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First Edition  
March 2016



# 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.



Do not leave your Notebook PC on your lap or near any part of your body to prevent discomfort or injury from heat exposure.



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:***

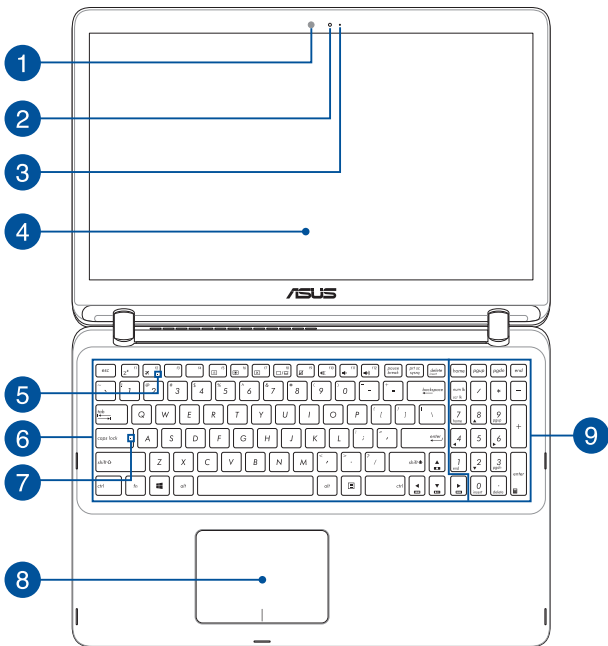
## ***Hardware Setup***

# 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.

### Standard model



### 1 Ambient light sensor

The ambient light sensor detects the amount of ambient light in your environment. It allows the system to automatically adjust the brightness of the display depending on the ambient light condition.

### 2 Camera

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

### 3 Camera indicator

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

### 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 (on selected models)

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 Airplane mode indicator

This indicator lights up when the Airplane mode in your Notebook PC is enabled.

---

**NOTE:** When enabled, the **Airplane mode** disables all wireless connectivity.

---

## 6 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.

---

## 7 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.



## 8 Touchpad

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.

---

## 9 Numeric keypad

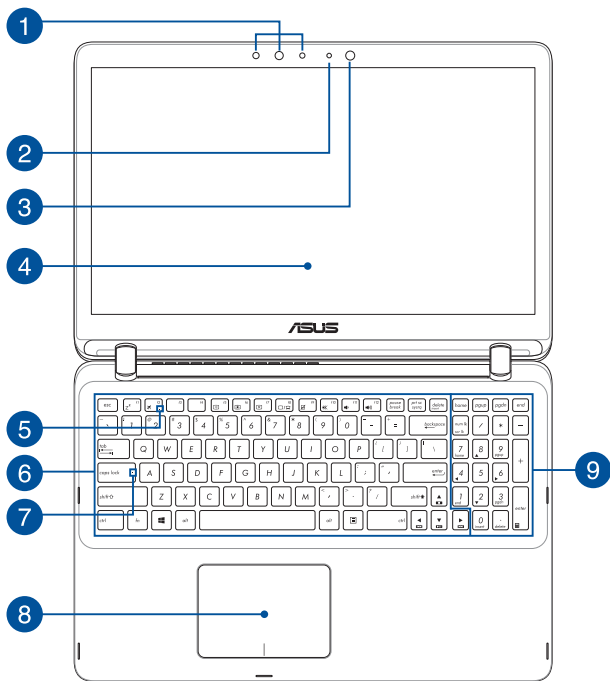
The numeric keypad toggles between these two functions: for numeric input and as pointer direction keys.

---

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

---

## IR Camera model



## 1 IR Camera

The built-in camera allows you to take pictures or record videos using your Notebook PC. The IR Camera also supports Windows Hello.

---

**NOTE:**

- When you sign in with Windows Hello, the set up screen will be in black and white color.
  - The red IR LED blinks in the process while data is being read before you sign in with Windows Hello facial recognition.
- 

## 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.

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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.

