# User Guide

IdeaPad Flex 3 Chromebook (11″, 6), IdeaPad 3i Chromebook (15″, 6)

**Read this first**

Before using this documentation and the product it supports, ensure that you read and understand the following:

- *Generic Safety and Compliance Notices*
- *Safety and Warranty Guide*
- *Setup Guide*

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# About this documentation

- Illustrations in this documentation might look different from your product.

- Depending on the model, some features and software programs might not be available on your computer.

- Documentation content is subject to change without notice. Lenovo makes constant improvement on the documentation of your computer, including this *User Guide*. To get the latest documentation, go to https://support.lenovo.com.

- This documentation applies to the following product models:

| Model Name | Machine Type (MT) |
|---|---|
| IP Flex 3 Chrome 11IJL6 | 82N3 |
| IdeaPad 3 Chrome 15IJL6 | 82N4 |

# Contents

# Chapter 1.   Meet your Chromebook

**Note:** Your computer might look different from the illustrations in this chapter.

## Front
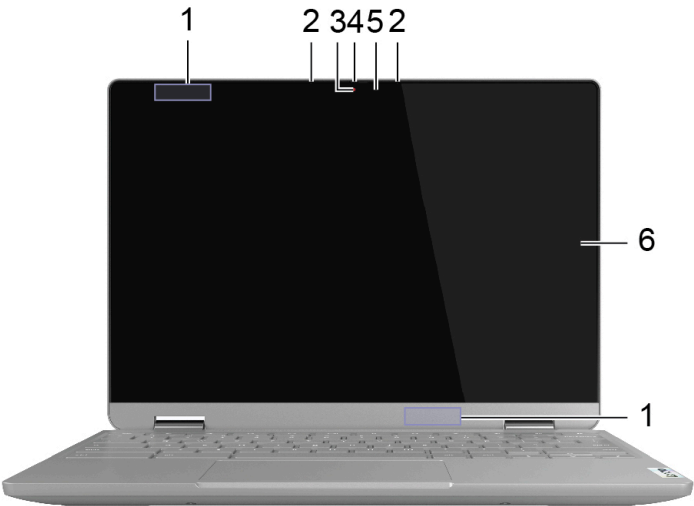


*Figure 1. IP Flex 3 Chrome 11IJL6 front view*

| | |
|---|---|
| 1. Antennas | 2. Microphones |
| 3. Camera | 4. Camera cover slider |
| 5. Camera light | 6. Multi-touch screen |

Figure 2. IdeaPad 3 Chrome 15IJL6 front view

| 1. Antennas | 2. Microphones |
| --- | --- |
| 3. Camera | 4. Camera cover slider |
| 5. Camera light | 6. Multi-touch screen* |

*For selected models

# Base
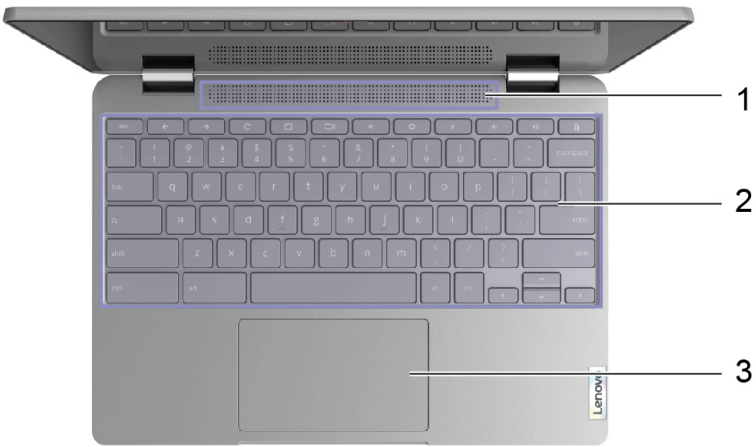


Figure 3. IP Flex 3 Chrome 11IJL6 base view

| 1. Speaker | 2. Keyboard |
|------------|-------------|
| 3. Touchpad | |



Figure 4. IdeaPad 3 Chrome 15IJL6 base view

| 1. Speaker | 2. Power button |
|------------|-----------------|
| 3. Keyboard | 4. Touchpad |

# Left
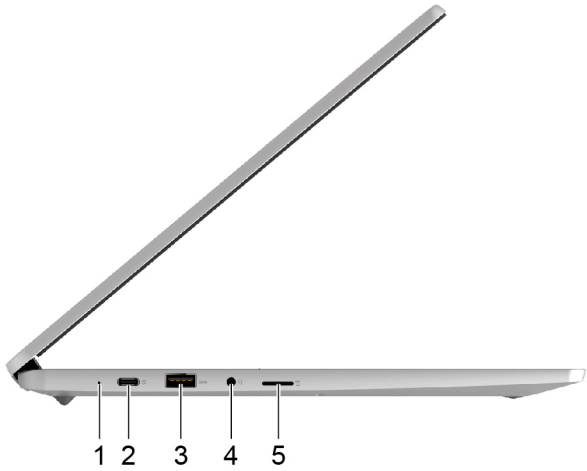


| 1. Charging LED | 2. Power connector/USB-C® connector |
|---|---|
| 3. USB (3.2 Gen 1) Type-A connector | 4. Combo audio jack |
| 5. MicroSD card slot | |

# Right



Figure 5. IP Flex 3 Chrome 11IJL6 right view

| 1. Power button | 2. Volume buttons |
|---|---|
| 3. USB (3.2 Gen 1) Type-A connector | 4. HDMI™ 1.4 connector |
| 5. Nano security-lock slot | |



