

HDMI[™]
HIGH-DEFINITION MULTIMEDIA INTERFACE



E16622

First Edition / April 2020

IN SEARCH OF INCREDIBLE

E-Manual

ASUS

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About this manual

This manual provides information about the hardware and software features of your Notebook PC, organized through the following chapters:

Chapter 1: Hardware Setup

This chapter details the hardware components of your Notebook PC.

Chapter 2: Using your Notebook PC

This chapter shows you how to use the different parts of your Notebook PC.

Chapter 3: Working with Windows® 10

This chapter provides an overview of using Windows® 10 in your Notebook PC.

Chapter 4: Power-On Self-Test (POST)

This chapter shows you how to use POST to change the settings of your Notebook PC.

Tips and FAQs

This section presents some recommended tips, hardware FAQs, and software FAQs you can refer to for maintaining and fixing common issues with your Notebook PC.

Appendices

This section includes notices and safety statements for your Notebook PC.

Conventions used in this manual

To highlight key information in this manual, some text are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing tasks and prevent damage to your Notebook PC's data and components.

Icons

The icons below indicate the devices you can use for completing a series of tasks or procedures on your Notebook PC.



= Use the touch screen panel.



= Use the touchpad.



= Use the keyboard.

Typography

Bold = This indicates a menu or an item that must be selected.

Italic = This indicates sections that you can refer to in this manual.

Safety precautions

Using your Notebook PC



This Notebook PC should only be used in environments with ambient temperatures between 5°C (41°F) and 35°C (95°F).



Refer to the rating label on the bottom of your Notebook PC and ensure that your power adapter complies with this rating.



Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.



Do not use damaged power cords, accessories, and other peripherals with your Notebook PC.



While powered on, ensure that you do not carry or cover your Notebook PC with any materials that can reduce air circulation.



Do not place your Notebook PC on uneven or unstable work surfaces.



You can send your Notebook PC through x-ray machines (used on items placed on conveyor belts), but do not expose them to magnetic detectors and wands.



Contact your airline provider to learn about related in-flight services that can be used and restrictions that must be followed when using your Notebook PC in-flight.

Caring for your Notebook PC



Disconnect the AC power and remove the battery pack (if applicable) before cleaning your Notebook PC. Use a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water. Remove any extra moisture from your Notebook PC using a dry cloth.



Do not use strong solvents such as thinners, benzene, or other chemicals on or near your Notebook PC.



Do not place objects on top of your Notebook PC.



Do not expose your Notebook PC to strong magnetic or electrical fields.



Do not use or expose your Notebook PC near liquids, rain, or moisture.



Do not expose your Notebook PC to dusty environments.



Do not use your Notebook PC near gas leaks.

Proper disposal



Do not throw your Notebook PC in municipal waste. This product has been designed to enable proper reuse of parts and recycling. The symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment and mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.



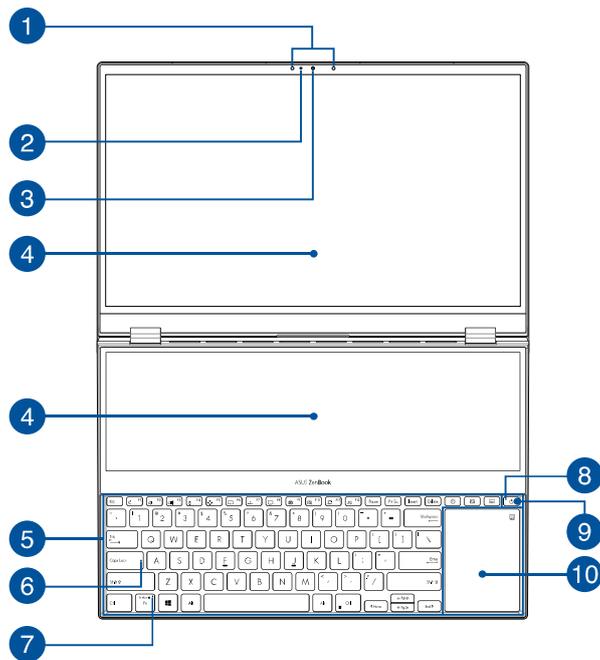
Do not throw the battery in municipal waste. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.