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

---

#### 5 Airplane mode indicator

This indicator lights up when the Airplane mode in your Notebook PC is enabled.

---

**NOTE:** When enabled, the **Airplane mode** disables all wireless connectivity.

---

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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.

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**NOTE:** The keyboard layout differs by model or territory.

---

## 7 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.

## 8 Touchpad

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.

---

## 9 Numeric keypad

The numeric keypad toggles between these two functions: for numeric input and as pointer direction keys.

---

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

---

## Bottom

---

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

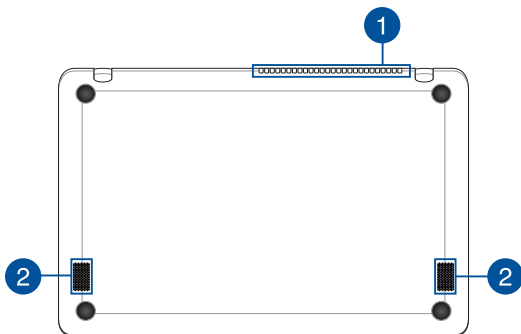
---

**WARNING!** The bottom of the Notebook PC can get warm to hot while in use or while charging the battery pack. 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.

---



## 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.

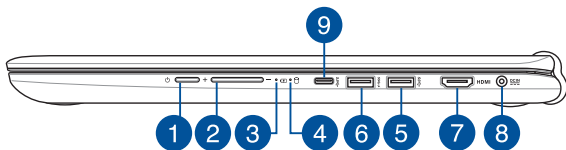
---

## 2 Audio speakers

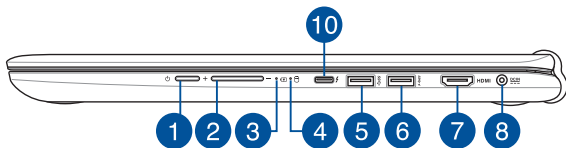
The built-in audio speakers allow you to hear audio straight from your Notebook PC. Audio features are software-controlled.

## Right Side

### Standard model



### IR Camera model



#### 1 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.

#### 2 Volume button

This button turns the volume up or down on your Notebook PC.



### 3 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
<b>Solid Green</b>	The Notebook PC is plugged to a power source and the battery power is between 95% and 100%.
<b>Solid Orange</b>	The Notebook PC is plugged to a power source, charging its battery, and the battery power is less than 95%.
<b>Blinking Orange</b>	The Notebook PC is running on battery mode and the battery power is less than 10%.
<b>Lights off</b>	The Notebook PC is running on battery mode and the battery power is between 10% to 100%.

### 4 Drive activity indicator

This indicator lights up when your Notebook PC is accessing the internal storage drives

### 5 USB 3.0 port

The USB 3.0 (Universal Serial Bus 3.0) port provides a transfer rate of up to 5 Gbit/s and is backward compatible to USB 2.0.

## 6 USB 3.0 port with USB Charger+

The USB 3.0 (Universal Serial Bus 3.0) port provides a transfer rate of up to 5 Gbit/s and is backward compatible to USB 2.0. The ⚡ icon indicates this port's USB Charger+ feature which allows you to quick-charge mobile devices.

## 7 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.

## 8 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.

---

## 9 USB Type-C port

The USB (Universal Serial Bus) Type-C port provides a transfer rate of up to 5 Gbit/s and is backward compatible to USB 2.0.

---

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

---

## 10 USB Type-C/Thunderbolt 3 combo port

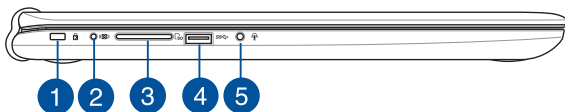
The USB 3.1 (Universal Serial Bus 3.1) port provides a transfer rate up to 10 Gbit/s and is backward compatible to USB 2.0. Use a Thunderbolt 3 adapter to connect your Notebook PC to a DisplayPort, VGA, DVI, or HDMI external display and experience high-resolution display features via Intel® Thunderbolt™ technology.

