and more accurate color.

Installation

To install the webcam software on your computer:

1. Insert the included disc into your optical drive. The Installation Wizard opens.
2. Select your language, and then select **OK**.
3. Select **Next**.
4. Accept the End User License Agreement (EULA).
5. Either specify a location for the software installation, or select **Next**.
6. Select **Install**.
7. Select **Finish**.

2 Using HP Webcam Control Center

You can use the HP Webcam Control Center to access all software included with the webcam.

To access webcam software:

1. Select the **Features** icon.
2. Select one of the following options:
 - **Start a Video Call**—Launches HP Webcam Video Quick Call Launch.
 - **Take Video or Photos**—Launches HP Webcam 4310 Software.

Starting a video call

In HP Webcam Video Quick Call Launch, you can launch installed video chat programs, as well as install and then launch common video chat programs.

Supported video chat programs include:

- Skype®
- Google™ Hangouts

To start a video call:

1. In HP Webcam Video Quick Call Launch, select one of the following:
 - **Installed Video Chat**—Displays all supported, installed video chat programs
 - **Download & Install**—Displays all supported video chat programs that are not currently installed
2. Select a program. If it is installed, it launches. If it is not installed, it opens in your default web browser.

You can also start a video chat by pressing the HP Instant Chat button on the webcam.

Recording video or capturing still photos

In HP Webcam Control Center, selecting **Take Video or Photos** opens HP Webcam 4310 Software, which enables you to record video and capture still photos.

If necessary, select a webcam under **Select webcam**.

Configuring settings

1. In HP Webcam 4310 Software, select **Settings**.
2. Configure the following settings as needed:
 - **Video Settings**—Configure the following settings for recording video as needed:
 - **Video Path**—Select a path to a location to store your videos. You can either use the default location or select the browse button to select an alternate location.
 - **Select Audio Device**—Select a device to use to record audio with the webcam. For best results, select the microphone built into the webcam.

- **Select Video Format**—Select the format used to record the video. The options are AVI and WMV.
- **Resolution**—Select the resolution of the videos you capture. A higher resolution provides better image quality, but uses more memory.
- **Preselect Record Time**—Select this option to set the amount of time the webcam records a video. Clear this option to require that you manually stop the video recording. By default, this option is not selected.
- **Video Duration**—Select the length of time, in minutes, that the webcam records a video. This option is enabled only if **Preselect Record Time** is selected.
- **Image Settings**—Configure the following settings for taking photos as needed:
 - **Image Path**—Select a path to a location to store your images. You can either use the default location or select the browse button to select an alternate location.
 - **Burst Image Count**—Select the number of consecutive still images to take when you use the Burst option to capture still photos. You can select a number between 2 and 9 inclusive.
 - **Burst Image Interval**—Select the amount of time in seconds that elapses between each image taken when you use the Burst option to capture still photos.
- **Facebook Settings**—Enter your **Email Address** and **Password** for your Facebook account.
- **Advanced Settings**—Access standard Windows webcam settings, such as brightness, contrast, hue and frequency. You can either adjust settings manually or select **Auto** to detect a setting automatically.



NOTE: Make sure that **PowerLine Frequency (Anti Flicker)** is set to the power line standards of your country. The available settings are 50 Hz and 60 Hz. An improper setting might result in lines disrupting the image.

3. After the configuration is complete, select **OK**.

Recording video

1. In HP Webcam 4310 Software, select **Record Video**.
2. After the video is recorded, the video capture window is displayed. You can save the video, upload the video to Facebook, or delete the video using the following buttons:
 - **Save this video to a file**—Browse to a folder, and then save the video file.
 - **Upload this video to Facebook**—Logs in to Facebook, and then uploads the video file.



NOTE: To use this option, you must enter your Facebook credentials in the settings. See [Configuring settings on page 3](#).

- **Discard the video**—Deletes the current video file, and then returns to the HP Webcam 4310 Software main menu.

You can also start recording a video by pressing the Video Record button on the webcam. To stop recording video, press the button again.

Capturing still photos

To capture a single still photo:

1. In HP Webcam 4310 Software, select **Snapshot**. The preview window provides a countdown, and then the webcam captures a single image.
2. You can save the image, upload the image to Facebook, or delete the image using the following buttons:
 - **Save this image to a file**—Browse to a folder, and then save the image file.
 - **Upload this image to Facebook**—Logs in to Facebook, and then uploads the image file.