Figure 6. IdeaPad 3 Chrome 15IJL6 right view

| 1. USB (3.2 Gen 1) Type-A connector | 2. HDMI 1.4 connector |
|---|---|
| 3. Nano security-lock slot | |

# Features and specifications

| Item | Value or specification |
| --- | --- |
| Dimensions | **IP Flex 3 Chrome 11IJL6**<br><br>•  Approximately 285.5 mm x 205.2 mm x 18.45 mm (11.2 inches x 8.1 inches x 0.7 inches)<br><br>**IdeaPad 3 Chrome 15IJL6**<br><br>• Approximately 362 mm x 243 mm x 19.15 mm (14.3 inches x 9.6 inches x 0.8 inches) |
| Weight | **IP Flex 3 Chrome 11IJL6**<br><br>• Approximately 1.25 kg (2.76 lb)<br><br>**IdeaPad 3 Chrome 15IJL6**<br><br>• Approximately 1.8 kg (3.97 lb) |
| Screen | **IP Flex 3 Chrome 11IJL6**<br><br>• Color display with In-Plane Switching (IPS) technology<br>• Multi-touch screen<br>• Resolution: 1366 x 768 pixels HD<br>• Size: 294.6 mm (11.6 inches)<br><br>**IdeaPad 3 Chrome 15IJL6**<br><br>• Color display with Twisted Nematic (TN) technology or Color display with In-Plane Switching (IPS) technology or IPS LCLW<br>• Multi-touch screen (IPS LCLW only)<br>• Resolution:<br>  – TN Full High Definition (FHD) models: 1920 x 1080 pixels<br>  – IPS Full High Definition (FHD) models: 1920 x 1080 pixels<br>  – IPS Full High Definition (FHD) models with touch function: 1920 x 1080 pixels<br>• Size: 396.2 mm (15.6 inches) |
| Memory | • Type: Low Power Double data rate 4x (LPDDR4x)<br>• Capacity: 4 GB or 8 GB |
| Storage device | • Type: Embedded multi media card (eMMC)<br>• Capacity: 32 GB or 64 GB or 128 GB<br><br>**Note:** The capacity of the storage device displayed in the operating system is typically lower than the nominal capacity. |

| Item | Value or specification |
|---|---|
| Connectors and slots | • Combo audio jack<br>• HDMI 1.4 connector<br>• MicroSD card slot<br>• USB-C connectors<br>   – Power input up to 45 W using the included power adapter<br>   – Power output up to 5 V and 3 A<br>   – USB data transfer rate up to 5 Gbps for USB 3.2 Gen 1<br>   – DisplayPort™ 1.4. Supports maximum output resolution of 4096 × 2160, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel).<br>• USB (3.2 Gen 1) Type-A connector |
| Wireless features | • Bluetooth<br>• Wireless LAN |
| Security | • Nano security-lock slot |
| Others | • Camera<br>• Microphone<br>• Speakers |
| Battery pack | • Type: Built-in rechargeable Li-ion Battery<br>• Number of cells: 3<br>• Capacity:<br>   – IP Flex 3 Chrome 11IJL6: 42Wh<br>   – IdeaPad 3 Chrome 15IJL6: 47Wh<br><br>**Note:**  The capacity listed here is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label). |
| ac power adapter | • Input: 100 V to 240 V, 50 Hz to 60 Hz<br>• Output: 15 V<br>• Power: 45 W |

**Note:**  Specifications might change without notice. Some specifications are model-specific and might not apply to the computer model that you purchased.

## Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and will be slower than the data rate listed below for each corresponding device.

| USB device | Data rate (Gbit/s) |
|---|---|
| 3.2 Gen 1 | 5 |

# Operating environment

**Maximum altitude**

3048 m (10 000 ft) (without pressurization)

**Temperature**

- Operating : 5 ℃ – 35 ℃ (41 ℉ – 95 ℉)
- Storage: 5 ℃ – 43 ℃ (41 ℉ – 109 ℉)

**Note:** When charging the battery pack, the environment temperature must be no lower than 10 ℃ (50 ℉).

**Relative humidity**

- Operating: 8% – 95% at wet-bulb temperature 23 ℃ (73 ℉)
- Storage: 5% – 95% at wet-bulb temperature 27 ℃ (81 ℉)

If possible, place your computer in a well-ventilated and dry area without direct exposure to sunshine.

# Chapter 2. Get started with your Chromebook

## Charge your Chromebook

The USB-C connector on your Chromebook works as the power connector. Plug in the ac power adapter to charge the built-in battery pack and provide power to the Chromebook.

**Connect to ac power**

**CAUTION:**
**All plugs must be firmly and securely inserted into receptacles.**
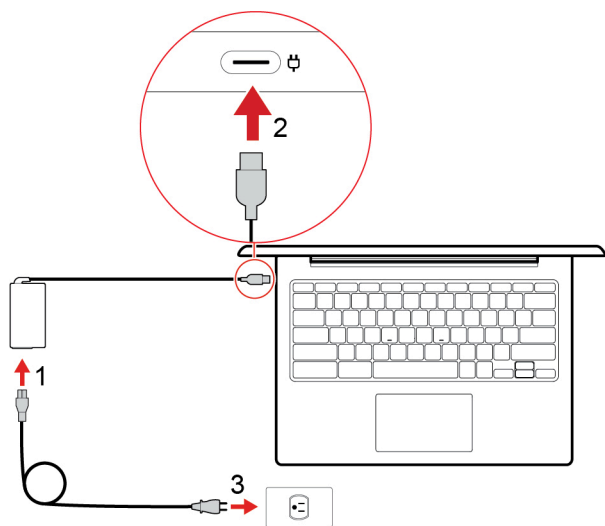


1. Connect the power cord to the ac power adapter.

2. Plug the power adapter into the USB-C connector of the Chromebook.

3. Plug the power cord into an electrical outlet.

**AC power status indicator behavior**

The ac power status indicator is next to the USB-C connector. The following table shows the indicator behaviors and the indicated power and battery status.

| AC power status indicator | Power status | Battery status |
|---|---|---|
| on (red) | plugged in | being charged, remaining power is less than 5% |
| on (amber) | plugged in | being charged, remaining power is between 5% and 97% |
| on (green) | plugged in | fully charged (97% to 100%) |
| off | unplugged | discharging |

## Connect to Wi-Fi

To connect your Chromebook to Wi-Fi:

1. Click your account picture.
2. Click the network icon and turn on the wireless feature.
3. Select an available network to connect. Provide required information if needed.

