

## ***Chapter 3:*** ***Working with Windows***

# 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 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 Agreement. Select **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 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.

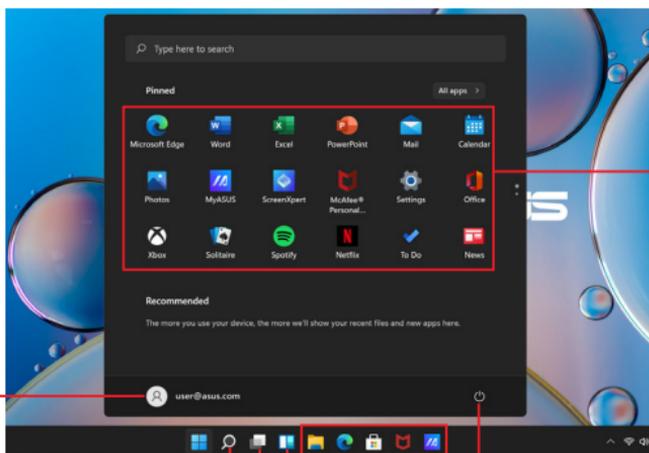
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# Start menu

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

**Change account settings, lock, or sign out from your account**

**Launch an app from the Start menu**



**Launch the Start menu**

**Launch Search**

**Launch Task view**

**Launch Widgets**

**Shut down, restart, or put your Notebook PC to sleep**

**Launch an app from the taskbar**

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 icon  on your desktop.



Position your mouse pointer over the Start icon  on 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.

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

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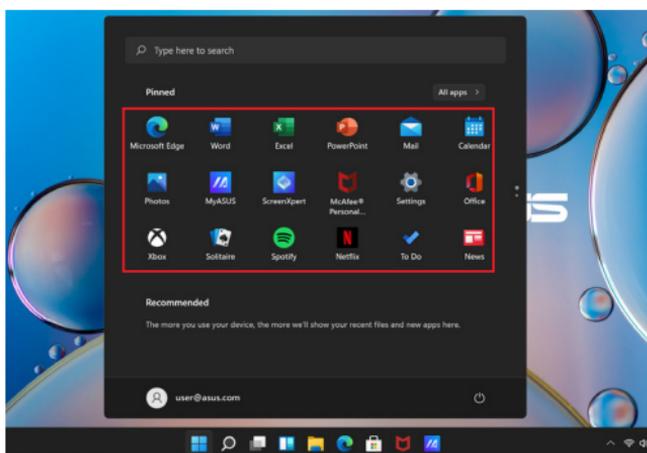
# Windows apps

These are apps pinned on the 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

### 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, 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.

## Unpinning apps



Press and hold the app, then tap **Unpin from Start**.



Position your mouse pointer over the app and right-click it, then click **Unpin from Start**.



Use the arrow keys to navigate to the app.

Press  or  +  (on selected models), then select **Unpin from Start**.

## Pinning apps to the taskbar



Press and hold the app, then tap **Pin to taskbar**.



Position your mouse pointer over the app and right-click it, then click **Pin to taskbar**.



Use the arrow keys to navigate to the app.

Press  or  +  (on selected models), then select **Pin to taskbar**.

## Pinning more apps to the Start menu



From **All apps**, press and hold the app you want to add to the Start menu, then tap **Pin to Start**.



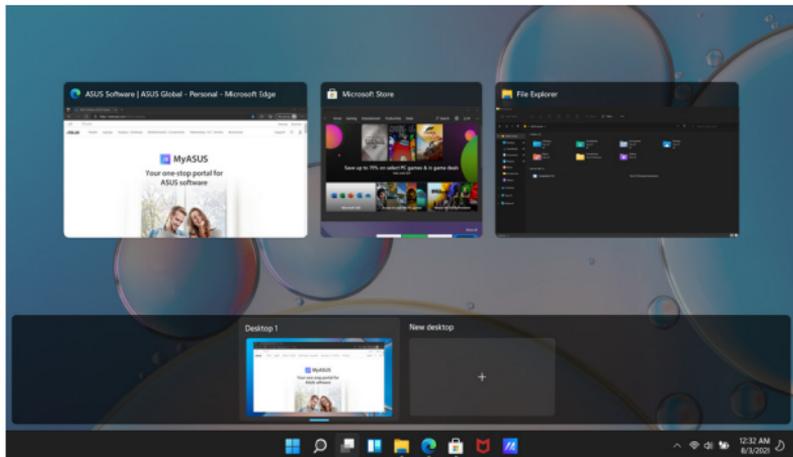
From **All apps**, position your mouse pointer over the app you want to add to the Start menu and right-click it, then click **Pin to Start**.



From **All apps**, press  or  +  (on selected models) on the app that you want to add to the Start menu, then select **Pin to Start**.

# Task view

Quickly switch between opened apps and programs using the Task view feature, you can also use Task view to switch between desktops.



## Launching Task view



Tap the  icon on the taskbar or swipe from the bottom edge of the screen.



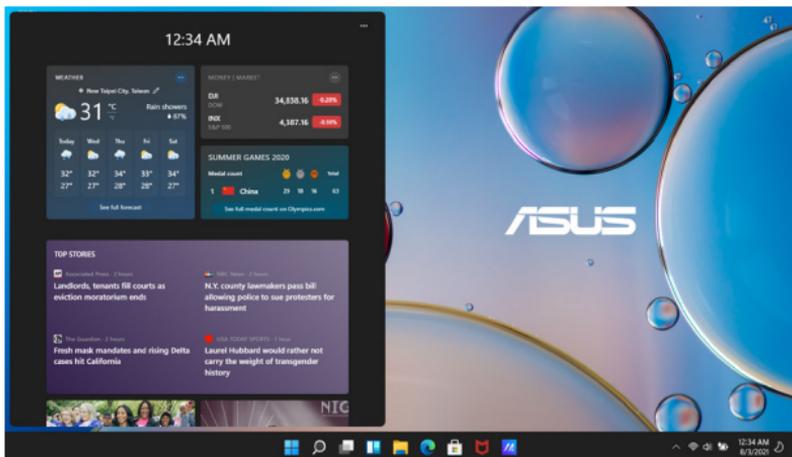
Position your mouse pointer over the  icon on the taskbar and click it.



