Modern Series

All-in-One PC

Modern AM242 12M (MS-AE07)
Modern AM242T 12M (MS-AE07)
Modern AM242P 12M (MS-AE07)
Modern AM242TP 12M (MS-AE07)
Modern AM272 12M (MS-AF82)
Modern AM272P 12M (MS-AF82)

User Guide

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Revision
V1.0, 2021/12

Getting Started

This chapter provides you with the information on hardware setup procedures. While connecting devices, be careful in holding the devices and use a grounded wrist strap to avoid static electricity.

Package Contents

All-in-One PC	Modern AM242 12M, Modern AM242T 12M Modern AM242P 12M, Modern AM242TP 12M Modern AM272 12M, Modern AM272P 12M
Documentation	Quick Start Guide (Optional)
	User Guide (Optional)
	Warranty Book (Optional)
	Warranty Card (Optional)
Accessories	Power Cord
	Power Adapter
	Mouse (Optional)
	Keyboard (Optional)

Important

- *Contact your place of purchase or local distributor if any of the items is damaged or missing.*
- *Package contents may vary by country.*
- *The included power cord is exclusively for this personal computer and should not be used with other products.*

Safety & Comfort Tips

- Choosing a good workspace is important if you have to work with your PC for a long period of time.
- Your work area should have enough illumination.
- Choose the proper desk and chair and adjust their height to fit your posture when operating.
- When sitting on the chair, sit straight and keep a good posture. Adjust the chair's back (if available) to support your back comfortably.
- Place you feet flat and naturally on the floor, so that your knees and elbows have the proper position (about 90-degree) when operating.
- Put your hands on the desk naturally to support your wrists.
- Avoid using your PC in a place where discomfort may occur (such as on the bed).
- The PC is an electrical device. Please treat it with great care to avoid personal injury.

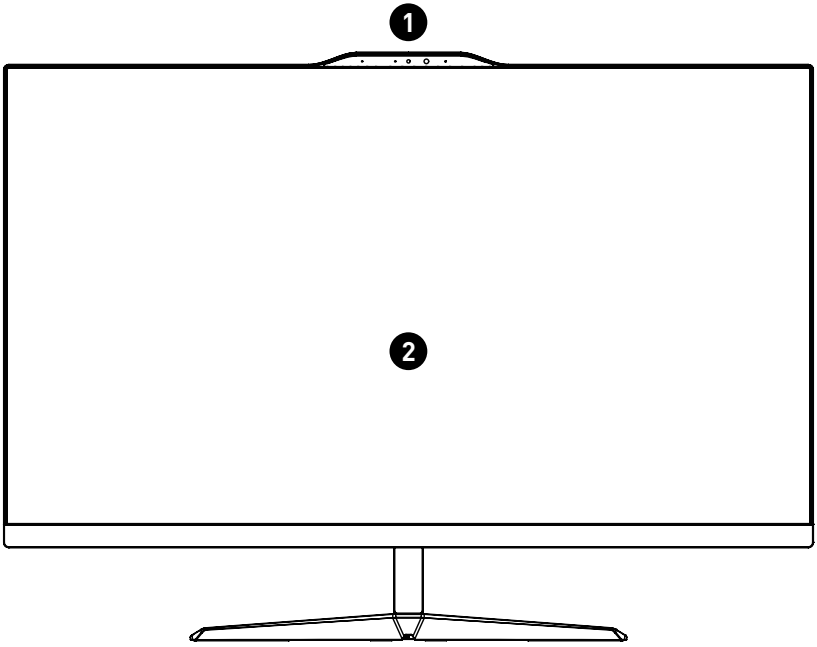
System Overview

Front View

Modern AM242 12M

Modern AM242T 12M

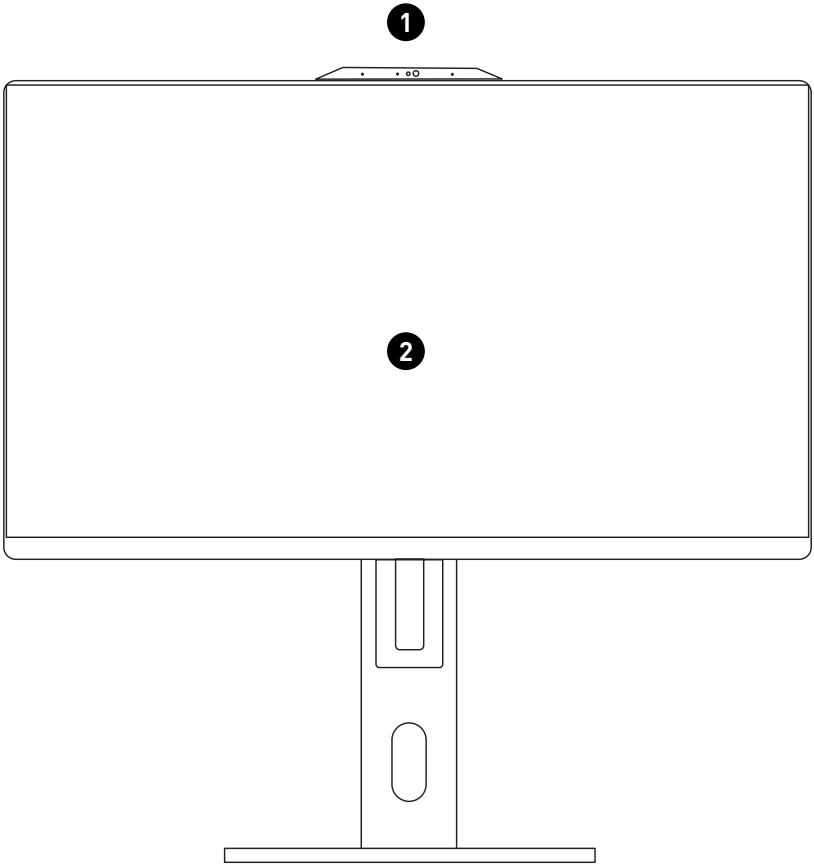
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



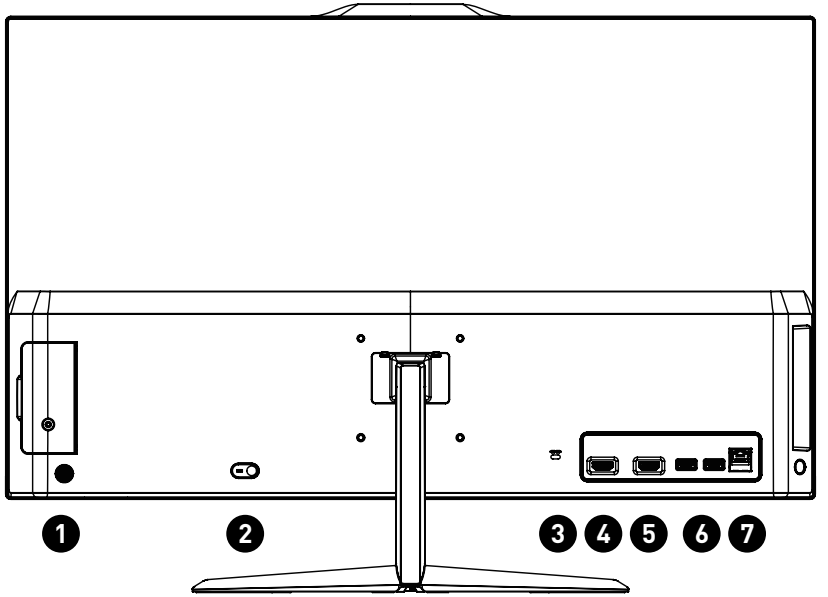
1	**Webcam**
2	**Touch Screen (for Modern AM242T 12M/ Modern AM242TP 12M)**