## Get to know Chromebook modes (for IP Flex 3 Chrome 11IJL6 only)

Your computer display can be rotated to any angle up to 360 degrees.

**Attention:**

- Do not rotate the computer display with too much force, or apply too much force to the upper-right or upper-left corner of the computer display. Otherwise, the computer display or hinges might get damaged.
- The keyboard and the pointing devices are automatically disabled in stand mode, tent mode, and tablet mode. Use the touch screen to control your computer instead.

Your Chromebook features the following four Chromebook modes. You can switch among different modes according to your preference.
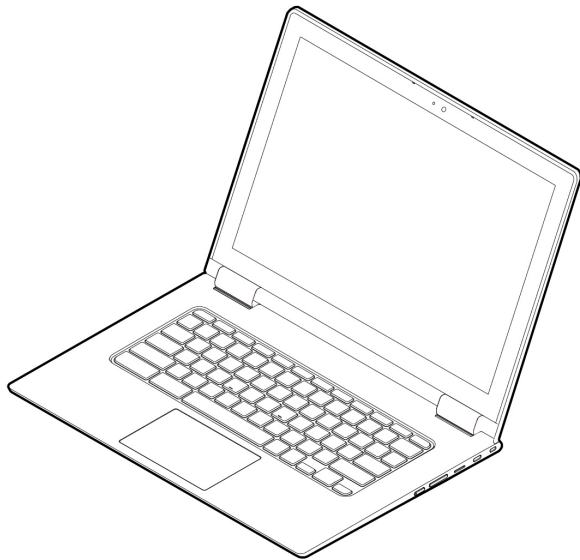
**Notebook mode**
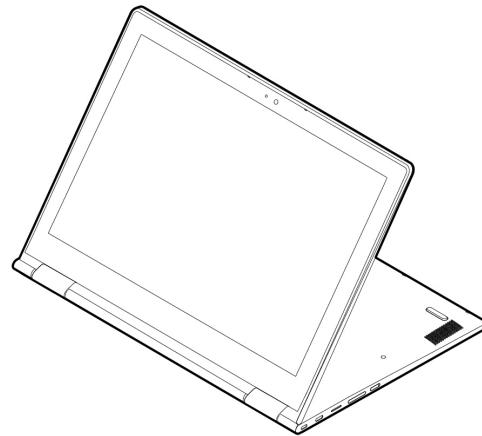
**Stand mode**
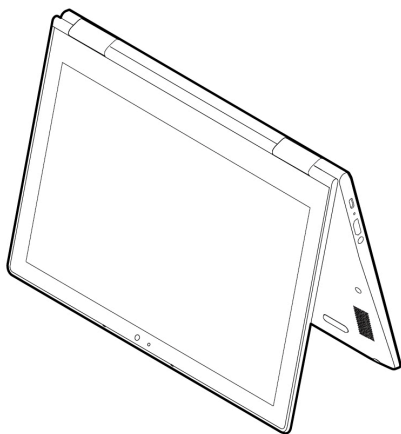
**Tent mode**
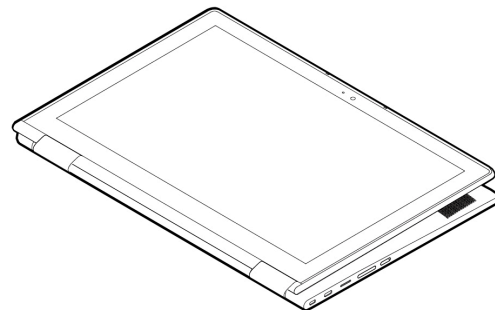
**Tablet mode**

# Use the power button

When you open the computer screen, the Chromebook automatically starts. If it doesn't, press the power button. You also can use the power button to put your Chromebook to sleep or wake your Chromebook.

For IP Flex 3 Chrome 11IJL6, the power button is on the right side of the computer. For details, see "Use the special keys" on page 13. The power button has an integrated LED to show the power status.

*Table 1. Power button LED behavior*

| LED status | Power status |
|---|---|
| on (white) | powered on |
| blink (white) | in sleep mode |
| off | powered off |

For IdeaPad 3 Chrome 15IJL6, the power button is on the keyboard of the computer. For details, see "Use the special keys" on page 13.

# Connect to Bluetooth devices

Your Chromebook supports Bluetooth feature. You can connect your Chromebook to a Bluetooth keyboard, mouse, speakers, or other Bluetooth devices.

**Note:** The Bluetooth devices must be within a short distance, usually 10 meters (33 feet), from the Chromebook.

1. Click your account picture, and then click the Bluetooth icon.
2. Turn on **Bluetooth**.
3. Select the device you want to pair and follow the on-screen instructions.

