



# User Guide

## **SUMMARY**

Learn how to install and use the software, and configure your device. This guide provides information about components, software installation and usage, configuration, and more.

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### Product notice

This guide describes features that are common to most models. Some features may not be available on your product.

Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated, which is always enabled. High-speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>. **If your product ships with Windows in S Mode:** Windows in S Mode works exclusively with apps from the Microsoft Store within Windows. Certain default settings, features, and apps cannot be changed. Some accessories and apps that are compatible with Windows may not work (including some antivirus, PDF writers, driver utilities, and accessibility apps), and performance may vary, even if you switch out of S Mode. If you switch to Windows, you cannot switch back to S Mode. Learn more at [Windows.com/SmodeFAQ](https://Windows.com/SmodeFAQ).

To access the latest user guide, go to <http://www.hp.com/support>, and follow the instructions to find your product. Then select **Manuals**.

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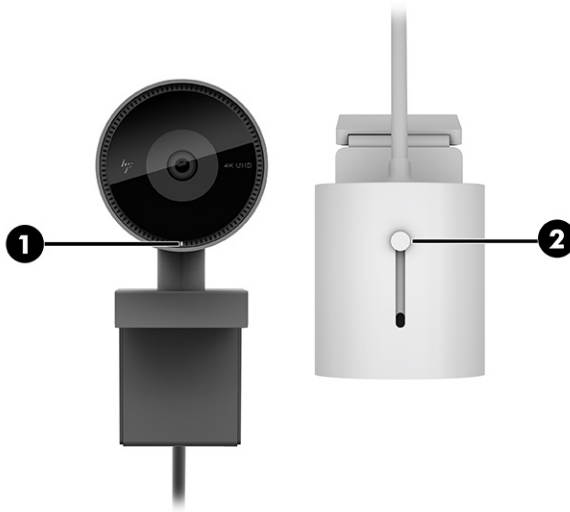
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# 1 Getting started

This section describes the web camera components, and explains how to download and open the HP Webcam Control Center software.

## Identifying components

To identify the components, use this illustration and table.



**Table 1-1** Components and their descriptions

Component	Description
(1) Status light	On: Camera is on. Off: Camera is off.
(2) Camera privacy cover	Covers the camera lens. By default, the camera lens is uncovered, but you can slide the camera privacy cover to block the camera's view. To use the camera, slide the camera privacy cover in the opposite direction to reveal the lens.

## Downloading the software

You need HP Webcam Control Center to access the newest camera features. To download the software, use the following procedure.

1. Go to <http://www.hp.com/support>, and follow the instructions to find your product.
2. Search for **HP Webcam Control Center**, and then download the app.

## Opening the software

To open the software, use the following procedure.

1. Select **Start**.
2. Select **HP Webcam Control Center**.

– or –

Select the HP Webcam Control Center icon in your system tray.

## 2 Customizing video settings

You can customize basic and advanced video settings.

### Basic video settings

The web camera has basic video settings that you can customize.

**Table 2-1 Basic video settings and descriptions**

Setting	Value range
Zoom	x1 to x5
Rotate	Rotate 90° left Rotate 90° right
Mirror	Vertical mirroring Horizontal mirroring
Brightness	-64 to 64
Contrast	0 to 64
Hue	-40 to 40
Saturation	0 to 128
Sharpness	0 to 5

### Advanced video settings

The web camera has advanced video settings that you can customize.

**Table 2-2 Advanced video settings and descriptions**

Setting	Value range
Gamma	72 to 500
White Balance	2800 to 6500
Backlight Compensator	0 to 1
Focus	0 to 800
Exposure	-8 to 0
Gain	0 to 8
Anti Flicker	Off, 60 Hz, 50 Hz

When you adjust the advanced settings, select the **Preview** button to see the effect on the image. You can also select **Restore Defaults** if you do not want to save the changes you made.



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## 3 Using filters

You can use filters to enhance the image on your web camera.

**Table 3-1** Filters and descriptions

Filter	Value range
Tone Adjust	0 to 100
Smoothing	0 to 100

On the **Filters** tab, select the box beside **Enable**. After adjusting the filter, select the **Compare** button to see the filter's effect on the image, or select **Restore Defaults** if you do not want to save the changes you made.

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## 4 Using effects

You can use effects to customize the image on your web camera.

Enabling face effects will consume more of your system's resources.

1. Select the **Effects** tab.
2. Select the box beside **Enable Face Effects** to activate the face effect options.
3. Select the effect you want, and it instantly appears on the face on the web camera image.