Press  +  on your keyboard.

# Widgets

You can launch Widgets for quick access of important info.



## Launching Widgets



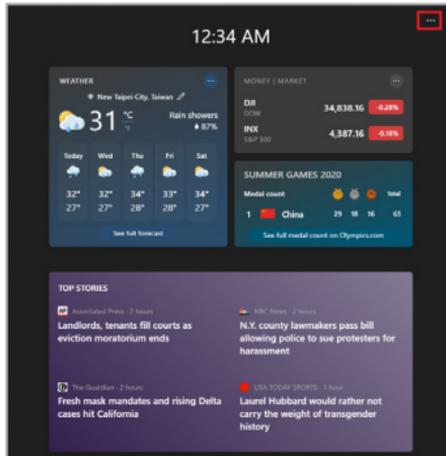
Tap the  icon on the taskbar.



Position your mouse pointer over the  icon on the taskbar and click it.



Press  +  on your keyboard.



## Customizing Widgets



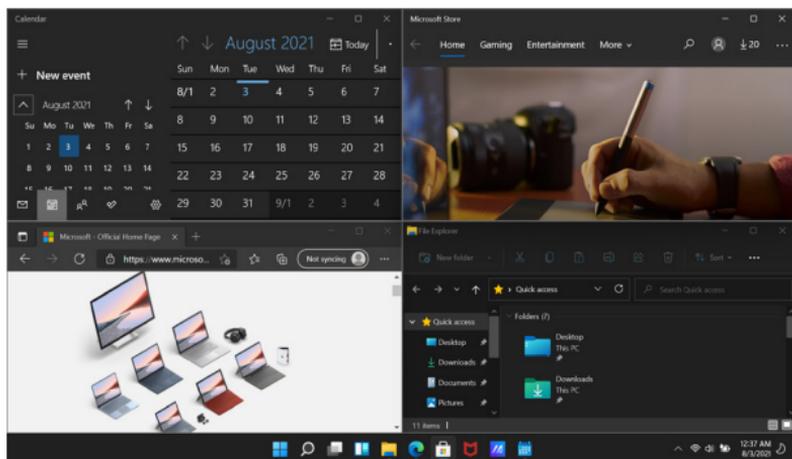
Click/Tap the ●●● icon, then select **Manage interests** to change the content that shows up in the Widgets.

OR



## Snap feature

The Snap feature displays apps side-by-side, allowing you to work or switch between apps.



## Snap hotspots

You can drag and drop apps to these hotspots to snap them into place.



## Using Snap



or



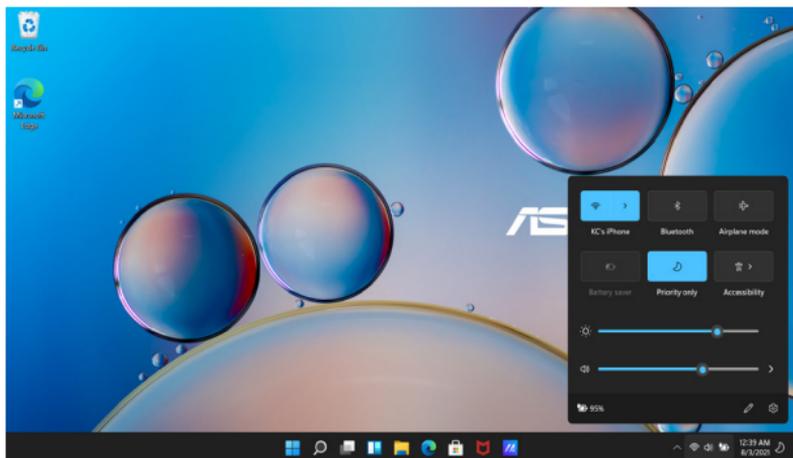
1. Launch the app you wish to snap.
2. Drag the title bar of your app and drop the app to the edge of the screen to snap.
3. Launch another app and repeat the above steps to snap another app.



1. Launch the app you wish to snap.
2. Press and hold the  key, then use the arrow keys to snap the app.
3. Launch another app and repeat the above steps to snap another app.

# Action Center

Action Center consolidates notifications from apps and presents a single place where you can interact with them. It also has a really useful Quick Actions section.



## Launching Quick Actions



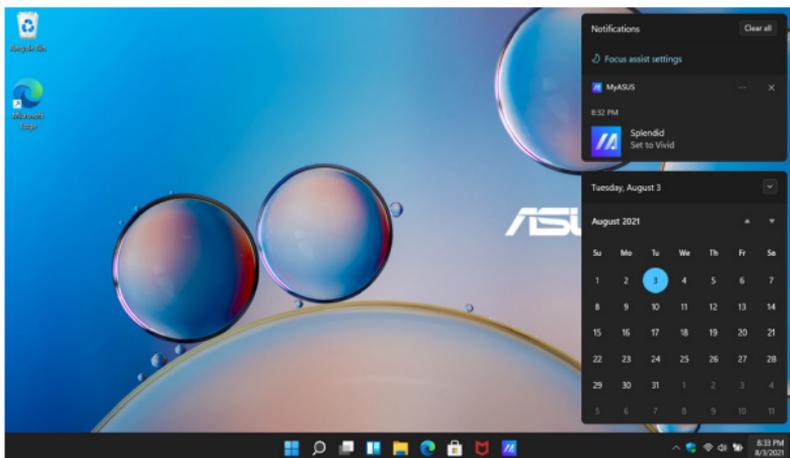
Tap the status icons on the taskbar.



Position your mouse pointer over the status icons on the taskbar and click it.



Press  +  on your keyboard.



## Launching Notifications



Tap the date and time on the taskbar.