# Set the power plan

For ENERGY STAR® compliant computers, the following power plan takes effect when your computers have been idle for a specified duration:

*Table 2. Default power plan (when plugged into ac power)*

- Turn off the display: After 7.5 minutes
- Put Chromebook to sleep: After 8.5 minutes

To change the power plan settings:

1. Click your account picture, and then click the settings icon.
2. Click **Settings ➙ Device ➙ Power**.
3. Follow the on-screen instruction to change the settings as you desire.

To wake your Chromebook from sleep mode, press the power button or any key on the keyboard.

# Use the Nano security-lock slot

Lock your computer to a desk, table, or other fixtures through a compatible security cable lock.

The slot supports cable locks that conform to the Kensington NanoSaver® lock standards using Cleat™ locking technology. Do not attempt to use other types of cable locks that use a rotating T-bar™ locking mechanism. You are responsible for evaluating, selecting, and implementing the locking device and security feature. Lenovo makes no comments, judgments, or warranties about the function, quality, or performance of the locking device and security feature. Cable locks for your product are available from Lenovo at https://www.lenovoquickpick.com/.

# Chapter 3.  Navigate the screen

## Use the multi-touch screen

**Note:**  Some gestures might not be available depending on the app you use.

**Tap**

Open an app or perform an action on an open app, such as **Copy**, **Save**, and **Delete**, depending on the app.

**Tap and hold**

Open a shortcut menu.

**Slide**

Scroll through items, such as lists, pages, and photos.

**Drag an item to the location you want**

Move an object.

**Move two fingers closer together**

Zoom out.

**Move two fingers farther apart**

Zoom in.

**Swipe up from the bottom**

Show or hide the app shelf.

**Tap with two fingers**

Open a shortcut menu.

**Tips**

- Turn off the computer before cleaning the multi-touch screen.
- Use a dry, soft, and lint-free cloth or a piece of absorbent cotton to remove fingerprints or dust from the multi-touch screen. Do not apply solvents to the cloth.
- The multi-touch screen is a glass panel covered with a plastic film. Do not apply pressure or place any metallic object on the screen, which might damage the touch panel or cause it to malfunction.
- Do not use fingernails, gloved fingers, or inanimate objects for input on the screen.
- Regularly calibrate the accuracy of the finger input to avoid a discrepancy.

## Use the special keys

Your Chromebook keyboard works just like a conventional keyboard but with a few special keys.

| | |
|---|---|
| ← | Go to the previous page |
| → | Go to the next page |
| C | Reload your current page |
| ⤢ | Hide the tabs and the App Launcher in full-screen mode |
| ▢‖ | Show all windows in overview mode |
| ⚙ | Decrease the brightness of the computer screen |
| ⚙ | Increase the brightness of the computer screen |
| 🔇 | Mute the speakers |
| 🔉 | Decrease the volume |
| 🔊 | Increase the volume |
| 🔒 | Lock the computer screen |

Your Chromebook also supports the following key combinations:

| | |
|---|---|
| ctrl + ▢‖ | Take a screenshot |
| alt + 🔍 | Switch the Caps Lock function |
| 🔍 + L | Lock your computer screen |
| ctrl + alt + ? | View all keyboard shortcuts |
| *alt + ⚙ | Turn off the keyboard backlight and decrease the brightness |
| *alt + ⚙ | Turn on the keyboard backlight and increase the brightness |

\* For selected models

To change the keyboard settings:

1. Click your account picture, and then click the settings icon.
2. Click **Settings** ➙ **Device** ➙ **Keyboard**.
3. Follow the on-screen instruction to change the settings as you desire.

## Use the touchpad

You can use the touchpad to perform various touch gestures. The following section introduces some frequently used touch gestures, such as tapping, dragging, and scrolling.

**Notes:**
- When using two or more fingers, ensure that you position your fingers slightly apart.
- Some gestures are only available when you are using certain apps.
- If the touchpad surface is stained with oil, turn off the computer first. Then, gently wipe the touchpad surface with a soft and lint-free cloth moistened with lukewarm water or computer cleaner.

**Tap**
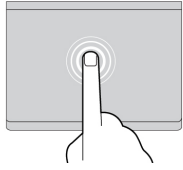
Tap anywhere on the touchpad with one finger to select or open an item.

**Two-finger scroll**

Put two fingers on the touchpad and move them in the vertical or horizontal direction. This action enables you to scroll through the document, Website, or apps.

**Two-finger tap**

Tap anywhere on the touchpad with two fingers to display a shortcut menu.
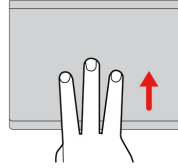
**Swipe three fingers up or down**

Put three fingers on the touchpad and move them up or down to see all your open windows.

To change the settings:

1. Click your account picture, and then click the settings icon.
2. Click **Settings ➙ Device ➙ Touchpad**.
3. Follow the on-screen instruction to change the settings as you desire.

# Chapter 4.   Use multimedia

## Use the camera

The built-in camera can be used for video calling or video conferencing. The indicator next to the camera turns on when the camera is activated.

To take photos with the camera:

1. Click the Launcher button, and then click **All apps**.
2. Click **Camera**.
3. Click the camera icon.

## Use audio

You can connect headphones or a headset with a 3.5-mm (0.14-inch), 4-pole plug to the audio connector to listen to the sound from your Chromebook.

To play a saved audio or video:

1. Click the Launch button, and then select **Files**.
2. Double-click a file to open it in the media player.

To adjust the volume, click the account picture, and then adjust the volume as you prefer.

## Connect to an external display

You can use the Chromebook's USB-C connectors to connect a projector or an external display.