Rear View

Modern AM242 12M

Modern AM242T 12M

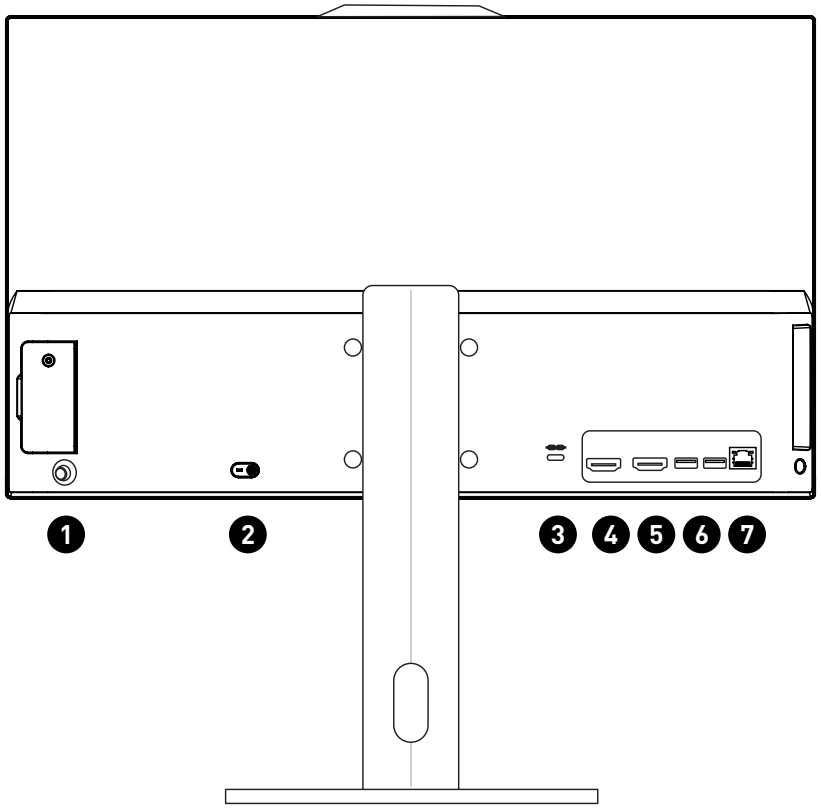
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



1	**Navi Key** The AIO PC comes with a Navi Key, a multi-directional control that helps navigate the On-Screen Display (OSD) menu.
2	**Power Jack** Power supplied through this jack supplies power to your system.
3	**Kensington Lock**

4 **HDMI-In Port (with MSI Instant Display Technology)**

The High-Definition Multimedia Interface (HDMI) is an all-digital audio/video interface capable of transmitting uncompressed streams. HDMI supports all TV format, including standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable.

With MSI Instant Display Technology, when you connect power to the AIO PC successfully, the monitor will automatically enter "standby" mode without pressing the power button. When devices are connected to the HDMI-in port, the monitor will be turned on immediately. You can also switch the modes through the Monitor Power/ Mode Button on the side panel if you have already turned on your AIO PC. This technology helps to save more energy for your system.

5 **HDMI 2.0b Port**

Supports a maximum resolution of 4K 60Hz.

Important

- *Available for the processor with integrated graphics.*
- *Graphics specifications may vary depending on the installed CPU.*

6 **USB 2.0 Port**

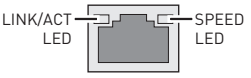
This connector is provided for USB peripheral devices. (Speed up to 480 Mbps)

Important

High-speed devices are recommended for USB 3.2 ports whereas low-speed devices, such as mouse or keyboard, are suggested to be plugged into the USB 2.0 ports.

7 **LAN Jack**

The standard RJ-45 LAN jack is provided for connection to the Local Area Network (LAN). You can connect a network cable to it.



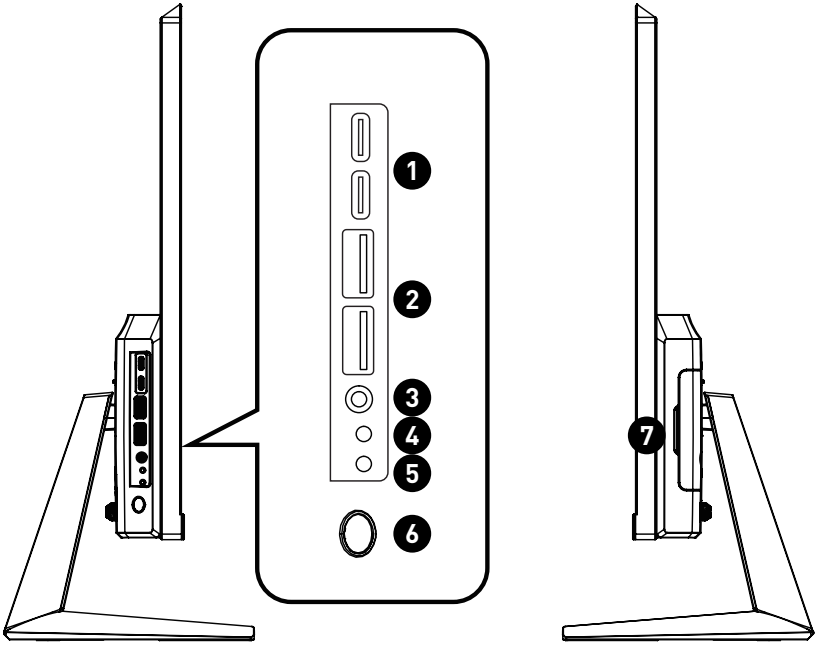
LED	Status	Description
Link/ Activity LED	Off	No link
	Yellow	Linked
	Blinking	Data activity
Speed LED	Off	10 Mbps
	Green	100 Mbps
	Orange	1 Gbps

Side View

Modern AM242 12M

Modern AM242T 12M

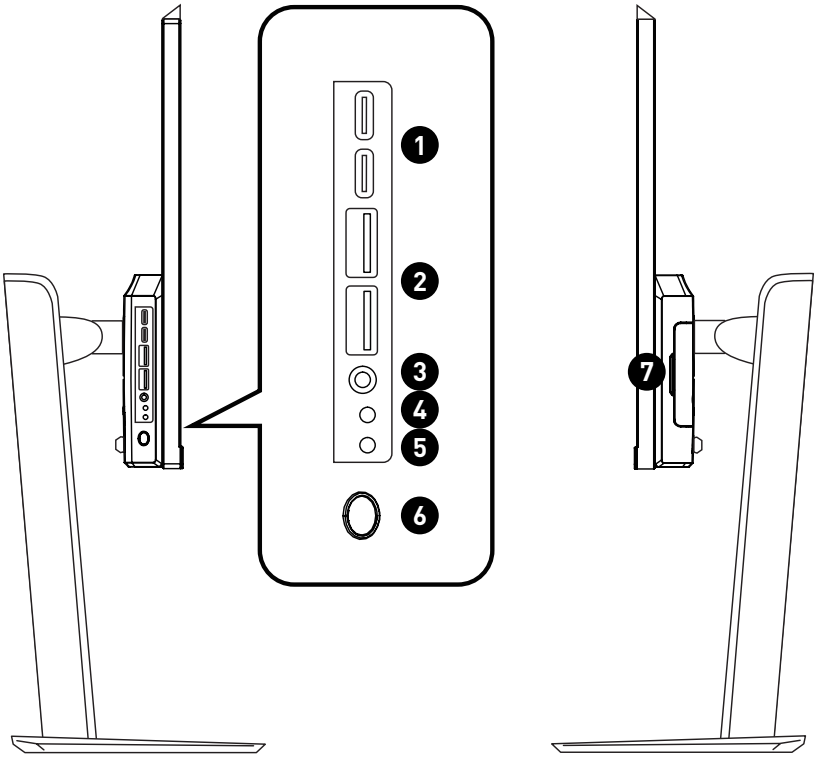
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



1	**USB 3.2 Gen 2 Port (Type-C)** This connector is provided for USB peripheral devices. This connector can provide up to 5V 3A of power. (Speed up to 10 Gbps)
2	**USB 3.2 Gen 2 Port** This connector is provided for USB peripheral devices. (Speed up to 10 Gbps)
3	**Combo Audio Jack** This connector is provided for headphones or speakers or microphones.