Chapter 1: Hardware Setup

Getting to know your Notebook PC

Top View

NOTE: The keyboard's layout may vary per region or country. The Notebook view may also vary in appearance depending on the Notebook PC model.



1 Array microphones

The array microphones feature echo canceling, noise suppression, and beam forming functions for better voice recognition and audio recording.

2 Camera indicator

The camera indicator lights up when the built-in camera is in use.

3 Camera

The built-in camera allows you to take pictures or record videos using your Notebook PC.

4 Display panel

This high-definition display panel provides excellent viewing features for photos, videos, and other multimedia files on your Notebook PC.

Touch screen panel

This high-definition touch screen panel provides excellent viewing features for photos, videos, and other multimedia files on your Notebook PC. It also allows you to operate it using touch screen gestures.

NOTE: For more details, refer to the *Using touch screen panel gestures* section in this manual.

5 Keyboard

The keyboard provides full-sized QWERTY keys with a comfortable travel depth for typing. It also enables you to use the function keys, allows quick access to Windows®, and controls other multimedia functions.

NOTE: The keyboard layout differs by model or territory.

6 Capital lock indicator

This indicator lights up when the capital lock function is activated. Using capital lock allows you to type capitalized letters (such as A, B, C) using your Notebook PC's keyboard.

7 Function key lock indicator

This indicator lights up when the function keys feature is activated.

NOTE: For more details, refer to the *Using the keyboard* section in this manual.

8 Power indicator

The power indicator lights up when the Notebook PC is turned on and blinks slowly when the Notebook PC is in sleep mode.

9 Power button

Press the power button to turn your Notebook PC on or off. You can also use the power button to put your Notebook PC to sleep or hibernate mode and wake it up from sleep or hibernate mode.

In the event that your Notebook PC becomes unresponsive, press and hold the power button for at least four (4) seconds until your Notebook PC shuts down.

10 Touchpad/NumberPad

This allows you to toggle between touchpad and NumberPad.

The touchpad allows the use of multi-gestures to navigate onscreen, providing an intuitive user experience. It also simulates the functions of a regular mouse.

NOTE: For more details, refer to the *Using the touchpad* section in this manual.

The NumberPad allows the use of numeric input.

NOTE: For more details, refer to the *Using the NumberPad* section in this manual.

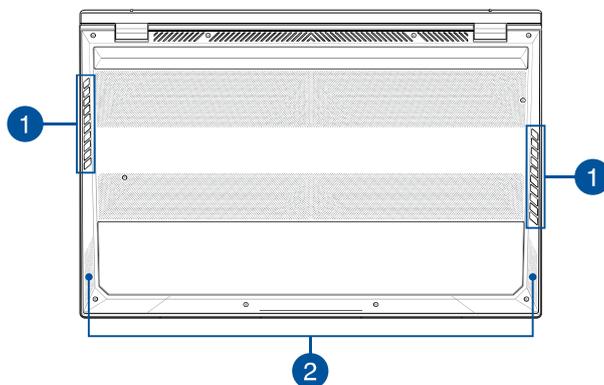
Bottom View

NOTE: The bottom view may vary in appearance depending on model.

WARNING! Your Notebook PC can get warm to hot while in use or while charging the battery pack. Do not leave your Notebook PC on your lap or near any part of your body to prevent injury from heat. When working on your Notebook PC, do not place it on surfaces that can block the vents.

IMPORTANT!

- Battery time varies by usage and by the specifications for this Notebook PC. The battery pack cannot be disassembled.
 - Purchase components from authorized retailers to ensure maximum compatibility and reliability. Consult an ASUS service center or authorized retailers for product service or assistance on proper disassembly or assembly of the product.
-



1 Air vents

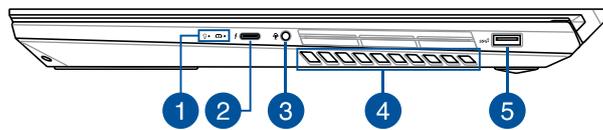
The air vents allow cool air to enter and warm air to exit the Notebook PC.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

2 Audio speakers

The built-in audio speakers allow you to hear audio straight from your Notebook PC. Audio features are software-controlled.