1. Use a USB-C to USB-C cable (not supplied) to connect your Chromebook to an external display.

   **Note:**  If the external display does not support input through USB-C connector, you may need to purchase and use adapters. Lenovo provides various USB-C accessories at https://www.lenovo.com/accessories, to help you expand your computer functionality.
2. Connect the external display to an electrical outlet.
3. Turn on the external display.

To change display settings:

1. Click your account picture, and then click **Settings**.
2. In the **Device** section, click **Displays**.
3. Follow the on-screen instructions to change the display settings as you desire.

# Chapter 5. Lenovo help and support

## Frequently asked questions

| | |
|---|---|
| What do I do if my Chromebook stops responding? | 1. Press and hold the power button until the Chromebook turns off. Then, restart the Chromebook.<br><br>2. If step 1 does not work:<br><br>  &bull; For models with an emergency reset hole: Insert a straightened paper clip into the emergency reset hole to cut off power supply temporarily. Then, restart the Chromebook with ac power connected.<br><br>  &bull; For models without an emergency reset hole:<br><br>    &ndash; For models with the removable battery, remove the removable battery and disconnect all power sources. Then, reconnect to ac power and restart the Chromebook.<br><br>    &ndash; For models with the built-in battery, disconnect all power sources. Press and hold the power button for about seven seconds. Then, reconnect to ac power and restart the Chromebook. |
| What do I do if I spill liquid on the Chromebook? | 1. Carefully unplug the ac power adapter and turn off the Chromebook immediately. The more quickly you stop the current from passing through the Chromebook the more likely you will reduce damage from short circuits.<br><br>**Attention:** Although you might lose some data or work by turning off the Chromebook immediately, leaving the Chromebook on might make your Chromebook unusable.<br><br>2. Do not try to drain out the liquid by turning over the Chromebook. If your Chromebook has keyboard drainage holes on the bottom, the liquid will be drained out through the holes.<br><br>3. Wait until you are certain that all the liquid is dry before turning on your Chromebook. |
| How do I disinfect my Chromebook? | 1. Squeeze out excess liquid from wipe or disinfecting cloth before using. Recommended wipes are hydrogen peroxide wipes and alcohol based wipes. Do not use wipes containing sodium hypochlorite (bleach).<br><br>2. Gently wipe the Chromebook thoroughly, being careful to ensure no liquid drips into the Chromebook. Do not wipe on connector pins.<br><br>3. After disinfecting, follow the cleaning procedure from the wipe supplier to minimize chemical buildup of disinfectant residue.<br><br>4. Always allow the Chromebook to completely dry prior to any use.<br>For more information about cleaning and disinfecting, go to https://support.lenovo.com/in/en/solutions/ht035676. |
| How do I find accessibility information? | https://www.lenovo.com/accessibility |

## Lenovo support Web site

Technical support information is available on the Lenovo support Web site at https://support.lenovo.com.

# Call Lenovo customer support center

If you have tried to correct the problem yourself but still need help, during the warranty period, you can get help and information by telephone through the customer support center.

## Before calling customer support

Ensure that you have downloaded the most current drivers and system updates and recorded information about your computer before you call. When calling for technical assistance, have the following information available.

- Machine type and model
- Serial number of your computer
- Description of the problem
- Exact wording of any error messages
- Hardware and software configuration information

## Services supported by Lenovo customer support center

The following services are available during the warranty period.

- Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

## Services not supported by Lenovo customer support center

- Replacement or use of parts not manufactured for or by Lenovo or non-warranted parts
- Identification of software problem sources
- Configuration of UEFI BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

## Support phone numbers

For the Lenovo support phone number for your country or region, go to https://pcsupport.lenovo.com/supportphonelist.

**Note:** Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

## Get help from Google

After signing in to your Chromebook, start Get Help from the app Launcher. The Get Help app provides comprehensive instructions on using your Chromebook.

In addition, if you are interested in visiting the Chromebook Help Center and Community, go to http://google.com/support/chromebook.

# Chapter 6.  Chromebook and accessibility

Chromebooks are a new type of computer that run ChromeOS, a proprietary operating system developed by Google. With a Chromebook, you can access information, connect with friends, pursue education, conduct research, and complete work tasks. This reliance extends to individuals with vision, hearing, cognitive, or mobility impairments, as well as to those whose abilities may decline due to illness or aging.

This chapter explores the accessibility features available on your Lenovo Chromebook, including both hardware components and those offered by the pre-installed operating system. By gaining a comprehensive understanding of the available accessibility features and how to activate and configure them, you can enhance your Chromebook's usability for individuals with disabilities.

## Accessibility features of the Chromebook hardware

Lenovo Chromebooks are designed with accessibility in mind. Throughout the design process, special considerations are prioritized for individuals with disabilities and best industry practices are implemented in hardware design.

## USB connectors for connecting assistive technology devices

Several types of assistive technology devices are available on the market that can be connected to a Chromebook to enhance its accessibility. For example, a refreshable braille display is an assistive technology device that enables individuals who are both deaf and blind to use a Chromebook. When connected to a Chromebook, a refreshable braille display can work in conjunction with a compatible screen reader to provide tactile output in braille characters. Blind individuals who have been trained to read braille can run their fingers over the display to comprehend the information presented on the Chromebook.

Many assistive technology devices utilize USB technology for connectivity. Most Lenovo Chromebooks are equipped with at least one USB connector that adheres to the relevant USB specifications and is backward compatible. A Lenovo Chromebook may feature a USB Standard-A connector, a USB Type-C connector, or both. If the plug type of the assistive technology device does not match the USB connector on your Chromebook, you can easily purchase and use a USB adapter to resolve the issue.

## Keyboard accessibility

The keyboard serves as the primary input device for many Chromebook users. Chromebook keyboards are designed and manufactured with accessibility in mind. This section highlights the accessibility features of the keyboards that benefit all users, including those with disabilities.