---

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

---

## Left Side



### 1 Kensington® security slot

The Kensington® security slot allows you to secure your Notebook PC using Kensington® compatible Notebook PC security products.

### 2 Subwoofer jack port (on selected models)

The subwoofer jack port is used to connect the subwoofer to your Notebook PC.

### 3 Memory card reader

This built-in memory card reader supports SD card formats.

### 4 USB 3.0 port

The USB 3.0 (Universal Serial Bus 3.0) port provides a transfer rate of up to 5 Gbit/s and is backward compatible to USB 2.0.

### 5 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.

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

# Getting started

## Charge your Notebook PC

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

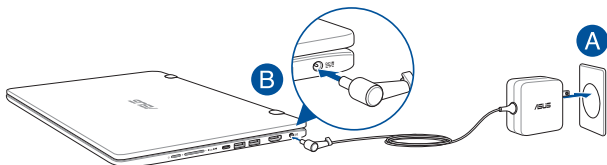


Charge the Notebook PC for **3 hours** before using it in battery mode for the first time.

---

**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: 2.37A (45W) / 3.42A (65W) / 4.74A (90W)
  - Rating output voltage: 19V
-

---

**IMPORTANT!**

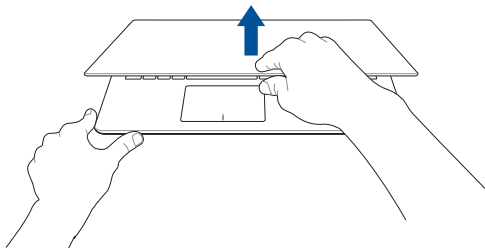
- Locate the input/output rating label on your Notebook PC and ensure that it matches the input/output rating information on your power adapter. Some Notebook PC models may have multiple rating output currents based on the available SKU.
  - Ensure that your Notebook PC is connected to the power adapter 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!**

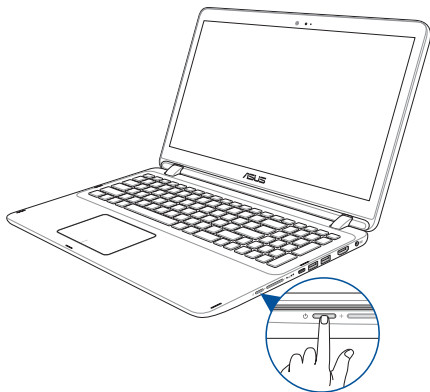
Read the following precautions for your Notebook PC's battery:

- 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.
  - The touch screen panel is available on selected models.
- 

## Using touch screen panel gestures

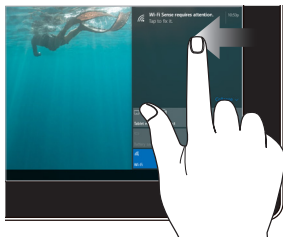
The gestures allow you to launch programs and access the settings of your Notebook PC. The functions can be activated by using the hand gestures on your Notebook PC's touch screen panel.

### Left edge swipe



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

### Right edge swipe



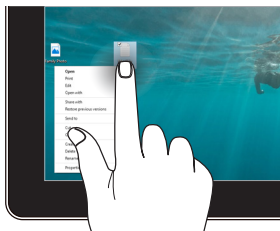
Swipe from the right edge of the screen to launch **Action Center**.

## Tap/Double-tap



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

## Press and hold



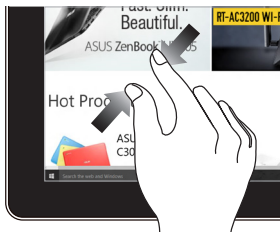
Press and hold to open the right-click menu.

## Zoom in



Spread apart your two fingers on the touch screen panel.