Right View



1 Status indicators

The status indicators help identify the current hardware status of your Notebook PC.



Power indicator

The power indicator lights up when the Notebook PC is turned on and blinks slowly when the Notebook PC is in sleep mode.

Two-color battery charge indicator

The two-color LED provides a visual indication of the battery's charge status. Refer to the following table for details:

Color	Status
Solid White	The Notebook PC is plugged to a power source and the battery power is between 95% and 100%.
Solid Orange	The Notebook PC is plugged to a power source, charging its battery, and the battery power is less than 95%.
Blinking Orange	The Notebook PC is running on battery mode and the battery power is less than 10%.
Lights off	The Notebook PC is running on battery mode and the battery power is between 10% to 100%.

2 USB 3.2 Gen 2 Type-C®/Thunderbolt 3 combo port

The USB 3.2 (Universal Serial Bus 3.2) Gen 2 Type-C® port provides a transfer rate of up to 10 Gbit/s and is backward compatible to USB 2.0. Use a Thunderbolt 3 adapter to connect your Notebook PC to a DisplayPort, VGA, DVI, or HDMI external display and experience high-resolution display features via Intel® Thunderbolt™ technology.

NOTE: Transfer rate of this port may vary per model.

3 Headphone/Headset/Microphone jack

This port allows you to connect amplified speakers or headphones. You can also use this port to connect your headset or an external microphone.

4 Air vents

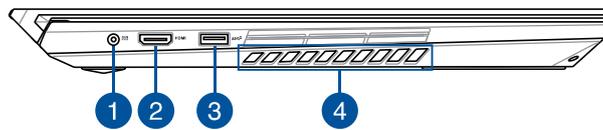
The air vents allow cool air to enter and warm air to exit the Notebook PC.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

5 USB 3.2 Gen 2 port

The USB 3.2 (Universal Serial Bus 3.2) Gen 2 port provides a transfer rate of up to 10 Gbit/s and is backward compatible to USB 2.0.

Left View



1 Power (DC) input port

Insert the bundled power adapter into this port to charge the battery pack and supply power to your Notebook PC.

WARNING! The adapter may become warm to hot while in use. Do not cover the adapter and keep it away from your body while it is connected to a power source.

IMPORTANT! Use only the bundled power adapter to charge the battery pack and supply power to your Notebook PC.

2 HDMI port

This port is for the HDMI (High-Definition Multimedia Interface) connector and is HDCP compliant for HD DVD, Blu-ray, and other protected content playback.

3 USB 3.2 Gen 2 port

The USB 3.2 (Universal Serial Bus 3.2) Gen 2 port provides a transfer rate of up to 10 Gbit/s and is backward compatible to USB 2.0.

4 Air vents

The air vents allow cool air to enter and warm air to exit the Notebook PC.

WARNING! Ensure that paper, books, clothing, cables, or other objects do not block any of the air vents or else overheating may occur.

Chapter 2: ***Using your Notebook PC***

Getting started

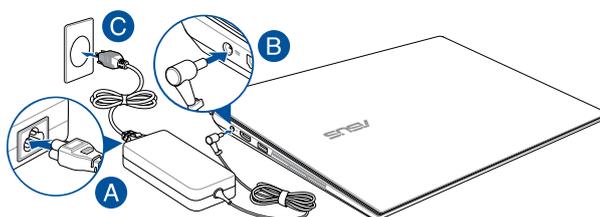
Charge your Notebook PC

- A. Connect the AC power cord to the AC/DC adapter.
- B. Connect the DC power connector into your Notebook PC's power (DC) input port.
- C. Plug the AC power adapter into a 100V~240V power source.



Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.

NOTE: The power adapter may vary in appearance, depending on models and your region.