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# 5 Customizing ePTZ options

You can customize options within the **ePTZ** (electronic pan, tilt, and zoom) tab to change the way your web camera functions.

The **ePTZ** tab on HP Webcam Control Center contains two features that you can customize to fit your needs.

- AI (artificial intelligence) tracking
- ePTZ virtual cameras

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 **NOTE:** AI tracking and ePTZ virtual camera functions cannot both be active at the same time. When one is selected, the other will be disabled.

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## Enabling AI framing

You can enable AI framing from the **ePTZ** tab.

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 **NOTE:** Enabling **AI Framing** will consume more of your system's resources.

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When you enable AI framing, you choose to focus on body tracking or speech tracking.

**Auto adjusts the frame to include [everyone]:** This option selects body tracking. When you choose body tracking, the camera automatically detects human figures and finds the best composition to include everyone in the camera frame.

**Auto adjusts the frame to [speech]:** This option selects speech tracking. When you choose speech tracking, the camera automatically detects any mouth movement and zooms in on the person speaking, and then zooms out when the speaking stops.

## Customizing ePTZ virtual cameras

You can customize and save camera settings for quick access.

1. On the **ePTZ** tab, select a thumbnail image under **Custom ePTZ virtual camera**.
2. Select the zoom, rotate, and mirror options.
3. Click inside the HP Webcam Control Center Preview window, and drag the image to the position you want.

You can repeat these steps to save a maximum of 15 different camera settings for quick access. If you want to reset a thumbnail, select it, and then select **Default**. To refresh all thumbnails, select **Thumbnail refresh**. Select **Reset all** to delete all ePTZ settings.

## Using keystone correction

Keystone correction makes objects on the web camera easier to read by adjusting the object to the proper angle.

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 **NOTE:** Face effect and ePTZ are turned off while you are using the keystone correction feature.

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1. On the **Keystone Correction** tab, select **Keystone Correction**.
2. When the frame appears on the camera screen, drag the frame to the object that you want to calibrate, and adjust the four dots around the object.
3. Select **Done**. The object appears in a calibrated, readable form.

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## 6 Using the software

You can use HP Webcam Control Center to configure the web camera settings. The software remembers and uses these settings, even if the web camera is connected to a device without HP Webcam Control Center.

### Using preset profiles

You can use preset profiles to configure your web camera settings.

The preset profile options are available on the drop-down list at the top of the HP Webcam Control Center main screen.

- **Default:** Natural image color and brightness.
- **Smooth:** Touches up the image appearance.
- **Bright:** Brightens the hue and appearance.
- **Accentuated:** Intensifies the hue and contrast.

You can select one of the preset profile options to change the appearance of the image on your web camera.

1. Select a preset profile from the drop-down list.
2. Select **Preview** to see the effect of the settings on the web camera image.

### Adding a new profile

You can customize your settings and save them as a new profile.

1. Customize the settings in HP Webcam Control Center on the **Video, Filters, Effects,** and **ePTZ** tabs. See [Customizing video settings on page 3](#) for detailed instructions.
2. Select the Add new profile button (+).
3. Type a name for your new profile in **Profile name**, and then select **OK**.

### Copying a profile

You can copy an existing profile to save it as a new name.

1. Select the profile you want to copy from the drop-down list at the top of the HP Webcam Control Center main screen.
2. Select the Copy profile icon.
3. Type a new name for the profile, and then select **OK**.

## Editing a profile

You can edit the name of an existing profile and save it as the new profile name.

1. Select the profile you want to edit from the drop-down list at the top of the HP Webcam Control Center main screen.
2. Select the **Edit profile** icon.
3. In the **Edit profile** window, edit the name, and then select **OK**.

## Deleting a profile

You can delete a profile.

1. Select the profile you want to delete from the drop-down list.
2. Select the **Delete profile** icon.
3. Select **OK** to confirm.

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## 7 Using the screenshot feature

To create a screenshot of your entire web camera screen, select the Screenshot button on the main screen of HP Webcam Control Center. The Screenshot button has a camera in the center.

You can determine or change the screenshot save path.

1. Select the Settings icon.

The path is listed under **Screenshot Save Path**.

2. If you want to change the screenshot save path, select the **Change** icon. Then specify the new save path, and select **Choose**.

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# 8 Settings

You can access information about settings and change them by selecting the Settings icon, which opens the **Settings** screen.