Position your mouse pointer over the date and time on the taskbar and click it.



Press  +  on your keyboard.

# GameVisual Eyecare

ROG GameVisual ensures that all ROG display panels show identical and accurate colors. You may select Eyecare or other color modes to adjust display settings.

**Eyecare Mode:** Compliant with TÜV Rheinland Low Blue Light (Software Solution) Certification. The Eyecare mode will reduce blue light emission by up to 30%, protecting your eyes from the panel's blue light. To enable Eyecare Mode, go to **ROG Armoury Crate > GameVisual** and select Eyecare mode.

Low blue light technology helps reduce blue light emission and improve eye discomfort.

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**NOTE:** TÜV Low Blue Light certified panels are only available on selected models.

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Please refer to the following tips to alleviate eye strain:

- Take some time away from the display if working for long hours. It is advised to take short breaks (at least 5 minutes) after around 1 hour of continuous working at the computer. Taking short and frequent breaks is more effective than a long break.
- To minimize eye strain and eye dryness, rest your eyes periodically by focusing on objects that are far away.

- Repeat the following exercises to reduce eye strain:
  - (1) Look up and down repeatedly
  - (2) Slowly roll your eyes
  - (3) Move your eyes diagonally

If eye strain persists, please consult a physician.

High energy blue light may lead to eye strain and AMD (Age-Related Macular Degeneration). Blue light Filter reduces 30% (max.) harmful blue light to avoid CVS (Computer Vision Syndrome).

Flicker-free technology eliminates the primary cause of monitor flicker and prevents eye strain.

Your Notebook PC is fully compliant with TÜV Rheinland Flicker Free Certification when HDR is enabled (default).

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**NOTE:** TÜV Flicker-free certified panels are only available on selected models.

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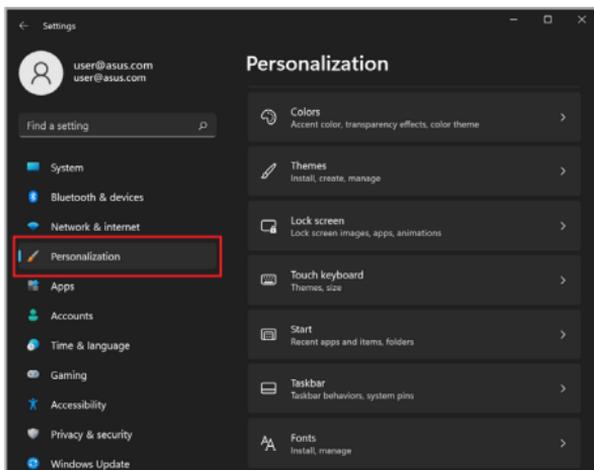
# Setting the OLED display

To ensure the most out of your OLED display (on selected models), there are several settings that we recommend. These settings help to optimize the visual experience, maximize battery life, and extend the lifespan of your ASUS Notebook PC.

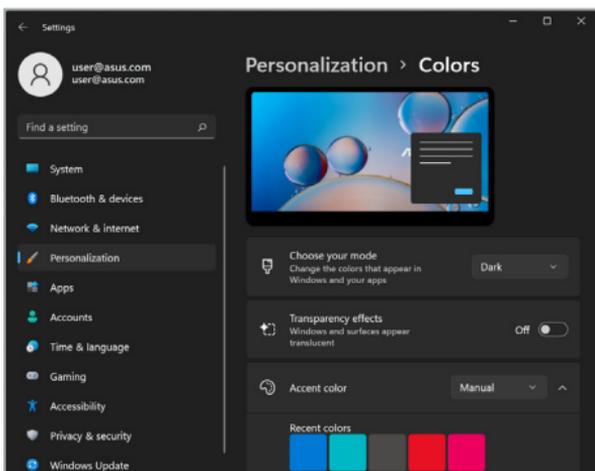
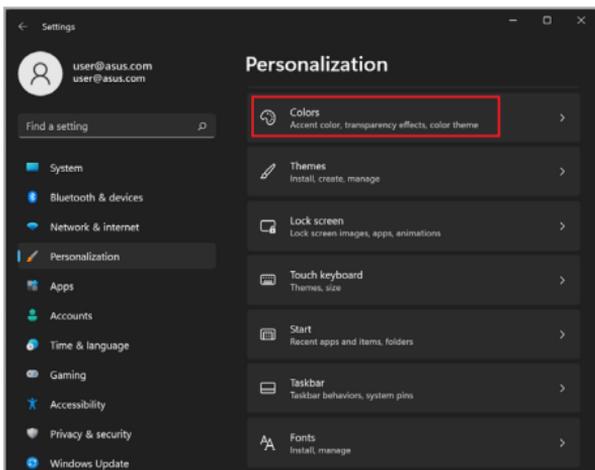
## Setting the Dark Mode

The Dark Mode is enabled by default. To check or adjust the settings:

1. Launch the Start menu.
2. Click/Tap **Settings** and select **Personalization**.



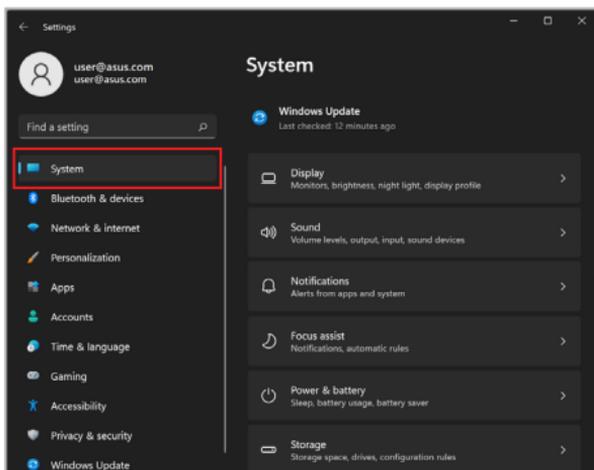
3. Select the **Colors** tab to view the options.