IMPORTANT!

Power adapter information:

- Input voltage: 100-240Vac
- Input frequency: 50-60Hz
- Rating output current: 11.8A (230W)
- Rating output voltage: 19.5V

IMPORTANT!

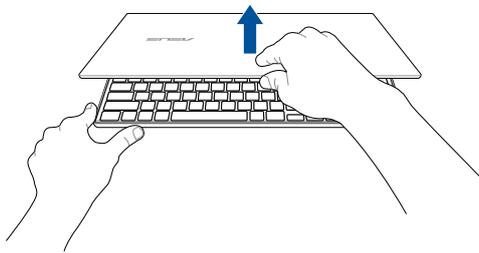
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
- Ensure that your Notebook PC is connected to the power adapter before turning it on for the first time. We strongly recommend that you use a grounded wall socket while using your Notebook PC on power adapter mode.
- The socket outlet must be easily accessible and near your Notebook PC.
- To disconnect your Notebook PC from its main power supply, unplug your Notebook PC from the power socket.

WARNING!

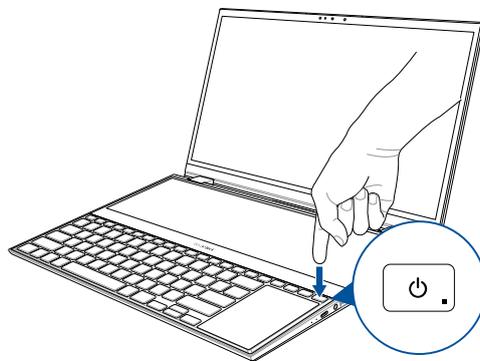
Read the following precautions for your Notebook PC's battery:

- Only ASUS-authorized technicians should remove the battery inside the device (for non-removable battery only).
- The battery used in this device may present a risk of fire or chemical burn if removed or disassembled.
- Follow the warning labels for your personal safety.
- Risk of explosion if battery is replaced by an incorrect type.
- Do not dispose of in fire.
- Never attempt to short-circuit your Notebook PC's battery.
- Never attempt to disassemble and reassemble the battery (for non-removable battery only).
- Discontinue usage if leakage is found.
- The battery and its components must be recycled or disposed of properly.
- Keep the battery and other small components away from children.

Lift to open the display panel



Press the power button



Gestures for the touch screen panel and touchpad

Gestures allow you to launch programs and access the settings of your Notebook PC. Refer to the following illustrations when using hand gestures on your touch screen panel and touchpad.

NOTE: The following screenshots are for reference only. The touch screen panel's appearance may vary depending on model.

Using touch screen panel gestures

The gestures allow you to launch programs and access the settings of your Notebook PC. The functions can be activated by using the hand gestures on your Notebook PC's touch screen panel.

Left edge swipe



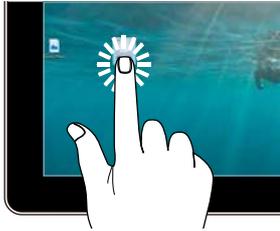
Swipe from the left edge of the screen to launch **Task view**.

Right edge swipe



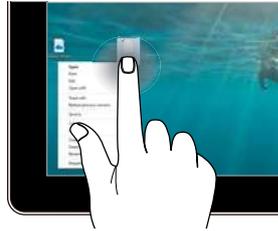
Swipe from the right edge of the screen to launch **Action Center**.

Tap/Double-tap



- Tap an app to select it.
- Double-tap an app to launch it.

Press and hold



Press and hold to open the right-click menu.

Zoom in



Spread apart your two fingers on the touch screen panel.

Zoom out



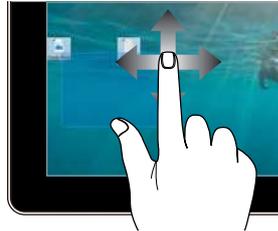
Bring together your two fingers on the touch screen panel.

Finger slide



Slide your finger to scroll up and down and slide your finger to pan the screen left or right.