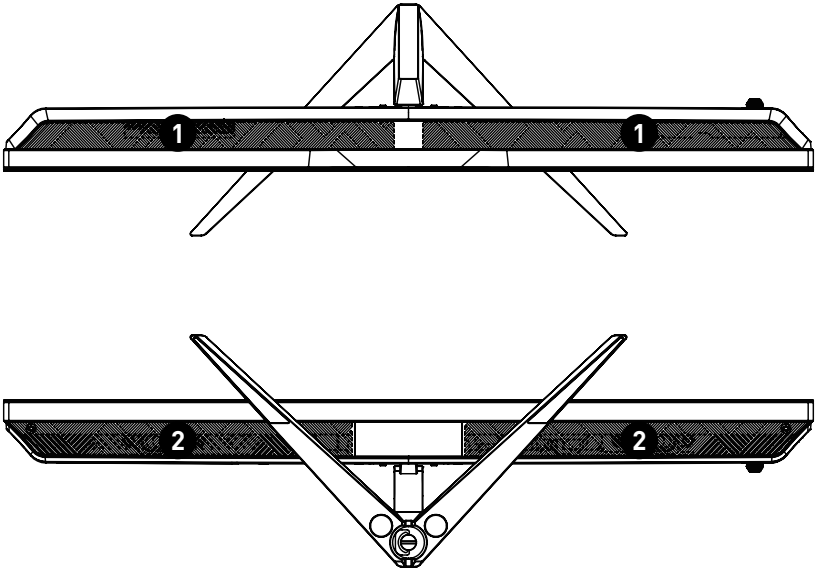
4	**Monitor LED**
5	**Hard Disk Drive LED** This indicator shows the activity status of the HDD. It flashes when the system is accessing data on the HDD and remains off when no disk activity is detected.
6	**Power Button/ LED** Press the power button to turn the system on and off. The power LED glows when the system is turned on and goes off when the system is shut down. In terms of power saving, the LED blinks in S3 (Suspend to RAM) mode and goes off in S4 (Suspend to Disk) mode.
7	**2.5" SSD/ HDD Bay**

Top & Bottom View

Modern AM242 12M

Modern AM242T 12M

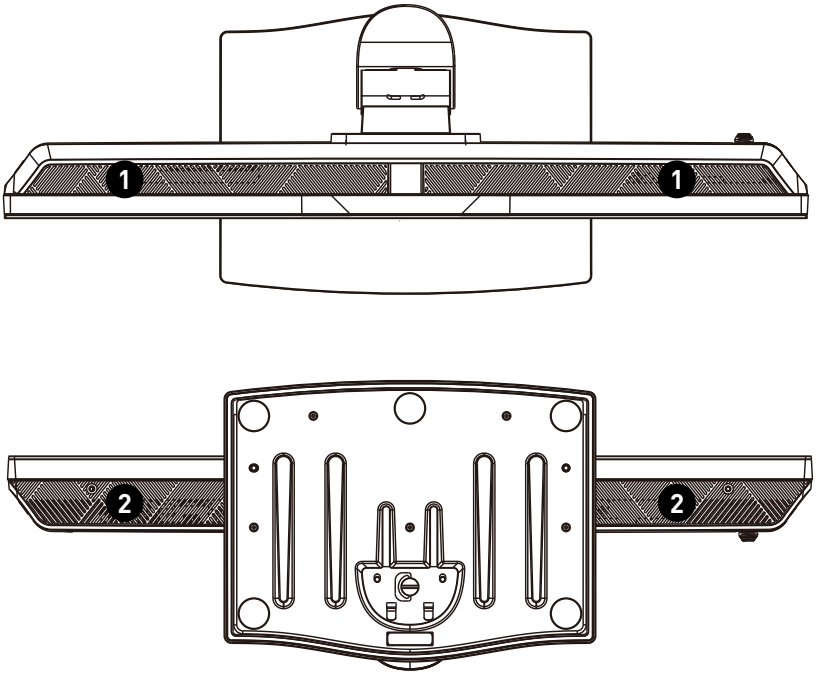
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



1	**Ventilator** The ventilator on the enclosure is used for air convection and to prevent the equipment from overheating. Do not cover the ventilator.
2	**Stereo Speakers** The built-in stereo speakers deliver high quality sound with stereo system.

Connecting the Power

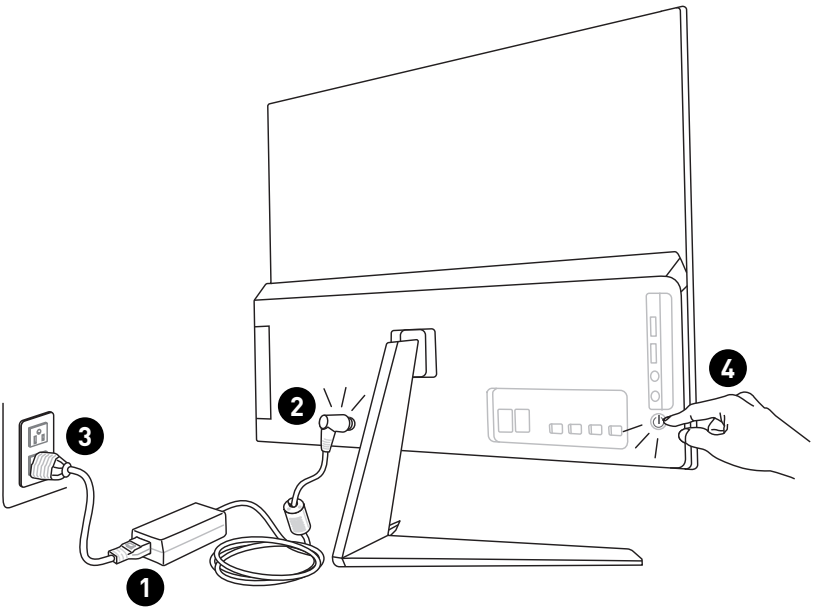
Connect the adapter to the AIO PC and plug in the power cord. Press the power button to power on the AIO PC.