## Zoom out



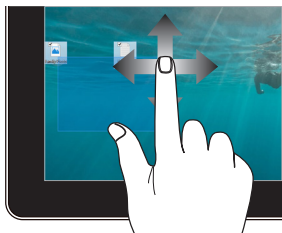
Bring together your two fingers on the touch screen panel.

## Finger slide



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

## Drag



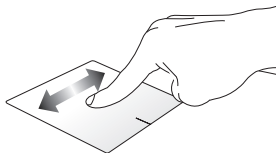
- Drag to create a selection box around multiple items.
- Drag and drop an item to move it to a new location.

## Using the touchpad

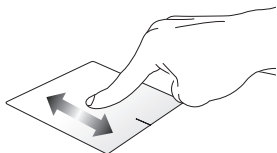
### Moving the pointer

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

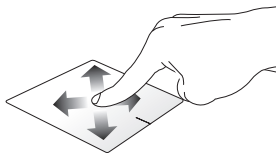
#### Slide horizontally



#### Slide vertically

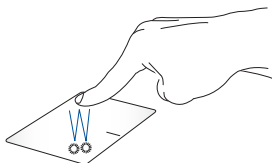


#### Slide diagonally



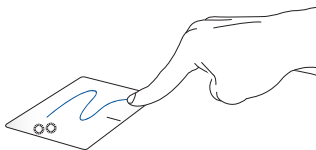
## One-finger gestures

### Tap/Double-tap



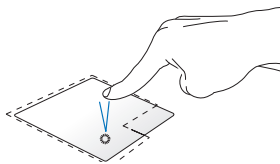
- Tap an app to select it.
- Double-tap an app to launch it.

### Drag and drop



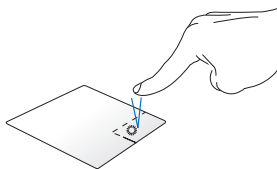
Double-tap an item, then slide the same finger without lifting it off the touchpad. To drop the item to its new location, lift your finger from the touchpad.

## Left-click



- Click an app to select it.
- Double-click an app to launch it.

## Right-click



Click this button to open the right-click menu.

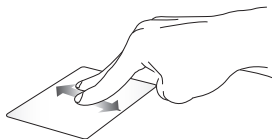
---

**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

### Two-finger scroll (up/down)



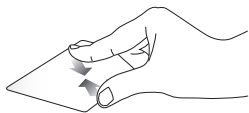
Slide two fingers to scroll up or down.

### Two-finger scroll (left/right)



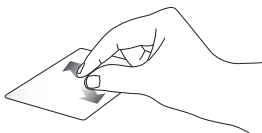
Slide two fingers to scroll left or right.

### Zoom out



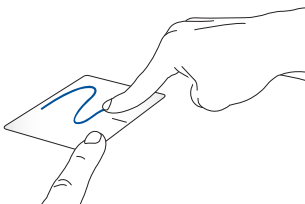
Bring together your two fingers on the touchpad.

### 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.

# Using the keyboard

## Function keys

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



Puts the Notebook PC into **Sleep mode**



Turns **Airplane mode** on or off

---

**NOTE:** When enabled, the **Airplane mode** disables all wireless connectivity.

---



Decreases display brightness



Increases display brightness



Turns the display panel on or off





Toggles the display mode



---



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



---



 +  Enables or disables the touchpad

 +  Turns the speaker on or off


 +  Turns the speaker volume down

 +  Turns the speaker volume up

## Windows® 10 keys


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

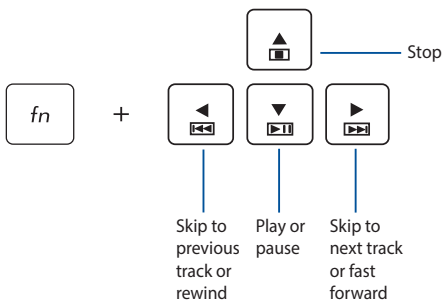
 Launches the Start menu

 Displays the drop-down menu

## Multimedia control keys

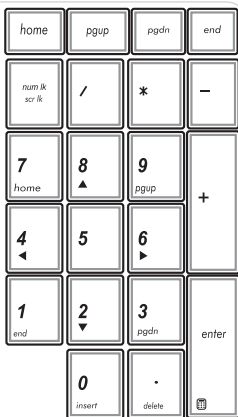
The multimedia control keys allow you to control multimedia files, such as audios and videos, when played in your Notebook PC.