NOTE: To use this option, you must enter your Facebook credentials in the settings. See [Configuring settings on page 3](#).

- **Discard the image**—Deletes the current image file, and then returns to the HP Webcam 4310 Software main menu.

You can also capture a still photo by pressing the Snapshot button on the webcam.

To capture multiple still photos in quick succession:

1. In HP Webcam 4310 Software, select **Burst**. The preview window provides a countdown, and then the webcam captures multiple images in quick succession.
2. You can save the images, upload the images to Facebook, or delete the images using the following buttons:
 - **Save these images to a file**—Browse to a folder, and then save the image files.
 - **Upload these images to Facebook**—Logs in to Facebook, and then uploads the image files.



NOTE: To use this option, you must enter your Facebook credentials in the settings. See [Configuring settings on page 3](#).

- **Discard the images**—Deletes the current image files, and then returns to the HP Webcam 4310 Software main menu..

3 Troubleshooting

Problem	Solution
The video is jerky.	Many factors affect video quality, such as lighting, computer processor speed and memory, and Internet connection speed. If the video is jerky, you can lower the webcam resolution setting. To change the resolution: 1. In HP Webcam Control Center, select Take Video or Photos. 2. Select Settings. 3. Select a lower value for the Resolution setting.
There are lines interfering with the image.	1. In HP Webcam Control Center, select Take Video or Photos. 2. Select Settings, and then select Advanced Settings. 3. Select the appropriate value for your location for the PowerLine Frequency (Anti Flicker) setting. The available options are 60 Hz and 50 Hz.
My webcam is not connected to my video chat program.	See Starting a video call on page 3. If you have already installed all of your video chat programs, select a different video device in your video chat program. To change video settings in your video chat program, see the documentation for that program.
The webcam buttons are not working properly.	1. In the notification area, select the HP Button Manager icon. If you do not see the icon, select Start, and then select HP Button Manager. 2. Restart the program.
I hear an echo or feedback in the speakers.	Windows 10: 1. Right-click the Speakers icon in the notification area, at the far right of the taskbar, and then select Sounds. 2. On the Playback tab, select your speaker, and then select Properties. 3. On the Levels tab, configure the output level. 4. Select OK. 5. On the Recording tab, select your microphone, and then select Properties. 6. On the Levels tab, configure the input level. 7. Select OK. 8. Select OK. Windows 8.1: 1. From the Start screen, type <code>control panel</code>, and then select Control Panel. 2. select Hardware and Sound, and then select Sound. 3. On the Playback tab, select your speaker, and then select Properties. 4. On the Levels tab, configure the output level. 5. Select OK. 6. On the Recording tab, select your microphone, and then select Properties.

Problem	Solution
	- On the Levels tab, configure the input level. - Select OK. - Select OK. Windows 7: - Select Start, select Control Panel, and then select Sound. - On the Playback tab, select your speaker, and then select Properties. - On the Levels tab, configure the output level. - Select OK. - On the Recording tab, select your microphone, and then select Properties. - On the Levels tab, configure the input level. - Select OK. - Select OK.
I am having trouble using the webcam with Skype.	Make sure that you have installed the latest version of Skype. In Skype, make sure that the video device and microphone device are set to the webcam. For instructions on configuring video and audio settings in Skype, see the Skype documentation.
I see a blank screen with static when I run Skype.	In Skype, make sure that the video device is set to the webcam. For instructions on configuring video settings in Skype, see the Skype documentation.
The webcam microphone does not work with Skype.	In Skype, make sure that the microphone device is set to the webcam and increase the microphone volume, if necessary. For instructions on configuring audio settings in Skype, see the Skype documentation.
I have more than one USB Video Device option. Which one do I use?	You have more than one USB Video Device option if you have more than one video device connected to your computer. Select an option, and then attempt to use your webcam. If the webcam works, you selected the right option. If the webcam does not work, try another option until you find the option associated with your webcam.

4 Specifications

Operating environment

Factor	Metric	U.S.
Temperature, operating	5°C to 40°C	41°F to 104°F
Temperature, nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity (noncondensing), operating	10% to 80%	10% to 80%
Relative humidity (noncondensing), nonoperating	5% to 85%	5% to 85%