Modern AM242 12M

Modern AM242T 12M

Modern AM272 12M

Power ratings: 100-240V, 19.5V ⎓ 6.15A

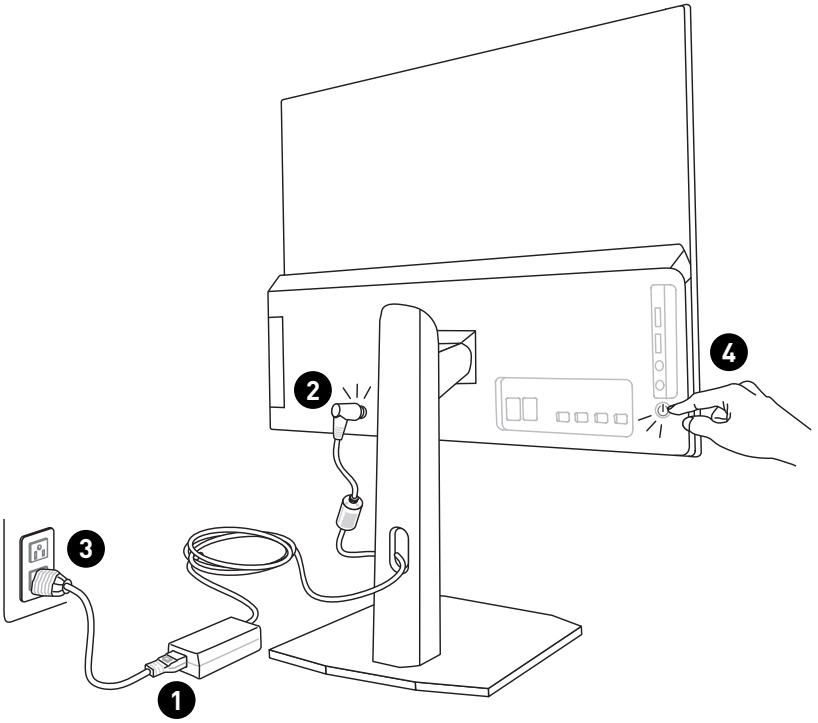


Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M

Power ratings: 120W: 100-240V, 19.5V ⎓ 6.15A



Important

- *The illustrations are for reference only. Your AIO PC may vary in appearance.*
- *Please make sure the AIO PC has been grounded to earth through the AC power cord and the electrical outlet before powering on the AIO PC.*
- *Do not use any sharp objects on the display panel.*
- *Avoid pressing the display panel when adjusting.*

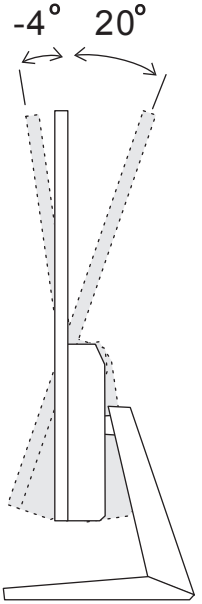
Adjusting the Monitor

This AIO PC is designed to maximize your viewing comfort with its adjustment capabilities.

Modern AM242 12M

Modern AM242T 12M

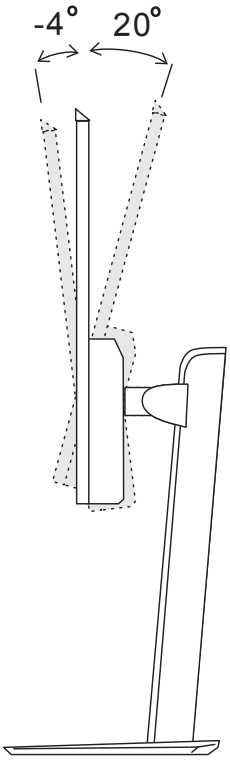
Modern AM272 12M

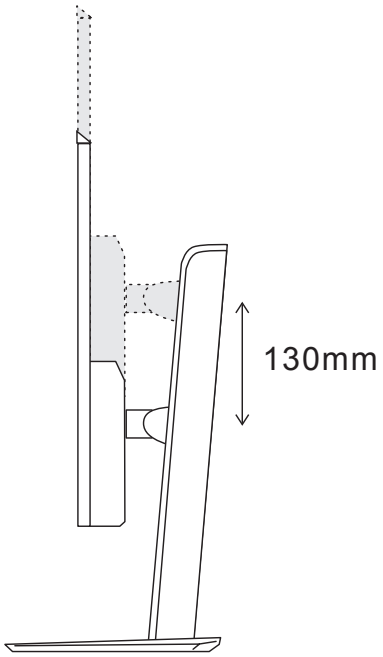


Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M





OSD Setup

This chapter provides you with essential information on OSD Setup.

Important

All information is subject to change without prior notice.

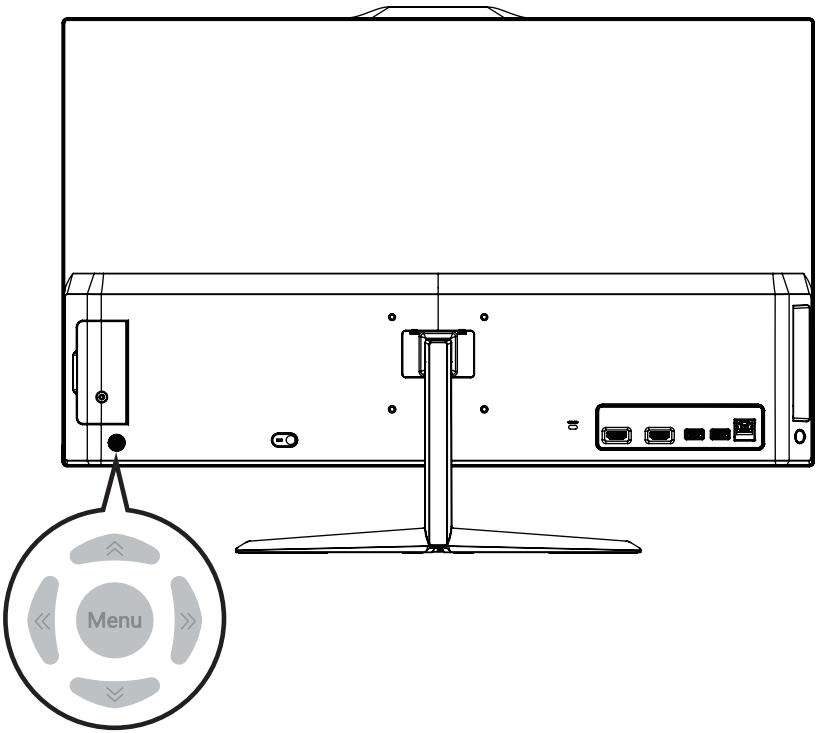
Navi Key

The AIO comes with a Navi Key, a multi-directional control that helps navigate the On-Screen Display (OSD) menu.