Press  in combination with the arrow keys on your Notebook PC, illustrated as below.



## Using the numeric keypad

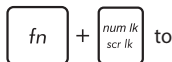
**NOTE:** The numeric keypad layout may differ by model or territory but the usage procedures remain the same.



A numeric keypad is available on selected Notebook PC models. You can use this keypad for numeric input or as pointer direction keys.



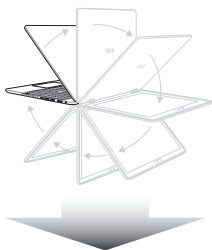
Press



toggle between using the keypad as number keys or as pointer direction keys.

## Rotating the display panel

Your Notebook PC's display panel is adjustable up to 360 degrees. You may adjust the display panel as shown below.



360 degrees adjustable



Notebook PC mode



Stand mode



Tent mode



Tablet mode

---

**NOTE:** Rotating the screen to Stand, Tent and Tablet mode will disable the keyboard and touchpad.

---

# ***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.

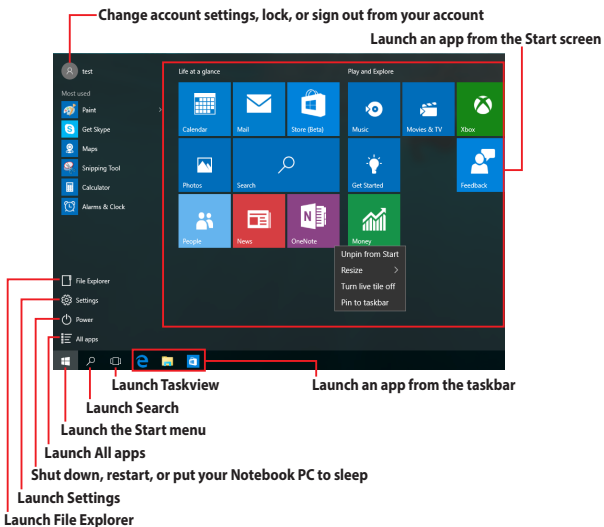
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**NOTE:** The screenshots in this chapter are for reference only.

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# 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.

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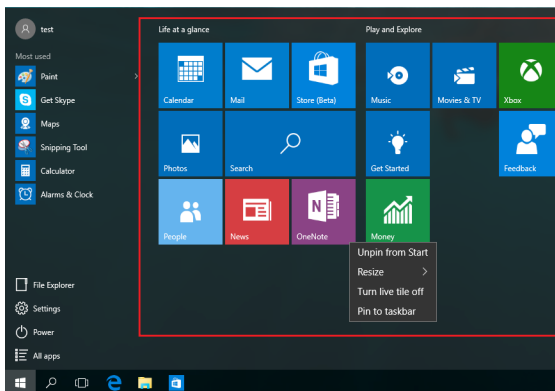
# Windows® apps

These are apps pinned on the right pane of the Start menu and displayed in tiled-format for easy access.

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**NOTE:** Some Windows® apps require signing in to your Microsoft account before they are fully launched.

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## Working with Windows® apps

Use your Notebook PC's touch screen, touchpad, or keyboard to launch, customize, and close apps.

### Launching Windows® apps from the Start menu



Tap the app to launch it.



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



Use the arrow keys to browse through the apps. Press



to launch an app.

## Customizing Windows® apps

You can move, resize, unpin, or pin apps to the taskbar from the Start menu using the following steps:

### Moving apps



Press and hold the app, then drag and drop it to a new location.



Position your mouse pointer over the app, then drag and drop the app to a new location.