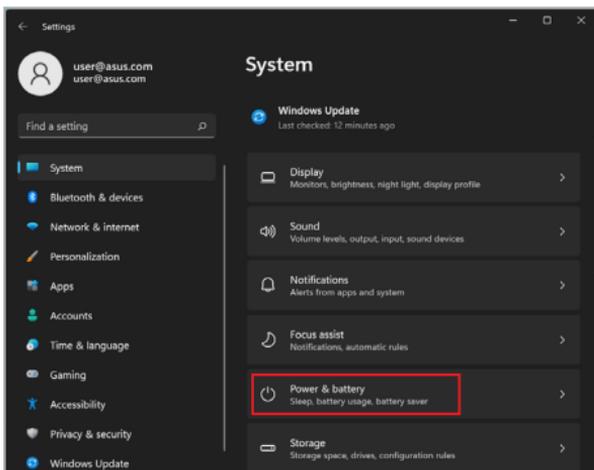
## Turning off the display when not in use

Ensure to set your display to turn off automatically when not in use. To check or adjust the settings:

1. Launch the Start menu.
2. Click/Tap **Settings** and select **System**.



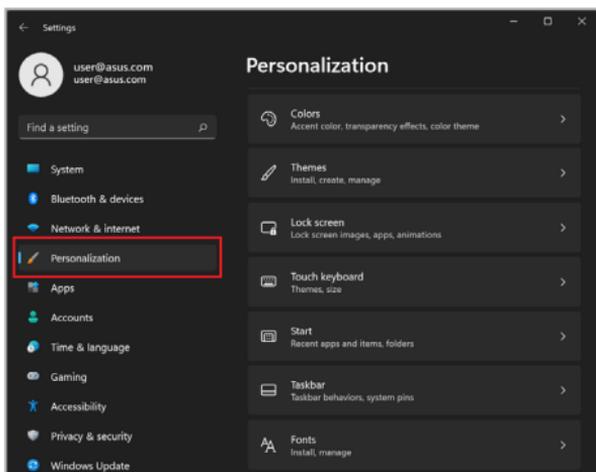
3. Select the **Power & battery** tab to view the options.



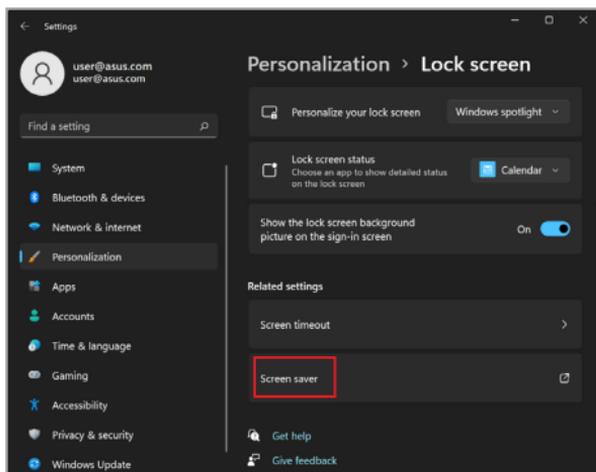
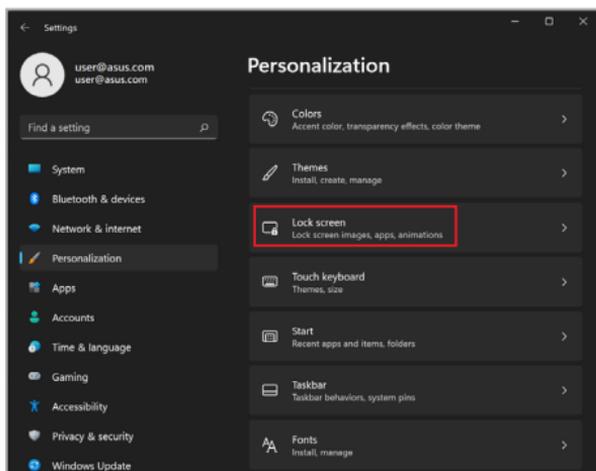
## Adjusting display brightness

It is recommended to enable animated dark-background screensaver and avoid setting your OLED display at maximum brightness to extend the lifespan of your OLED display. To check or adjust the settings:

1. Launch the Start menu.
2. Click/Tap **Settings** and select **Personalization**.



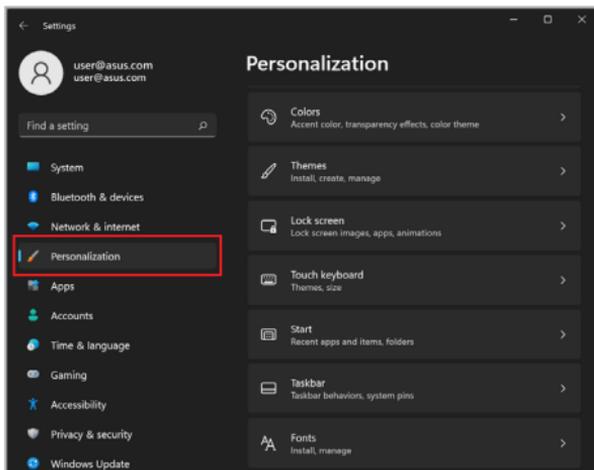
3. Select the **Lock screen** tab and then select **Screen saver** to view the options.