The **Settings** screen contains two tabs:

- **Normal** tab provides information about the software and firmware version and the options to change the language, screenshot save path, and video quality.
- **Hot Key** tab provides a place to set up hot keys for specific virtual cameras.



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# 9 Accessibility

HP's goal is to design, produce, and market products, services, and information that everyone everywhere can use, either on a stand-alone basis or with appropriate third-party assistive technology (AT) devices or applications.

## HP and accessibility

Because HP works to weave diversity, inclusion, and work/life into the fabric of the company, it is reflected in everything HP does. HP strives to create an inclusive environment focused on connecting people to the power of technology throughout the world.

## Finding the technology tools you need

Technology can unleash your human potential. Assistive technology removes barriers and helps you create independence at home, at work, and in the community. Assistive technology helps increase, maintain, and improve the functional capabilities of electronic and information technology.

For more information, see [Finding the best assistive technology on page 14](#).

## The HP commitment

HP is committed to providing products and services that are accessible for people with disabilities. This commitment supports the company's diversity objectives and helps ensure that the benefits of technology are available to all.

The HP accessibility goal is to design, produce, and market products and services that can be effectively used by everyone, including people with disabilities, either on a stand-alone basis or with appropriate assistive devices.

To achieve that goal, this Accessibility Policy establishes seven key objectives to guide HP actions. All HP managers and employees are expected to support these objectives and their implementation in accordance with their roles and responsibilities:

- Raise the level of awareness of accessibility issues within HP, and provide employees with the training they need to design, produce, market, and deliver accessible products and services.
- Develop accessibility guidelines for products and services, and hold product development groups accountable for implementing these guidelines where competitively, technically, and economically feasible.
- Involve people with disabilities in the development of accessibility guidelines and in the design and testing of products and services.
- Document accessibility features, and make information about HP products and services publicly available in an accessible form.
- Establish relationships with leading assistive technology and solution providers.
- Support internal and external research and development that improves assistive technology relevant to HP products and services.

- Support and contribute to industry standards and guidelines for accessibility.

## International Association of Accessibility Professionals (IAAP)

IAAP is a not-for-profit association focused on advancing the accessibility profession through networking, education, and certification. The objective is to help accessibility professionals develop and advance their careers and to better enable organizations to integrate accessibility into their products and infrastructure.

As a founding member, HP joined to participate with other organizations to advance the field of accessibility. This commitment supports HP's accessibility goal of designing, producing, and marketing products and services that people with disabilities can effectively use.

IAAP will make the profession strong by globally connecting individuals, students, and organizations to learn from one another. If you are interested in learning more, go to <http://www.accessibilityassociation.org> to join the online community, sign up for newsletters, and learn about membership options.

## Finding the best assistive technology

Everyone, including people with disabilities or age-related limitations, should be able to communicate, express themselves, and connect with the world using technology. HP is committed to increasing accessibility awareness within HP and with our customers and partners.

Whether it's large fonts that are easy on the eyes, voice recognition that lets you give your hands a rest, or any other assistive technology to help with your specific situation—a variety of assistive technologies make HP products easier to use. How do you choose?

## Assessing your needs

Technology can unleash your potential. Assistive technology removes barriers and helps you create independence at home, at work, and in the community. Assistive technology (AT) helps increase, maintain, and improve the functional capabilities of electronic and information technology.

You can choose from many AT products. Your AT assessment should allow you to evaluate several products, answer your questions, and facilitate your selection of the best solution for your situation. You will find that professionals qualified to do AT assessments come from many fields, including those licensed or certified in physical therapy, occupational therapy, speech/language pathology, and other areas of expertise. Others, while not certified or licensed, can also provide evaluation information. You will want to ask about the individual's experience, expertise, and fees to determine if they are appropriate for your needs.

## Accessibility for HP products

These links provide information about accessibility features and assistive technology, if applicable and available in your country or region, that are included in various HP products. These resources will help you select the specific assistive technology features and products most appropriate for your situation.

- **HP Aging & Accessibility:** Go to <http://www.hp.com>, type **Accessibility** in the search box. Select **Office of Aging and Accessibility**.
- **HP computers:** For Windows, go to <http://www.hp.com/support>, type **Windows Accessibility Options** in the **Search our knowledge** search box. Select the appropriate operating system in the results.
- **HP Shopping, peripherals for HP products:** Go to <http://store.hp.com>, select **Shop**, and then select **Monitors** or **Accessories**.

If you need additional support with the accessibility features on your HP product, see [Contacting support on page 17](#).