### Keyboard layout

The alphabetic keys on a Chromebook keyboard are arranged in a qwerty layout, which is standard for input devices featuring alphabetic keys. The f and j keys have bumps that make them tactilely distinguishable from other keys. This feature serves as an orientation aid for skilled typists, allowing them to rest their index fingers without looking at the keys. Some Chromebook keyboards include a separate numeric keypad. The numeric keys are organized in four rows and three columns, arranging in ascending order from left to right and bottom to top. Additionally, the 5 key features a bump to make it tactilely distinguishable.

### Standard modifier keys

Chromebook keyboards are equipped with standard modifier keys, including:

> the alt key

> the ctrl key

the shift key

the Launcher key

These keys are extensively used as the modifier key for shortcuts by the operating system and other applications.

**The tab key**

The tab key is located in the leftmost column of the keyboard. For operating systems, applications, and web documents that are designed with accessibility in mind, users can press tab and alt + tab (in reverse order) to cycle through the interactive elements.

**Hotkeys**

Many Lenovo Chromebook keyboards feature hotkeys in the top row, offering convenient access to frequently used settings.

**The fn key**

The fn key, short form for function, is a modifier key. It can be used with the top-row dual-function keys to switch their functionalities. It can also be used with several other keys to access defined settings.

**Keyboard backlight**

Many Chromebook keyboards are equipped with backlights to help you use the keyboard in dark lighting conditions. The backlights can be controlled by pressing the backlight key on the top row of the keyboard.

# Biometric devices

Some Lenovo Chromebooks are equipped with biometric devices that facilitate easy and secure identity authentication. If your Chromebook includes a fingerprint sensor, you can use your fingerprint for authentication. Biometric identity authentication can be particularly beneficial for users who find it difficult typing passwords.

**Note:** When biometric devices are used for device authentication, they are not the only available method for this purpose. If biometric authentication fails, you can use a password or PIN to sign in to ChromeOS.

# Accessibility features of ChromeOS

An operating system is a crucial piece of software installed on a Chromebook. It plays a vital role in the Chromebook's basic functionality by providing a user interface, various tools for system management, and a foundation upon which additional specialized applications can be installed.

Google ChromeOS is a Google–built operating system that comes preinstalled on many Lenovo Chromebooks. It offers a rich set of accessibility features designed for individuals with diverse disabilities. This section outlines the accessibility features available in ChromeOS, explains how to activate them, and discusses the benefits they provide.

For the latest and comprehensive information on ChromeOS accessibility, go to Chromebook Help Center at https://google.com/support/chromebook/ or Chromebook Accessibility website at https://www.google.com/chromebook/accessibility/.

# Configuring accessibility features

ChromeOS provides a centralized location within the Settings app for activating and configuring all accessibility features. You can access this section by selecting **Launcher ➔ Settings ➔ Accessibility**. With **Show accessibility options in Quick Settings** turned on, pressing alt + shift + s, or selecting the time at the

bottom right opens a quick setting panel, where accessibility features can be turned on and off. Additionally, you can open the **Accessibility** panel by pressing the accessibility key on the top row of the keyboard.

# Text-to-Speech

Text-to-Speech is ChromeOS' built-in text reading and spoken feedback application. It consists of two major functions: ChromeVox and Select-to-speak. ChromeVox provides spoken feedback to user input, and Select-to-speak reads selected text aloud. These functions allow individuals with visual impairments to navigate effectively within ChromeOS, use applications, and browse the web.

## Start and stop ChromeVox and Select-to-speak

You can start and stop ChromeVox and Select-to-speak by selecting the toggles in the centralized Accessibility section of the Settings app. As keyboard shortcuts, ctrl + shift + z turns on and off ChromeVox, and Launcher + s starts the Select-to-speak settings.

## Customize the Text-to-Speech voices

Text-to-Speech offers a variety of controls that allow you to customize it to suit your preferences. For example, you can select your preferred voice for the languages you need. You also have the option to preview and adjust the selected voices. All Text-to-Speech settings are conveniently located in the centralized Accessibility section of the Settings app.

# Adjusting the Display and magnification

For individuals who find it difficult to see text clearly on the screen, ChromeOS offers the options of adjusting the display settings and text sizes and magnification.

## Adjust the Display and text size

If you find the items on the screen are too small, you can scale up the size of the display on your Chromebook.

Step 1.   Select **Launcher ➜ Settings ➜ Accessibility ➜ Display and magnification ➜ Display settings**.

Step 2.   Find **Display and text size** under **Built–in display**, and drag the slider to adjust the size you want.

## Apply Color inversion

For individuals with low vision, ChromeOS offers contrast themes that enhance text readability by using a background color that sharply contrasts with the text.

Step 1.   Select **Launcher ➜ Settings ➜ Accessibility ➜ Display and magnification**.

Step 2.   Find **Color inversion**, select the toggle, or use the keyboard shortcuts, Launcher + ctrl + h or Search + ctrl + h to turn Color inversion on and off.

## Enable the magnifier

The magnifier makes the items on the screen easier to see. In ChromeOS, the magnifier consists of **Full-screen magnifier** and **Docked magnifier**, you can enlarge the entire screen by **Full-screen magnifier** to make the items on the screen bigger, and use split–screen view by **Docked magnifier** to see the magnified area of the screen.

Step 1.   Select **Launcher ➜ Settings ➜ Accessibility ➜ Display and magnification**.

Step 2.   To enable or disable the magnifier, you can select the toggles or use the keyboard shortcuts, Launcher + ctrl + m or Search + ctrl + m for **Full-screen magnifier**, and Launcher + ctrl + d or Search + ctrl + d for **Docked magnifier** respectively.