Modern AM242 12M

Modern AM242T 12M

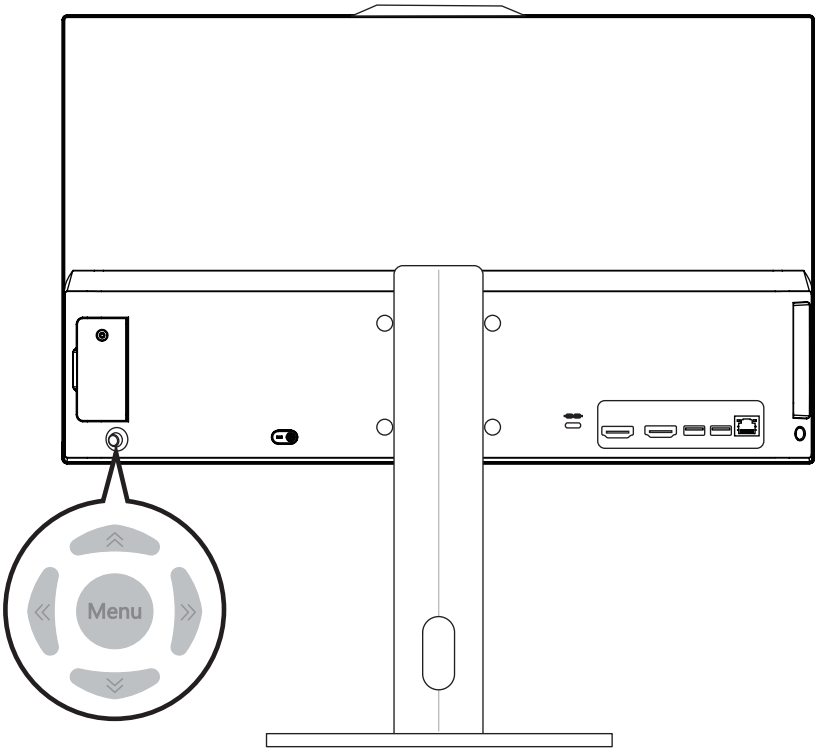
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



Up/Down/Left/Right:

- selecting function menus and items
- adjusting function values
- entering into/exiting from function menus

Press (Menu):

- launching the On-Screen Display (OSD)
- entering submenus
- confirming a selection or setting

Hot Key

- Users may enter into Volume, Brightness, Mode and Input Source function menus by moving the Navi Key up, down, left or right when the OSD menu is inactive.

OSD Setup via Navi Key

Press the Middle button of Navi Key to launch the On-Screen Display (OSD) main menu. Use the Up, Down, Left, Right buttons to tune the desired function menus to suit your personal preferences. Press Menu 3 seconds to shut the panel off. Press Menu again to wake it up.

Image

1st Level Menu	2nd/ 3rd Level Menu	Description
Mode	User	• Default is User. • While sRGB mode is selected, the color space will changed to standard sRGB from original panel gamut.
	Reader	
	Cinema	
	Designer	
	sRGB	
Brightness	0-100	• Default is 80. • Brightness has to be gray out in PC Mode.
Contrast	0-100	• Default is 80.
Sharpness	0-5	• Default is 0.
Eye Saver	OFF	• Default is OFF. • Eye Saver has to be enabled in Reader Mode.
	ON	

1st Level Menu	2nd/ 3rd Level Menu		Description
Color Temperature	Cool		• Default is Normal. • Cool Mode is 9300K; Normal Mode is 6500K; Warm Mode is 5000K. • Customization Mode default R/G/B are 50/50/50. • Color Temperature has to gray out while sRGB mode is selected.
	Normal		
	Warm		
	Customization	R (0-100)	
		G (0-100)	
		B (0-100)	
Screen Size	4:3		• Default is 16:9.
	16:9		

Input Source

1st Level Menu	Description
PC	User can use Navi Key, and OSD Menu to adjust the Input Source in any Mode.
HDMI	

Setting

1st Level Menu	2nd Level Menu	Description
Language	English	• Default is English. • Language is an independent setting. User's own language setting will override the factory default. When user sets Reset to Yes, Language will not be changed.
	繁體中文	
	简体中文	
	Italiano	
	Español	
	Français	
	Português	
	Deutsch	
	日本語	
	Русский	

1st Level Menu	2nd Level Menu	Description
Transparency	0-5	• Default is 0.
OSD Time Out	5-30	• Default is 20s.
Audio Volume	0-100	• Default is 50.
Reset	YES	• User can Reset the settings to original OSD default in any Mode.
	NO	

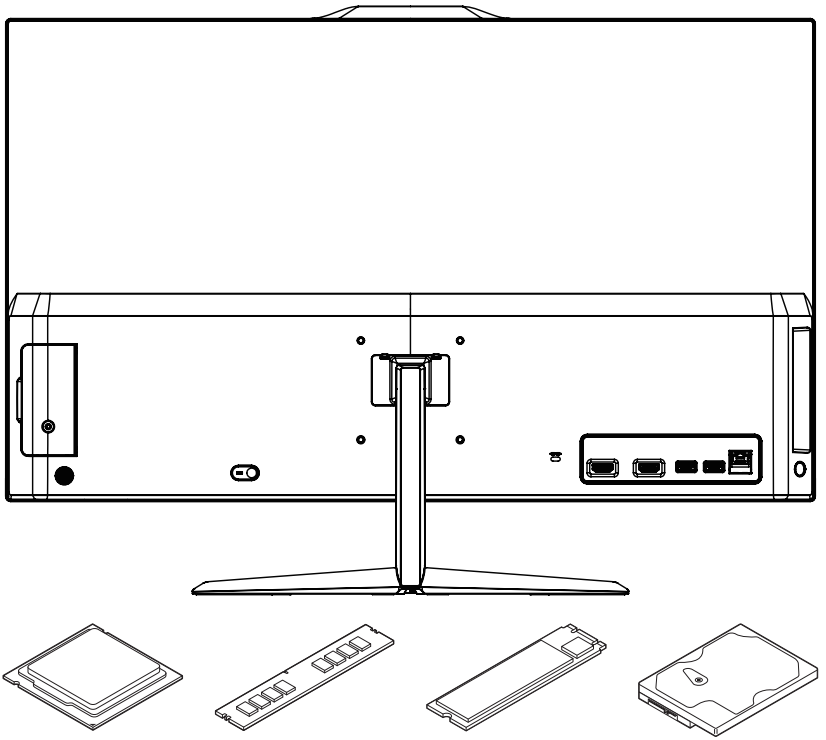
Component Replacement & Upgrade

Please note that certain components preinstalled in the product may be upgradable or replaceable by user's request depending on the models users purchased.

Modern AM242 12M

Modern AM242T 12M

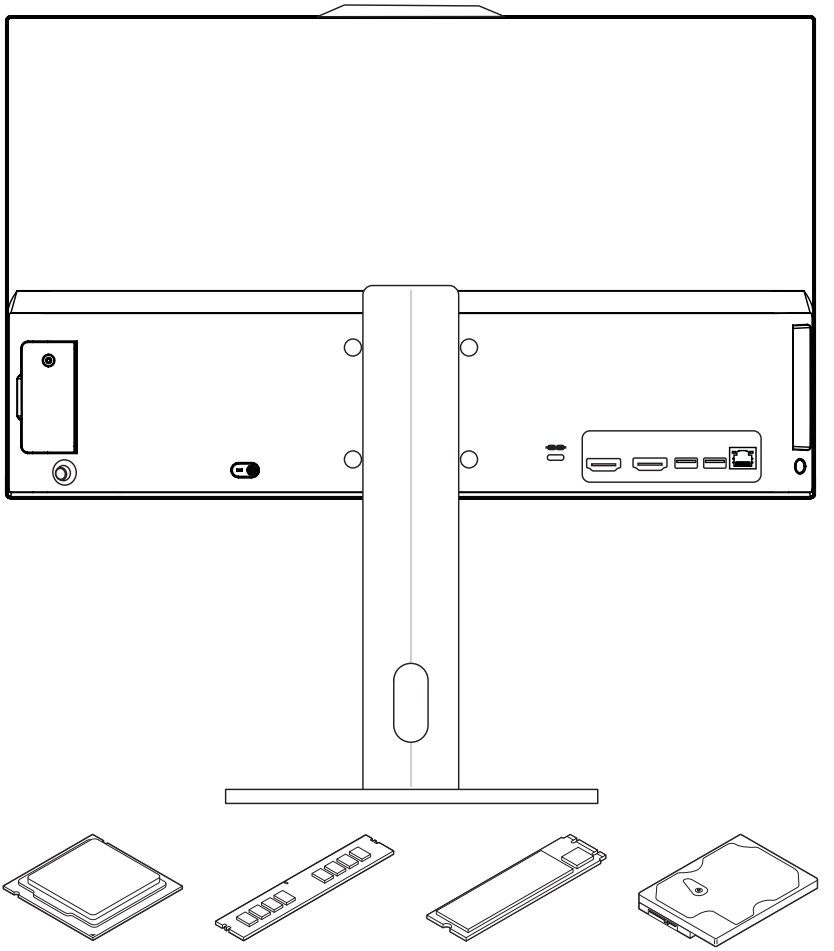
Modern AM272 12M



Modern AM242P 12M

Modern AM242TP 12M

Modern AM272P 12M



For any further information on the product users purchased, please contact the local dealer. Do not attempt to upgrade or replace any component of the product if you are not an authorized dealer or service center, since it may cause the warranty void. It is strongly recommended that you contact the authorized dealer or service center for any upgrade or replace service.