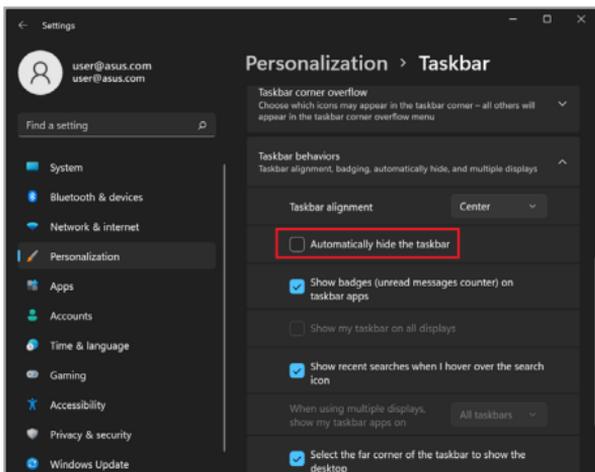
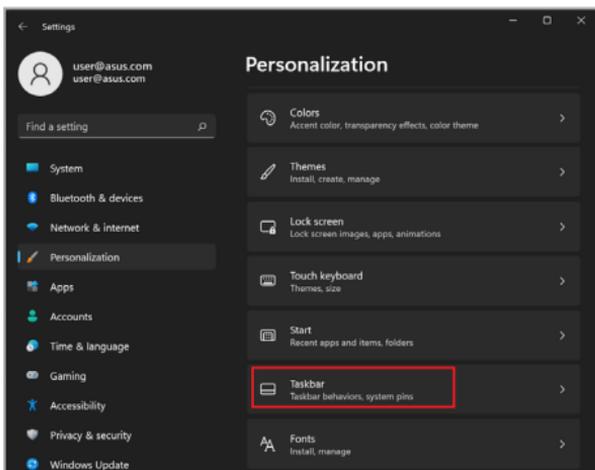
## Auto-hide the taskbar

To avoid displaying the taskbar on your OLED display for prolonged time, ensure to auto-hide the taskbar. To adjust the settings:

1. Launch the Start menu.
2. Click/Tap **Settings** and select **Personalization**.



3. Select the **Taskbar** tab and then enable **Automatically hide the taskbar**.



## Setting the Dark Mode in Microsoft Office

1. Launch a Microsoft Office application, and then click/tap **File > Account**.
2. Select **Dark Gray** under **Office Theme**. The theme will be applied to all the Microsoft applications.

## Other keyboard shortcuts

Using the keyboard, you can also use the following shortcuts to help you launch applications and navigate Windows.



Launches **Start menu**



Launches **Action Center**



Launches the desktop



Launches the **File Explorer**



Launches **Settings**



Launches **Connect** panel



Activates the Lock screen



Minimizes all currently active windows



Launches **Search**



Launches **Project** panel



Opens the **Run** window



Opens **Accessibility**



Opens the context menu of the Start button



Launches the magnifier icon and zooms in your screen



Zooms out your screen

# Connecting to wireless networks

## Wi-Fi

Access emails, surf the Internet, and share applications via social networking sites using your Notebook PC's Wi-Fi connection.

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**IMPORTANT! Airplane mode** disables this feature. Ensure that **Airplane mode** is turned off before enabling the Wi-Fi connection of your Notebook PC.

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## Connecting Wi-Fi

Connect your Notebook PC to a Wi-Fi network by using the following steps:



or



1. Launch **Action Center** from the taskbar.
2. Click/Tap the **Wi-Fi** icon to enable Wi-Fi.
3. Select an access point from the list of available Wi-Fi connections.
4. Select **Connect** to start the network connection.

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**NOTE:** You may be prompted to enter a security key to activate the Wi-Fi connection.

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## Bluetooth

Use Bluetooth to facilitate wireless data transfers with other Bluetooth-enabled devices.

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**IMPORTANT! Airplane mode** disables this feature. Ensure that **Airplane mode** is turned off before enabling the Bluetooth connection of your Notebook PC.

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### Pairing with other Bluetooth-enabled devices

You need to pair your Notebook PC with other Bluetooth-enabled devices to enable data transfers. Connect your devices by using the following steps:



1. Launch **Settings** from the Start menu.
2. Select **Bluetooth & devices** > **Add device** to search for Bluetooth-enabled devices.
3. Select a device from the list to pair your Notebook PC with the device.

or



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**NOTE:** For some Bluetooth-enabled devices, you may be prompted to key in the passcode of your Notebook PC.

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## Airplane mode

Airplane mode disables wireless communication, allowing you to use your Notebook PC safely while in-flight.

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**NOTE:** 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.

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### Turning Airplane mode on/off



1. Launch **Action Center** from the taskbar.
2. Click/Tap the **Airplane mode** icon to enable or disable Airplane mode.

or



## Turning your Notebook PC off

You can turn off your Notebook PC by doing either of the following procedures:



or



- Launch the Start menu, then select  > **Shut down** to do a normal shutdown.
- From the log-in screen, select  > **Shut down**.



- Press  +  to launch Shut Down Windows. Select **Shut down** from the drop-down list then select **OK**.
- If your Notebook PC is unresponsive, press and hold the power button for at least ten (10) seconds until your Notebook PC turns off.

# Putting your Notebook PC to sleep

To put your Notebook PC to Sleep mode:



- Launch the Start menu, then select  > **Sleep** to put your Notebook PC to sleep.
- From the log-in screen, select  > **Sleep**.

or



Press  +  to launch Shut Down Windows.

Select **Sleep** from the drop-down list then select **OK**.

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**NOTE:** You can also put your Notebook PC to Sleep mode by pressing the power button once.

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## **Chapter 4:**

# ***Power-On Self-Test (POST)***

# The Power-On Self-Test (POST)

The POST (Power-On Self-Test) is a series of software-controlled diagnostic tests that run when you turn on or restart your Notebook PC. The software that controls the POST is installed as a permanent part of the Notebook PC's architecture.

## Using POST to access BIOS and Troubleshoot

During POST, you can access the BIOS settings or run troubleshooting options using the function keys of your Notebook PC. You may refer to the following information for more details.

## BIOS

The BIOS (Basic Input and Output System) stores system hardware settings that are needed for system startup in the Notebook PC.

The default BIOS settings apply to most conditions of your Notebook PC. Do not change the default BIOS settings except in the following circumstances:

- An error message appears onscreen during system bootup and requests you to run the BIOS Setup.
- You have installed a new system component that requires further BIOS settings or updates.

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**WARNING!** Using inappropriate BIOS settings may result to system instability or boot failure. We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

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## Accessing BIOS

Restart your Notebook PC then press  during POST.