When the magnifier is enabled, you can press ctrl + alt + Brightness up to zoom in and ctrl + alt + Brightness down to zoom out.

## Sticky keys

Google ChromeOS offers numerous keyboard shortcuts that require users to hold down a modifier key (such as shift, ctrl, alt, or the Launcher key) before pressing one or more additional keys. While these shortcuts provide significant convenience for many users, they can pose accessibility challenges for individuals who have difficulty holding down multiple keys at the same time.

Sticky keys is an accessibility feature in ChromeOS that, when enabled, allows users to press keys in sequence to activate shortcut functions. For example, instead of holding down the ctrl key and the c key simultaneously, users can press each key individually to copy text to the clipboard.

To enable or disable Sticky keys, press the accessibility key on the top row of the keyboard, or use the keyboard shortcuts alt + shift + s or select the time at the bottom right to open a quick setting panel, select **Accessibility**, and then select the Sticky keys toggle.

## Accessible user documentation

Documentation containing instructions for the use of the product, including its accessibility features, is available in accessible formats (such as HTML and PDF) on the Lenovo Support Website. When creating documentation, a series of industry standards and best practices are followed to ensure that the content is useful to as broad an audience as possible. Additionally, automated testing tools are employed to identify issues that may hinder the accessibility of information. These issues are addressed to the extent permitted by commonly available technologies.

## Accessibility features of user documentation

By adhering to industry standards and best practices, Lenovo documentation offers numerous features that facilitate the perception and understanding of the content. Additionally, several of these features are specifically designed to ensure that users of assistive technology devices can access information comparable to that available to those who do not rely on such devices.

**Perceivable content**

Text content is presented using popular and easy-to-read fonts. Text colors are in high contrast with the background. Non-text elements, such as graphics and videos that convey important information, are accompanied by alternative text descriptions. Users with visual impairments can utilize screen readers to access information comparable to that available to sighted users.

**Understandable content**

The documentation is presented visually in a well-structured and simple layout. It also includes hidden tags or other markup information that store the content's structure, which can be utilized programmatically by assistive technologies to convey this structure to users.

**Operable content**

Documentation includes industry-standard tags for sectioning and interactive elements, such as titles, headings, various structural components, links, buttons, and input fields. Screen reader users can utilize standard modifier keys on the keyboard to effectively navigate and interact with the documentation.

## Testing documentation accessibility

Before being officially released, Lenovo documentation undergoes testing with automated tools to evaluate its accessibility. HTML documents are assessed for compliance with the success criteria outlined in the *Web*

*Content Accessibility Guidelines* (WCAG), a widely accepted set of standards designed to enhance web document accessibility. PDF documents are evaluated for accessibility using the accessibility checker in Adobe Acrobat for the same purpose. Automated testing tools help identify elements within a document that may present challenges when rendered by screen readers and other assistive technology devices. Accessibility issues identified by these automated tools are subsequently analyzed manually and corrected as needed.

# Appendix A. Important safety information

## Non-rechargeable coin-cell battery notice

⚠️**DANGER**

> **If the coin-cell battery is incorrectly replaced, there is danger of an explosion. The battery contains a small amount of harmful substance.**
>
> **Do not heat to more than 100 °C (212 °F).**
>
> **The following statement applies to users in the state of California, U.S.A.**
>
> **Products containing manganese dioxide lithium coin-cell batteries may contain perchlorate. Perchlorate Material - special handling may apply, see www.dtsc.ca.gov/hazardouswaste/perchlorate**

# Appendix B. Compliance information

## Lenovo compliance information Web sites

The latest electronic compliance and environmental information are available from the Lenovo compliance information Web sites.

- To view compliance information, go to https://www.lenovo.com/compliance
- To download environmental declarations, go to https://www.lenovo.com/ecodeclaration

## General recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information about recycling Lenovo products, go to https://www.lenovo.com/recycling.

## Electromagnetic emissions notices

## Federal Communications Commission (FCC) Supplier's Declaration of Conformity

The following information applies to:

| Model Name | Machine Type (MT) |
|---|---|
| IP Flex 3 Chrome 11IJL6 | 82N3 |
| IdeaPad 3 Chrome 15IJL6 | 82N4 |

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 an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by using cables and connectors other than those recommended by Lenovo or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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.

Responsible Party:
Lenovo (United States) Incorporated
7001 Development Drive
Morrisville, NC 27560
Email: FCC@lenovo.com

**FC**

## Location for the FCC ID and IC ID

If you purchased your computer in the United States or Canada and the computer includes factory-preinstalled wireless modules, a piece of text containing identification strings for these modules (FCC ID and IC ID) is visible on the computer's bottom cover. The text may either be laser etched on the bottom cover or on a physical label affixed to it. To obtain the FCC ID or IC ID for the factory-preinstalled wireless module, check the bottom cover for strings directly after "FCC ID" or "IC ID".

## Korea radio frequency compliance statement

무선설비 전파 혼신 (사용주파수 **2400~2483.5 , 5725~5825** 무선제품해당)

해당 무선설비가 전파혼신 가능성이 있으므로 인명안전과 관련된 서비스는 할 수 없음

**SAR** 정보

본 장치는 전파 노출에 대한 가이드라인을 충족합니다.

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# Appendix C. Accessibility, ergonomic, and maintenance information

## Accessibility information

Lenovo is committed to providing users who have hearing, vision, and mobility limitations with greater access to information and technology. This section provides information about the ways these users can get the most out of their computer experience. You also can get the most up-to-date accessibility information from the following Web site:

https://www.lenovo.com/accessibility

**Industry-standard connectors**

Your computer provides industry-standard connectors that enable you to connect assistive devices.