Windows 11 System Operations

Important

All information and Windows screenshots are subject to change without prior notice.

Power Management

Power management of personal computers (PCs) and monitors has the potential to save significant amounts of electricity as well as deliver environmental benefits.

To be energy efficient, turn off your display or set your PC to sleep mode after a period of user inactivity.

1. Right-click [Start] and select [Power Options] from the list.
2. Adjust [Screen and sleep] settings and select a power mode from the list.
3. To choose or customize a power plan, type control panel in the search box and select [Control Panel].
4. Open up [All Control Panel Items] window. Select [Large icons] under [View by] drop-down menu.
5. Select [Power Options] to continue.
6. Select a power plan and fine-tune the settings by clicking [Change plan settings].
7. To create your own power plan, select (Create a power plan).
8. Select an existing plan and give it a new name.
9. Adjust settings for your new power plan.
10. The [Shut down or sign out] menu also presents power saving options for rapid and easy management of your system power.

Energy Savings

The power management feature allows the computer to initiate a low-power or "Sleep" mode after a period of user inactivity. To take advantage of these potential energy savings, the power management feature has been preset to behave in the following ways when the system is operating on AC power:

- Turn off the display after 10 minutes
- Initiate Sleep after 30 minutes

Waking the System Up

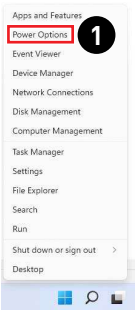
The computer shall be able to wake up from power saving mode in response to a command from any of the following:

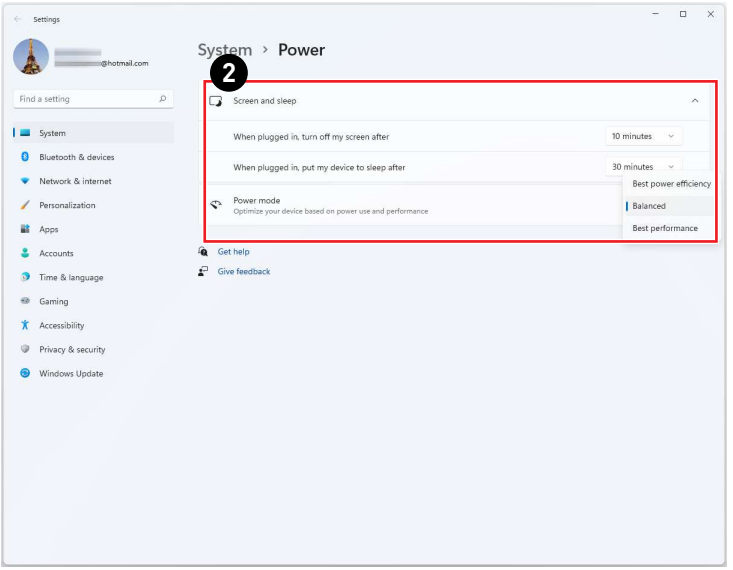
- the power button,
- the network (Wake On LAN),
- the mouse,
- the keyboard.

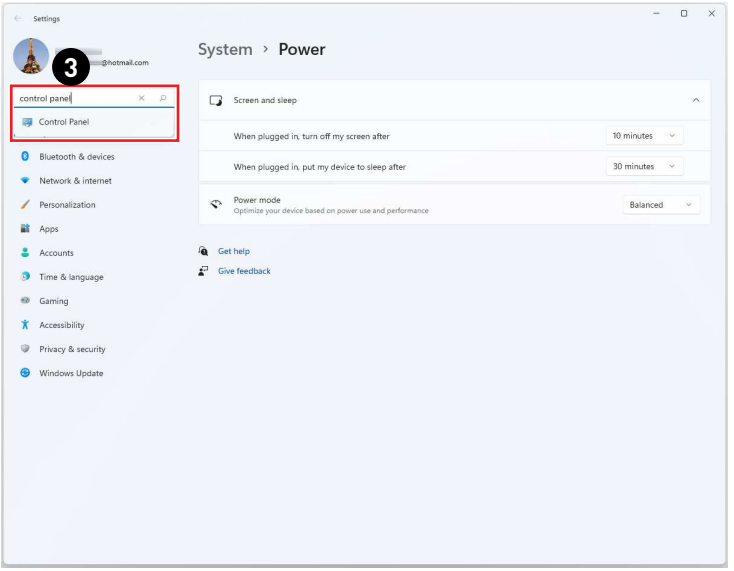
Energy Saving Tips:

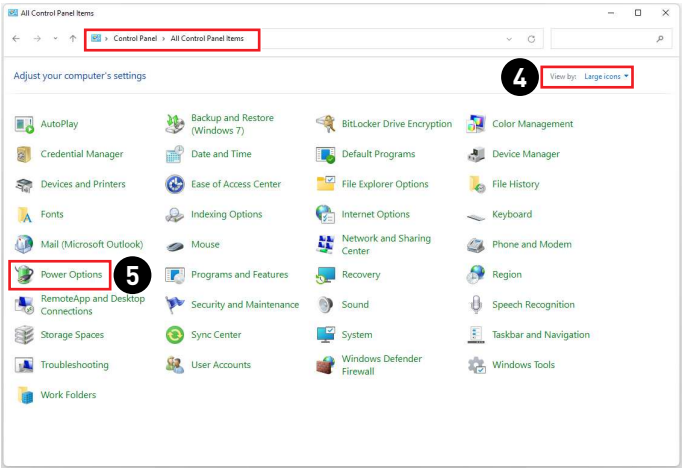
- Turn off the monitor by pressing the monitor power button after a period of user inactivity.

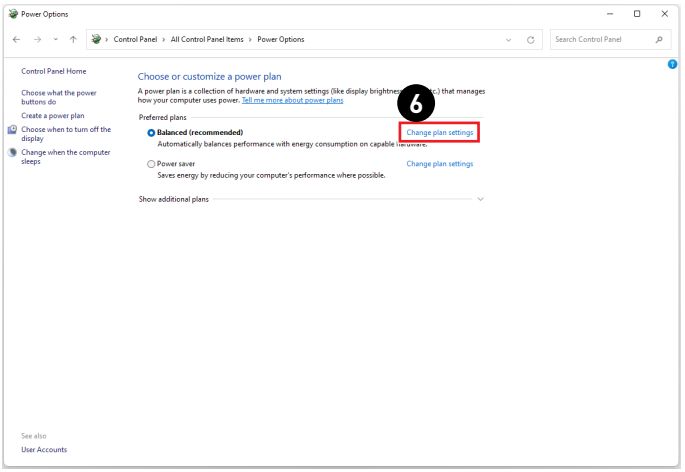
- Tune the settings in Power Options under Windows OS to optimize your PC's power management.
- Install power saving software to manage your PC's energy consumption.
- Always disconnect the AC power cord or switch the wall socket off if your PC would be left unused for a certain time to achieve zero energy consumption.