# Recovering your system

Using recovery options on your Notebook PC allows you to restore the system to its original state or simply refresh its settings to help improve performance.

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## IMPORTANT!

- Backup all your data files before doing any recovery option on your Notebook PC.
  - Note down important customized settings such as network settings, user names, and passwords to avoid data loss.
  - Ensure that your Notebook PC is plugged in to a power source before resetting your system.
- 

Windows allows you to do any of the following recovery options:

- **Keep my files** - This option allows you to refresh your Notebook PC without affecting personal files (photos, music, videos, documents).

Using this option, you can restore your Notebook PC to its default settings and delete other installed apps.

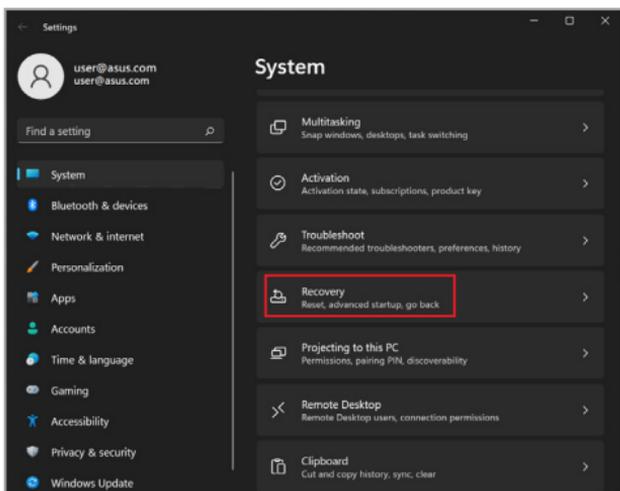
- **Remove everything** - This option resets your Notebook PC to its factory settings. You must backup your data before doing this option.

- **Advanced startup** - Using this option allows you to perform other advanced recovery options on your Notebook PC such as:
  - Using a USB drive, network connection or Windows recovery DVD to startup your Notebook PC.
  - Using **Troubleshoot** to enable any of these advanced recovery options: Startup Repair, Uninstall Updates, Startup Settings, UEFI Firmware Settings, Command Prompt, System Restore, and System Image Recovery.

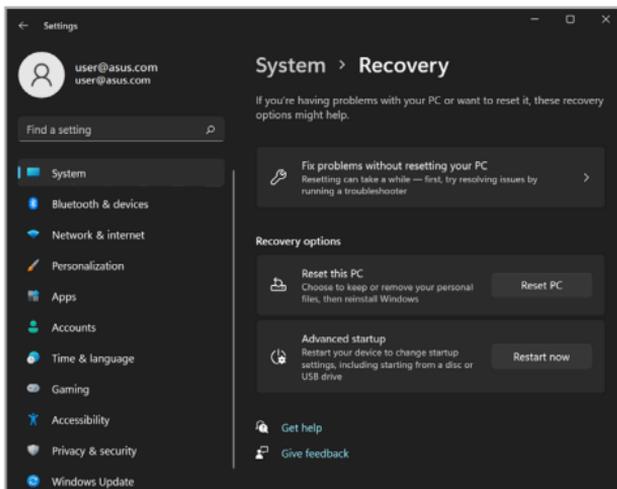
## Performing a recovery option

Refer to the following steps if you want to access and use any of the available recovery options for your Notebook PC.

1. Launch **Settings** and select **System > Recovery**.



2. Select the recovery option you would like to perform.





## ***Tips and FAQs***

## Useful tips for your Notebook PC

To help you maximize the use of your Notebook PC, maintain its system performance, and ensure all your data are kept secured, here are some useful tips that you can follow:

- Update Windows periodically to ensure that your applications have the latest security settings.
- Update MyASUS to ensure that you have the latest settings for ASUS exclusive applications, drivers, and utilities.
- Use an anti-virus software to protect your data and keep this updated too.
- Unless absolutely necessary, refrain from using force shutdown to turn off your Notebook PC.
- Always backup your data and make it a point to create a backup data in an external storage drive.
- If you are not using your Notebook PC for a long period of time, ensure to charge the battery power to 50% then power off your Notebook PC and disconnect the AC power adapter.
- If you are constantly using AC power for your Notebook PC, set the Battery Health Charging to Balanced mode in MyASUS.

- Disconnect all external devices and ensure you have the following items prior to resetting your Notebook PC:
  - Product key for your operating systems and other installed applications
  - Backup data
  - Log in ID and password
  - Internet connection information
- Visit our support site for troubleshooting and view some of the most frequently asked questions at <https://www.asus.com/support>.

# Hardware FAQs

**1. A black dot, or sometimes a colored dot, appears onscreen when I turn on the Notebook PC. What should I do?**

Although these dots normally appear onscreen, they will not affect your system. If the incident continues and subsequently affects system performance, consult an authorized ASUS service center.

**2. My display panel has an uneven color and brightness. How can I fix this?**

The color and brightness of your display panel may be affected by the angle and current position of your Notebook PC. The brightness and color tone of your Notebook PC may also vary per model. You may use the function keys or the display settings in your operating system to adjust the appearance of your display panel.

**3. How can I maximize my Notebook PC's battery life?**

You can try doing any of the following suggestions:

- Use the function keys to adjust the display brightness.
- If you are not using any Wi-Fi connection, switch your system into **Airplane mode**.
- Disconnect unused USB devices.
- Close unused applications, especially those that take up too much system memory.

#### 4. **My battery charge indicator does not light up. What's wrong?**

- Check whether the power adapter or battery pack is attached correctly. You may also disconnect the power adapter or battery pack, wait for a minute, then reconnect them again to the power outlet and Notebook PC.
- If the problem still exists, contact your local ASUS service center for assistance.

#### 5. **Why is my touchpad not working?**

Press  +  to enable your touchpad.