Additional links to external partners and suppliers that may provide additional assistance:

- [Microsoft Accessibility information \(Windows and Microsoft Office\)](#)
- [Google Products accessibility information \(Android, Chrome, Google Apps\)](#)

## Standards and legislation

Countries worldwide are enacting regulations to improve access to products and services for persons with disabilities. These regulations are historically applicable to telecommunications products and services, PCs and printers with certain communications and video playback features, their associated user documentation, and their customer support.

### Standards

The US Access Board created Section 508 of the Federal Acquisition Regulation (FAR) standards to address access to information and communication technology (ICT) for people with physical, sensory, or cognitive disabilities.

The standards contain technical criteria specific to various types of technologies, as well as performance-based requirements which focus on functional capabilities of covered products. Specific criteria cover software applications and operating systems, web-based information and applications, computers, telecommunications products, video and multimedia, and self-contained closed products.

### Mandate 376 – EN 301 549

The European Union created the EN 301 549 standard within Mandate 376 as an online toolkit for public procurement of ICT products. The standard specifies the accessibility requirements applicable to ICT products and services, with a description of the test procedures and evaluation methodology for each requirement.

### Web Content Accessibility Guidelines (WCAG)

Web Content Accessibility Guidelines (WCAG) from the W3C's Web Accessibility Initiative (WAI) helps web designers and developers create sites that better meet the needs of people with disabilities or age-related limitations.

WCAG advances accessibility across the full range of web content (text, images, audio, and video) and web applications. WCAG can be precisely tested, is easy to understand and use, and allows web developers flexibility for innovation. WCAG 2.0 has also been approved as [ISO/IEC 40500:2012](#).

WCAG specifically addresses barriers to accessing the web experienced by people with visual, auditory, physical, cognitive, and neurological disabilities, and by older web users with accessibility needs. WCAG 2.0 provides characteristics of accessible content:

- **Perceivable** (for instance, by addressing text alternatives for images, captions for audio, adaptability of presentation, and color contrast)
- **Operable** (by addressing keyboard access, color contrast, timing of input, seizure avoidance, and navigability)
- **Understandable** (by addressing readability, predictability, and input assistance)
- **Robust** (for instance, by addressing compatibility with assistive technologies)

## Legislation and regulations

Accessibility of IT and information has become an area of increasing legislative importance. These links provide information about key legislation, regulations, and standards.

- [United States](#)
- [Canada](#)
- [Europe](#)
- [Australia](#)

## Useful accessibility resources and links

These organizations, institutions, and resources might be good sources of information about disabilities and age-related limitations.



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**NOTE:** This is not an exhaustive list. These organizations are provided for informational purposes only. HP assumes no responsibility for information or contacts you encounter on the internet. Listing on this page does not imply endorsement by HP.

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## Organizations

These organizations are a few of the many that provide information about disabilities and age-related limitations.

- American Association of People with Disabilities (AAPD)
- The Association of Assistive Technology Act Programs (ATAP)
- Hearing Loss Association of America (HLAA)
- Information Technology Technical Assistance and Training Center (ITTATC)
- Lighthouse International
- National Association of the Deaf
- National Federation of the Blind
- Rehabilitation Engineering & Assistive Technology Society of North America (RESNA)
- Telecommunications for the Deaf and Hard of Hearing, Inc. (TDI)
- W3C Web Accessibility Initiative (WAI)

## Educational institutions

Many educational institutions, including these examples, provide information about disabilities and age-related limitations.

- California State University, Northridge, Center on Disabilities (CSUN)
- University of Wisconsin - Madison, Trace Center
- University of Minnesota computer accommodations program

## Other disability resources

Many resources, including these examples, provide information about disabilities and age-related limitations.

- ADA (Americans with Disabilities Act) Technical Assistance Program
- ILO Global Business and Disability network
- EnableMart
- European Disability Forum
- Job Accommodation Network
- Microsoft Enable

## HP links

These HP-specific links provide information that relates to disabilities and age-related limitations.

[HP comfort and safety guide](#)

[HP public sector sales](#)

## Contacting support

HP offers technical support and assistance with accessibility options for customers with disabilities.



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**NOTE:** Support is in English only.

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- Customers who are deaf or hard of hearing who have questions about technical support or accessibility of HP products:
  - Use TRS/VRS/WebCapTel to call (877) 656-7058 Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.
- Customers with other disabilities or age-related limitations who have questions about technical support or accessibility of HP products:
  - Call (888) 259-5707 Monday through Friday, 6 a.m. to 9 p.m. Mountain Time.