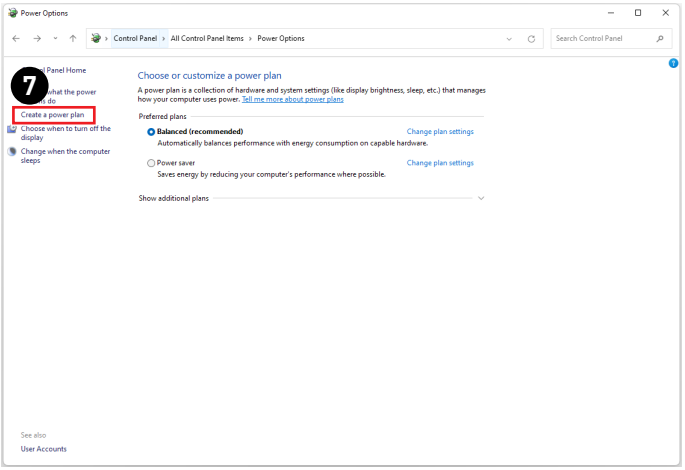







All Control Panel Items
Control Panel › All Control Panel Items
Adjust your computer's settings
View by: Large icons
4
AutoPlay
Backup and Restore (Windows 7)
BitLocker Drive Encryption
Color Management
Credential Manager
Date and Time
Default Programs
Device Manager
Devices and Printers
Ease of Access Center
File Explorer Options
File History
Fonts
Indexing Options
Internet Options
Keyboard
Mail (Microsoft Outlook)
Mouse
Network and Sharing Center
Phone and Modem
Power Options
5
Programs and Features
Recovery
Region
RemoteApp and Desktop Connections
Security and Maintenance
Sound
Speech Recognition
Storage Spaces
Sync Center
System
Taskbar and Navigation
Troubleshooting
User Accounts
Windows Defender Firewall
Windows Tools
Work Folders


Power Options
Control Panel › All Control Panel Items › Power Options
Search Control Panel
Control Panel Home
Choose what the power buttons do
Create a power plan
Choose when to turn off the display
Change when the computer sleeps
Choose or customize a power plan
A power plan is a collection of hardware and system settings (like display brightness, sleep, etc.) that manages how your computer uses power. Tell me more about power plans
6
Preferred plans
Balanced (recommended)
Change plan settings
Automatically balances performance with energy consumption on capable hardware.
Power saver
Change plan settings
Saves energy by reducing your computer's performance where possible.
Show additional plans
See also
User Accounts


Power Options
Control Panel › All Control Panel Items › Power Options
Search Control Panel
Panel Home
what the power do
7
Create a power plan
Choose when to turn off the display
Change when the computer sleeps
Choose or customize a power plan
A power plan is a collection of hardware and system settings (like display brightness, sleep, etc.) that manages how your computer uses power. Tell me more about power plans
Preferred plans
Balanced (recommended)
Change plan settings
Automatically balances performance with energy consumption on capable hardware.
Power saver
Change plan settings
Saves energy by reducing your computer's performance where possible.
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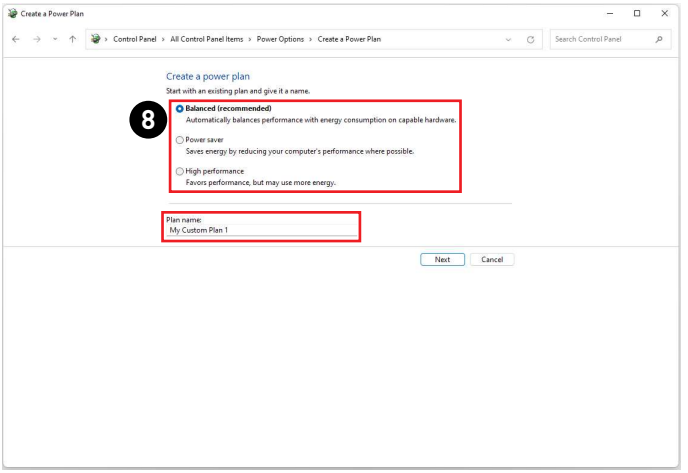
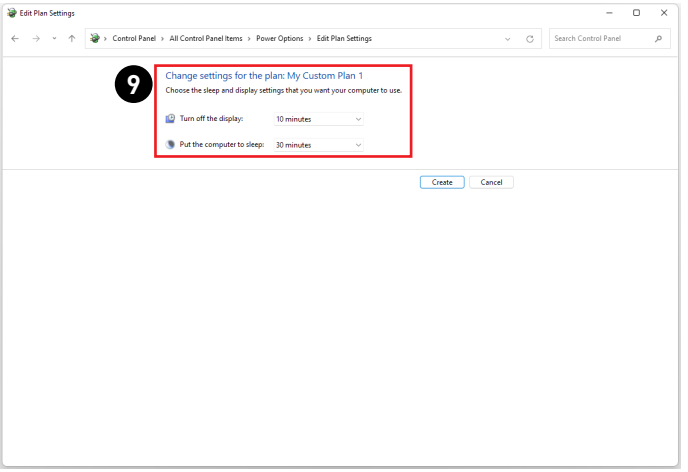
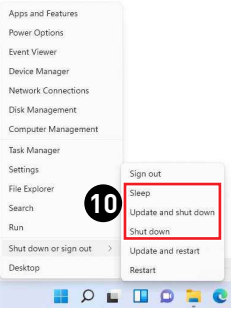
See also
User Accounts


Create a Power Plan
Control Panel › All Control Panel Items › Power Options › Create a Power Plan
Search Control Panel
Create a power plan
Start with an existing plan and give it a name.
8
Balanced (recommended)
Automatically balances performance with energy consumption on capable hardware.
Power saver
Saves energy by reducing your computer's performance where possible.
High performance
Favors performance, but may use more energy.
Plan name:
My Custom Plan 1
Next
Cancel

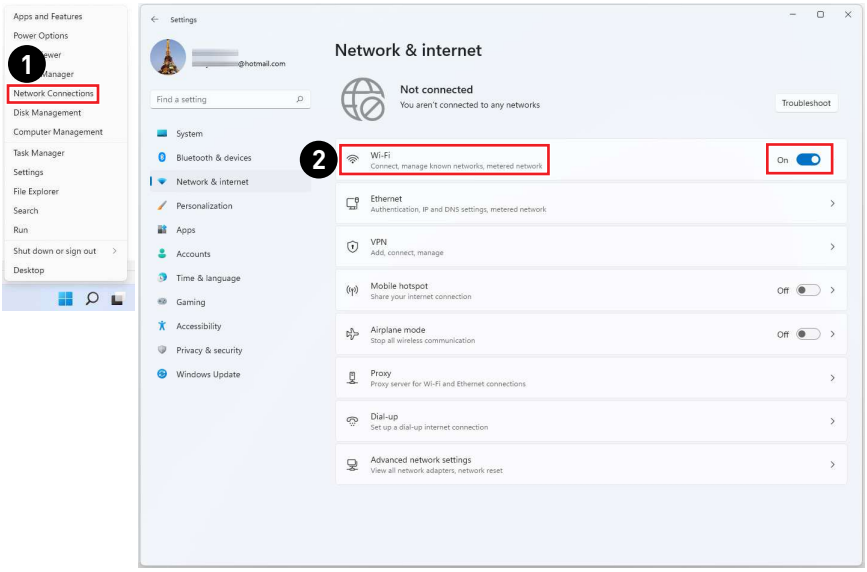

Edit Plan Settings
Control Panel › All Control Panel Items › Power Options › Edit Plan Settings
Search Control Panel
9
Change settings for the plan: My Custom Plan 1
Choose the sleep and display settings that you want your computer to use.
Turn off the display:
10 minutes
Put the computer to sleep:
30 minutes
Create
Cancel