Drag



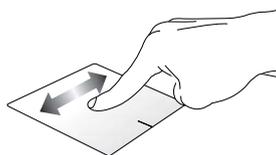
- Drag to create a selection box around multiple items.
- Drag and drop an item to move it to a new location.

Using the touchpad

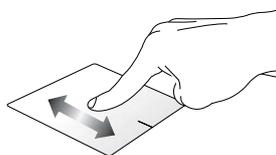
Moving the pointer

You can tap anywhere on the touchpad to activate its pointer, then slide your finger on the touchpad to move the pointer onscreen.

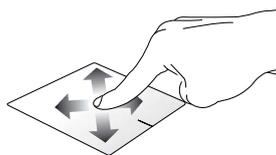
Slide horizontally



Slide vertically

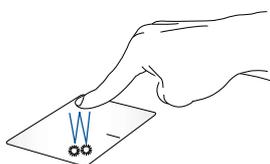


Slide diagonally



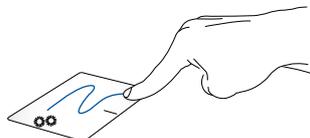
One-finger gestures

Tap/Double-tap



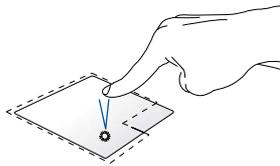
- Tap an app to select it.
- Double-tap an app to launch it.

Drag and drop

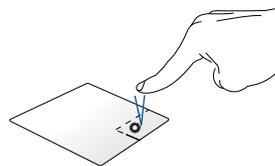


Double-tap an item, then slide the same finger without lifting it off the touchpad. To drop the item to its new location, lift your finger from the touchpad.

Left-click



Right-click

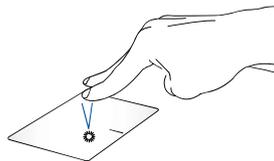


- Click an app to select it.
 - Double-click an app to launch it.
- Click this button to open the right-click menu.

NOTE: The areas inside the dotted line represent the locations of the left mouse button and the right mouse button on the touchpad.

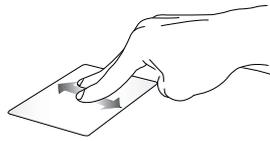
Two-finger gestures

Tap



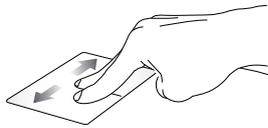
Tap two fingers on the touchpad to simulate the right-click function.

Two-finger scroll (up/down)



Slide two fingers to scroll up or down.

Two-finger scroll (left/right)



Slide two fingers to scroll left or right.

Zoom out



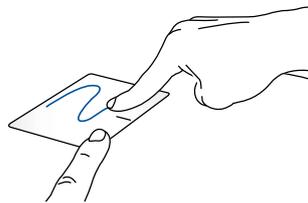
Bring together your two fingers on the touchpad.

Zoom in



Spread apart your two fingers on the touchpad.

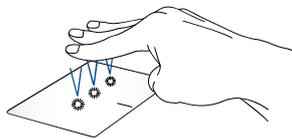
Drag and drop



Select an item then press and hold the left button. Using your other finger, slide on the touchpad to drag the item, lift your finger off the button to drop the item.

Three-finger gestures

Tap



Tap three fingers on the touchpad to invoke Cortana.

Swipe left/Swipe right



If you opened multiple apps, swipe three fingers left or right to switch between these apps.

Swipe up



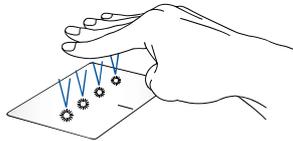
Swipe down



Swipe up to see an overview of all the apps currently opened. Swipe down to show the desktop.

Four-finger gestures

Tap



Tap four fingers on the touchpad to invoke Action Center.

Customizing your touchpad

1. Launch **All settings** from the Action Center.
2. Select **Devices**, then select **Touchpad**.
3. Adjust the settings to your preference.