**Documentation in accessible formats**

Lenovo provides electronic documentation in accessible formats, such as properly tagged PDF files or HyperText Markup Language (HTML) files. Lenovo electronic documentation is developed to ensure that visually impaired users can read the documentation through a screen reader. Each image in the documentation also includes adequate alternative text so that visually impaired users can understand the image when they use a screen reader.

## Ergonomic information

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort when using your computer.

Working in the virtual office might mean adapting to frequent changes in your environment. Adapting to the surrounding light sources, active seating, and the placement of your computer hardware, can help you improve your performance and achieve greater comfort.

This example shows someone in a conventional setting. Even when not in such a setting, you can follow many of these tips. Develop good habits, and they will serve you well.



*Figure 7. Illustration of proper seating and computer positioning*

**General posture**: Make minor modifications in your working posture to deter the onset of discomfort caused by long periods of working in the same position. Frequent short breaks from your work also help to prevent minor discomfort associated with your working posture.

**Display**: Position the display to maintain a comfortable viewing distance of 510 mm to 760 mm (20 inches to 30 inches). Avoid glare or reflections on the display from overhead lighting or outside sources of light. Keep the display screen clean and set the brightness to levels that enable you to see the screen clearly. Press the brightness control keys to adjust display brightness.

**Head position**: Keep your head and neck in a comfortable and neutral (vertical, or upright) position.

**Chair**: Use a chair that gives you good back support and seat height adjustment. Use chair adjustments to best suit your comfort posture.

**Arm and hand position**: If available, use chair arm rests or an area on your working surface to provide weight support for your arms. Keep your forearms, wrists, and hands in a relaxed and neutral (horizontal) position. Type with a soft touch without pounding the keys.

**Leg position**: Keep your thighs parallel to the floor and your feet flat on the floor or on a footrest.

**What if you are traveling?**

It might not be possible to observe the best ergonomic practices when you are using your computer while on the move or in a casual setting. Regardless of the setting, try to observe as many of the tips as possible. Sitting properly and using adequate lighting, for example, helps you maintain desirable levels of comfort and performance. If your work area is not in an office setting, ensure to take special note of employing active sitting and taking work breaks. Many product solutions are available to help you modify and expand your computer to best suit your needs. You can find some of these options at https://www.lenovo.com/accessories. Explore your options for docking solutions and external products that provide the adjustability and features that you want.

**Questions about vision?**

The visual display screens of notebook computers are designed to meet the highest standards. These visual display screens provide you with clear, crisp images and large, bright displays that are easy to see, yet easy on the eyes. Any concentrated and sustained visual activity can be tiring. If you have questions on eye fatigue or visual discomfort, consult a vision-care specialist for advice.

# Basic maintenance tips

- Keep your computer away from magnets, activated cellular phones, electrical appliances, or speakers (more than 13 cm or 5 inches).
- Avoid subjecting your computer to extreme temperatures (below 5 ℃/41 ℉ or above 35 ℃/95 ℉).
- Avoid placing any objects (including paper) between the display and the keyboard or the palm rest.
- Do not turn your computer over when the ac power adapter is plugged in, otherwise, it could break the adapter plug.
- Before moving your computer, be sure to remove any media, turn off attached devices, and disconnect cords and cables.
- When picking up your open notebook computer, hold it by the bottom. Do not pick up or hold your notebook computer by the display.
- Avoid directly exposing your computer and peripherals to the air from an appliance that can produce negative ions. Wherever possible, ground your computer to facilitate safe electrostatic discharge.

# Cleaning your computer

It is a good practice to clean your computer periodically to protect the surfaces and ensure trouble-free operation.

**Cleaning the computer cover**

Wipe it with a lint-free cloth dampened in mild soap and water. Avoid applying liquids directly to the cover.

**Cleaning the keyboard**

Wipe the keys one by one with a lint-free cloth dampened in mild soap and water. If you wipe several keys at a time, the cloth might hook onto an adjacent key and possibly damage it. Avoid spraying cleaner directly onto the keyboard. To remove any crumbs or dust from beneath the keys, you can use a camera blower with a brush or use cool air from a hair dryer.

**Cleaning the computer screen**

Scratches, oil, dust, chemicals, and ultraviolet light can affect the performance of your computer screen. Use a dry, soft lint-free cloth to wipe the screen gently. If you see a scratch-like mark on your screen, it might be a stain. Wipe or dust the stain gently with a soft, dry cloth. If the stain remains, moisten a soft, lint-free cloth with water or eyeglass cleaner, but do not apply liquids directly to your computer screen. Ensure that the computer screen is dry before closing it.

# Appendix D.  Open source information

Your Chromebook may include software made publicly available by Google and other third parties, including software licensed under the General Public License and/or the Lesser General Public License (the "open source software").

You may obtain a copy of the corresponding source code for any such open source software licensed under the General Public License and/or the Lesser General Public License (or any other license requiring us to make a written offer to provide corresponding source code to you) from Lenovo for a period of three years without charge except for the cost of media, shipping, and handling, upon written request to Lenovo. This offer is valid to anyone in receipt of this device. You may send your request in writing to the address below accompanied by a check or money order for $5 to:

*Lenovo Legal Department*
*Attn: Open Source Team / Source Code Requests*
*8001 Development Dr.*
*Morrisville, NC 27560*

As part of your request, please include a "UNAME" and a "CHROME VERSION" of this device available by typing: "Chrome://system" in a Chrome Browser's address bar. Be sure to provide a return address.

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