#### 6. **When I play audio and video files, why can't I hear any sound from my Notebook PC's audio speakers?**

You can try doing any of the following suggestions:

- Press  to turn up the speaker volume.
- Check if your speakers were set to mute.
- Check if a headphone jack is connected to your Notebook PC and remove it.

#### 7. **What should I do if my Notebook PC's power adapter gets lost or my battery stops working?**

Contact your local ASUS service center for assistance.

**8. My Notebook PC cannot do keystrokes correctly because my cursor keeps on moving. What should I do?**

Make sure that nothing accidentally touches or presses on your touchpad while you type on the keyboard. You can also disable

your touchpad by pressing  +  .

**9. I have disabled sleep mode, but why does my Notebook PC still go into sleep mode when I close the lid?**

Closing the lid when the system is under high load forces your Notebook PC to go into sleep mode to prevent overheating.

# Software FAQs

**1. When I turn on my Notebook PC, the power indicator lights up but nothing appears on my screen. What can I do to fix this?**

You can try doing any of the following suggestions:

- Force shutdown your Notebook PC by pressing the power button for at least ten (10) seconds. Check if the power adapter and battery pack are inserted correctly then turn on your Notebook PC.
- If the problem still exists, contact your local ASUS service center for assistance.

**2. What should I do when my screen displays this message: “Remove disks or other media. Press any key to restart.”?**

You can try doing any of the following suggestions:

- Remove all connected USB devices then restart your Notebook PC.
- Remove any optical discs that are left inside the optical drive then restart.
- If the problem still exists, your Notebook PC might have a memory storage problem. Contact your local ASUS service center for assistance.

**3. My Notebook PC boots slower than usual and my operating system lags. How can I fix this?**

Delete the applications you recently installed or were not included with your operating system package then restart your system.

#### **4. My Notebook PC does not boot up. How can I fix this?**

You can try doing any of the following suggestions:

- Remove all connected devices to your Notebook PC then restart your system.
- If the problem still exists, contact your local ASUS service center for assistance.

#### **5. Why can't my Notebook PC wake up from sleep mode?**

- You need to press the power button to resume your last working state.
- Your system might have completely used up its battery power. Connect the power adapter to your Notebook PC and connect to a power outlet then press the power button.

# ***Appendices***

## Federal Communications Commission Interference Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (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 the dealer or an experienced radio/TV technician for help.

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**WARNING!** The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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(Reprinted from the Code of Federal Regulations #47, part 15.193, 1993.  
Washington DC: Office of the Federal Register, National Archives and Records  
Administration, U.S. Government Printing Office.)

## FCC RF Exposure Information

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of [www.fcc.gov/oet/ea/fccid](http://www.fcc.gov/oet/ea/fccid).

## FCC RF Caution Statement

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**WARNING!** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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## FCC Wi-Fi 6E Caution Statement

FCC regulations restrict the operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.

## ISED Wi-Fi 6E Caution Statement (RLAN devices)

Devices shall not be used for control of or communications with unmanned aircraft systems.

Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.

## Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Innovation, Science and Economic Development Canada (ISED) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the ISED Specific Absorption Rate ("SAR") limits when operated in portable exposure conditions.

## Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie rayonnée du dispositif sans fil est inférieure aux limites d'exposition aux radiofréquences d'Innovation, Sciences et Développement économique Canada (ISED). Le dispositif sans fil doit être utilisé de manière à minimiser le potentiel de contact humain pendant le fonctionnement normal.

Cet appareil a été évalué et montré conforme aux limites de DAS (Débit d'Absorption Spécifique) de l'ISED lorsqu'il est utilisé dans des conditions d'exposition portables.

## Compliance Statement of Innovation, Science and Economic Development Canada (ISED)

This device complies with *Innovation, Science and Economic Development Canada* licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

CAN ICES-003(B)/NMB-003(B)

## Déclaration de conformité de Innovation, Sciences et Développement économique Canada (ISED)

Le présent appareil est conforme aux CNR d'*Innovation, Sciences et Développement économique Canada* applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

La bande 5150–5250 MHz est réservée uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

CAN ICES-003(B)/NMB-003(B)

## Caution

- (i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- (iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- (iv) where applicable, antenna type(s), antenna model(s), and worst-case tilt angle (s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

## Avertissement

- (i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement à une utilisation en intérieur afin de réduire les risques d'interférence préjudiciables aux systèmes de satellites mobiles utilisant les mêmes canaux;
- (ii) pour les dispositifs avec antenne(s) détachable(s), le gain d'antenne maximal autorisé pour les dispositifs des bandes 5250-5350 MHz et 5470-5725 MHz doit être tel que l'équipement respecte encore la limite e.i.r.p.;
- (iii) pour les dispositifs avec antenne(s) détachable(s), le gain d'antenne maximal autorisé pour les dispositifs dans la bande 5725-5850 MHz doit être tel que l'équipement soit toujours conforme à la limite e.i.r.p., le cas échéant; et
- (iv) le cas échéant, type(s) d'antenne, modèle(s) d'antenne et angle(s) d'inclinaison dans le cas le plus défavorable nécessaire pour rester conforme à la limite e.i.r.p. L'exigence de masque d'altitude énoncée à la section 6.2.2.3 doit être clairement indiquée.

## UL Safety Notices

Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

When using the Notebook PC modem, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- DO NOT use the Notebook PC near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- DO NOT use the Notebook PC during an electrical storm. There may be a remote risk of electric shock from lightning.
- DO NOT use the Notebook PC in the vicinity of a gas leak.

Required for UL 1642 covering primary (non-rechargeable) and secondary (rechargeable) lithium batteries for use as power sources in products. These batteries contain metallic lithium, or a lithium alloy, or a lithium ion, and may consist of a single electrochemical cell or two or more cells connected in series, parallel, or both, that convert chemical energy into electrical energy by an irreversible or reversible chemical reaction.

- DO NOT dispose the Notebook PC battery pack in a fire, as they may explode. Check with local codes for possible special disposal instructions to reduce the risk of injury to persons due to fire or explosion.
- DO NOT use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.