Using the keyboard

HotKeys

The HotKeys on your Notebook PC's keyboard can trigger the following commands:

-  F1 Turns the speaker on or off
-  F2 Turns the speaker volume down
-  F3 Turns the speaker volume up
-  F4 Decreases display brightness
-  F5 Increases display brightness
-  F6 Enables or disables the touchpad
-  F7 Adjusts brightness for the backlit keyboard
-  F8 Toggles the display mode

NOTE: Ensure that the second display is connected to your Notebook PC.

-  Activates the Lock screen
-  Turns the camera on or off
-  Activates screen capture tool
-  Launches My ASUS

Function keys

Press  +  to enable or disable the function keys feature.

When the function keys feature is enabled, you can also access HotKeys by holding down  in combination with the top row keys.

Windows® 10 keys

There are two special Windows® keys on your Notebook PC's keyboard used as below:

-  Launches the Start menu
-  Displays the drop-down menu*

** On selected models*

Other keys



Toggles the Turbo Fan



Switches all the windows between the two screen panels



Enables or disables the screen panel on the keyboard

Using the NumberPad

NOTE: The NumberPad layout may differ by model or territory but the usage procedures remain the same.



Press  to toggle between number keys or touchpad.

⚙			📄
=	%	←	
7	8	9	/
4	5	6	*
1	2	3	-
0		Enter	+

Chapter 3: ***Working with Windows® 10***

Starting for the first time

When you start your Notebook PC for the first time, a series of screens appear to guide you in configuring your Windows® 10 operating system.

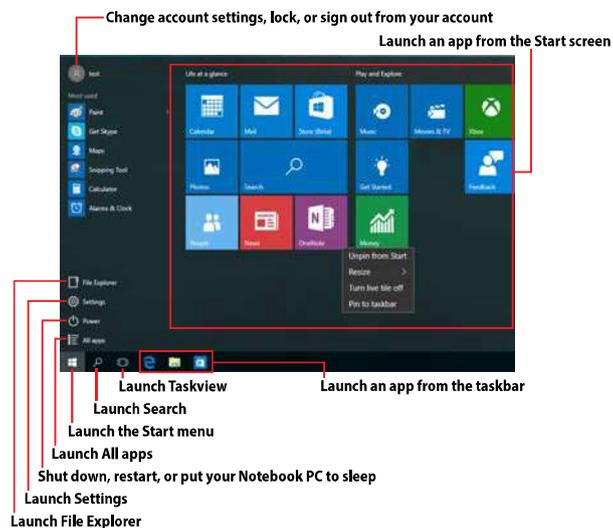
To start your Notebook PC for the first time:

1. Press the power button on your Notebook PC. Wait for a few minutes until the setup screen appears.
2. From the setup screen, pick your region and a language to use on your Notebook PC.
3. Carefully read the License Terms. Select **I accept**.
4. Follow the onscreen instructions to configure the following basic items:
 - Personalize
 - Get online
 - Settings
 - Your account
5. After configuring the basic items, Windows® 10 proceeds to install your apps and preferred settings. Ensure that your Notebook PC is kept powered on during the setup process.
6. Once the setup process is complete, the Desktop appears.

NOTE: The screenshots in this chapter are for reference only.

Start menu

The Start menu is the main gateway to your Notebook PC's programs, Windows® apps, folders, and settings.



You can use the Start menu to do these common activities:

- Start programs or Windows® apps
- Open commonly used programs or Windows® apps
- Adjust Notebook PC settings
- Get help with the Windows operating system
- Turn off your Notebook PC
- Log off from Windows or switch to a different user account

Launching the Start menu



Tap the Start button  in the lower-left corner of your desktop.



Position your mouse pointer over the Start button  in the lower-left corner of your desktop then click it.



Press the Windows logo key  on your keyboard.

Opening programs from the Start menu

One of the most common uses of the Start menu is opening programs installed on your Notebook PC.



Tap the program to launch it.



Position your mouse pointer over the program then click to launch it.



Use the arrow keys to browse through the programs.

Press  to launch it.

NOTE: Select **All apps** at the bottom of the left pane to display a full list of programs and folders on your Notebook PC in alphabetical order.