## Power Safety Requirement

Products with electrical current ratings up to 6A and weighing more than 3Kg must use approved power cords greater than or equal to: H05VV-F, 3G, 0.75mm<sup>2</sup> or H05VV-F, 2G, 0.75mm<sup>2</sup>.

## TV Notices

Note to CATV System Installer—Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable – installation should include bonding the screen of the coaxial cable to the earth at the building entrance.

## Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by method claims of certain U.S.A. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only *unless otherwise authorized by Macrovision Corporation*. Reverse engineering or disassembly is prohibited.

## Prevention of Hearing Loss

To prevent possible hearing damage, do not listen at high volume levels for long periods.



## Nordic Lithium Cautions (for lithium-ion batteries)

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English)

ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato. Sostituire la batteria con un una di tipo uguale o equivalente consigliata dalla fabbrica. Non disperdere le batterie nell'ambiente. (Italian)

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers. (German)

ADVARSEL! Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren. (Danish)

WARNING! Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion. (Swedish)

VAROITUS! Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittellemaan tyyppiin. Hävitä käytetty paristo valmistagan ohjeiden mukaisesti. (Finnish)

ATTENTION! Danger d'explosion si la batterie n'est pas correctement remplacée. Remplacer uniquement avec une batterie de type semblable ou équivalent, recommandée par le fabricant. Jeter les batteries usagées conformément aux instructions du fabricant. (French)

ADVARSEL! Eksplosjonsfare ved feilaktig skifte av batteri. Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten. Brukte batterier kasseres i henhold til fabrikantens instruksjoner. (Norwegian)

標準品以外の使用は、危険の元になります。交換品を使用する場合、製造者に指定されるものを使って下さい。製造者の指示に従って処理して下さい。(Japanese)

ВНИМАНИЕ! При замене аккумулятора на аккумулятор иного типа возможно его возгорание. Утилизируйте аккумулятор в соответствии с инструкциями производителя. (Russian)

## Declaration of Compliance for Product Environmental Regulation

ASUS follows the green design concept to design and manufacture our products, and makes sure that each stage of the product life cycle of ASUS product is in line with global environmental regulations. In addition, ASUS disclose the relevant information based on regulation requirements.

Please refer to <http://csr.asus.com/Compliance.htm> for information disclosure based on regulation requirements ASUS is complied with.

### EU REACH and Article 33

Complying with the REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals) regulatory framework, we publish the chemical substances in our products at ASUS REACH website at <http://csr.asus.com/english/REACH.htm>.

### EU RoHS

This product complies with the EU RoHS Directive. For more details, see <http://csr.asus.com/english/article.aspx?id=35>.

### Japan JIS-C-0950 Material Declarations

Information on Japan RoHS (JIS-C-0950) chemical disclosures is available on <http://csr.asus.com/english/article.aspx?id=19>.

### India RoHS

This product complies with the "India E-Waste (Management) Rules, 2016" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) in concentrations exceeding 0.1% by weight in homogenous materials and 0.01% by weight in homogenous materials for cadmium, except for the exemptions listed in Schedule II of the Rule.

## Coating Notice

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**IMPORTANT!** To provide electrical insulation and maintain electrical safety, a coating is applied to insulate the device except on the areas where the I/O ports are located.

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## ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components as well as the packaging materials.

Please go to <http://csr.asus.com/english/Takeback.htm> for detailed recycling information in different regions.

## Rechargeable Battery Recycling Service in North America



For US and Canada customers, you can call 1-800-822-8837 (toll-free) for recycling information of your ASUS products' rechargeable batteries.

## Vietnam RoHS

ASUS products sold in Vietnam, on or after September 23, 2011, meet the requirements of the Vietnam Circular 30/2011/TT-BCT.

Các sản phẩm ASUS bán tại Việt Nam, vào ngày 23 tháng 9 năm 2011 trở về sau, đều phải đáp ứng các yêu cầu của Thông tư 30/2011/TT-BCT của Việt Nam.

## Regional notice for Singapore

Complies with IMDA Standards DB103778
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This ASUS product complies with IMDA Standards.

## Ecodesign Directive

European Union announced a framework for the setting of ecodesign requirements for energy-related products (2009/125/EC). Specific Implementing Measures are aimed at improving environmental performance of specific products or across multiple product types. ASUS provides product information on the CSR website. Further information could be found at <https://csr.asus.com/english/article.aspx?id=1555>.

## EPEAT Registered Products

The public disclosure of key environmental information for ASUS EPEAT (Electronic Product Environmental Assessment Tool) registered products is available at <https://csr.asus.com/english/article.aspx?id=41>. More information about EPEAT program and purchase guidance can be found at [www.epeat.net](http://www.epeat.net).

## Notices for removable batteries

- Risk of explosion if battery is replaced by an incorrect type.
- The battery and its component must be recycled or disposed of properly.

## Avis concernant les batteries remplaçables

- La batterie de l'appareil peut présenter un risque d'incendie ou de brûlure si celle-ci est retirée ou désassemblée.
- La batterie et ses composants doivent être recyclés de façon appropriée.

## Wi-Fi Network Notice

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**IMPORTANT!** Wi-Fi 6E network card is available on selected models. The connectivity of Wi-Fi 6E band may vary according to the regulation and certification of each country/region.

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## Simplified EU Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. Full text of EU declaration of conformity is available at

<https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for countries listed in the table below:

AT	BE	BG	CZ	DK	EE	FR
DE	IS	IE	IT	EL	ES	CY
LV	LI	LT	LU	HU	MT	NL
NO	PL	PT	RO	SI	SK	TR
FI	SE	CH	HR	UK(NI)		



## Simplified UKCA Declaration of Conformity

ASUSTek Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of The Radio Equipment Regulations 2017 (S.I. 2017/1206). Full text of UKCA declaration of conformity is available at <https://www.asus.com/support/>.

The WiFi operating in the band 5150-5350 MHz shall be restricted to indoor use for the country listed below:

UK