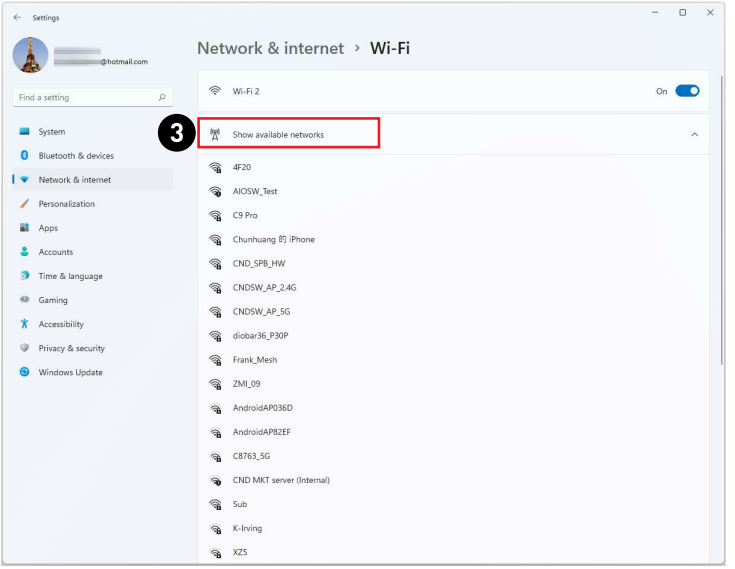

Apps and Features
Power Options
Event Viewer
Device Manager
Network Connections
Disk Management
Computer Management
Task Manager
Settings
File Explorer
Search
Run
Shut down or sign out
Desktop
Sign out
Sleep
Update and shut down
Shut down
Update and restart
Restart
10

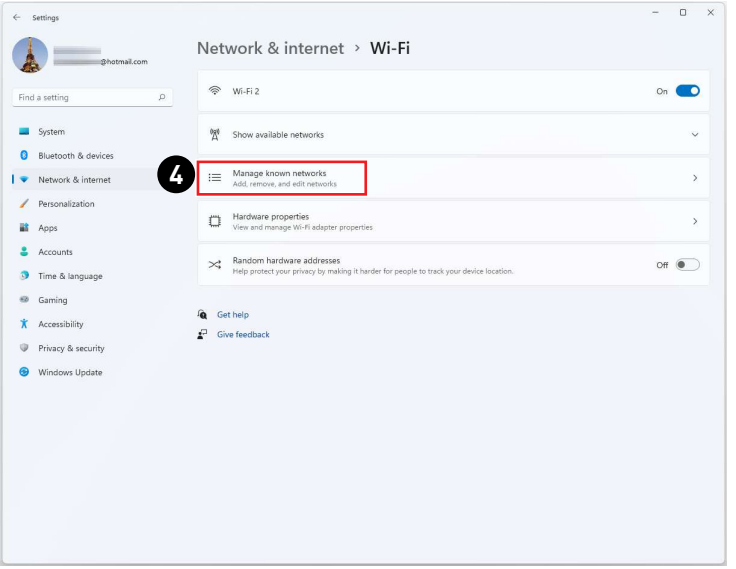
Network Connections

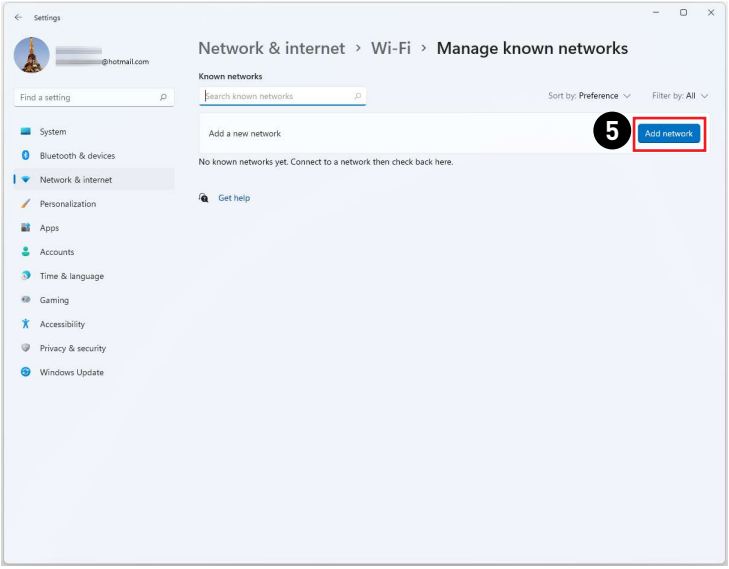
Wi-Fi

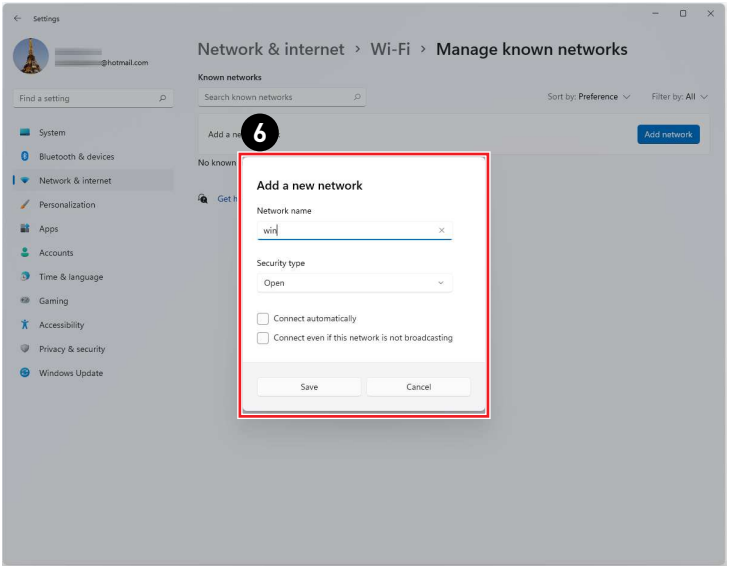
1. Right-click [Start] and select [Network Connections] from the list.
2. Select and turn on [Wi-Fi].
3. Select [Show available networks]. A list of available wireless networks pops up. Choose a connection from the list.
4. To establish a new connection, select [Manage known networks].
5. Select [Add network].
6. Enter information for the wireless network you intend to add and click [Save] to establish a new connection.




Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Wi-Fi
Wi-Fi 2
On
3
Show available networks
4F20
AIOSW_Test
C9 Pro
Chunhuang 的 iPhone
CND_SPB_HW
CNDSW_AP_2.4G
CNDSW_AP_5G
diobar36_P30P
Frank_Mesh
ZMI_09
AndroidAP036D
AndroidAP82EF
C8763_5G
CND MKT server (Internal)
Sub
K-Irving
XZ5

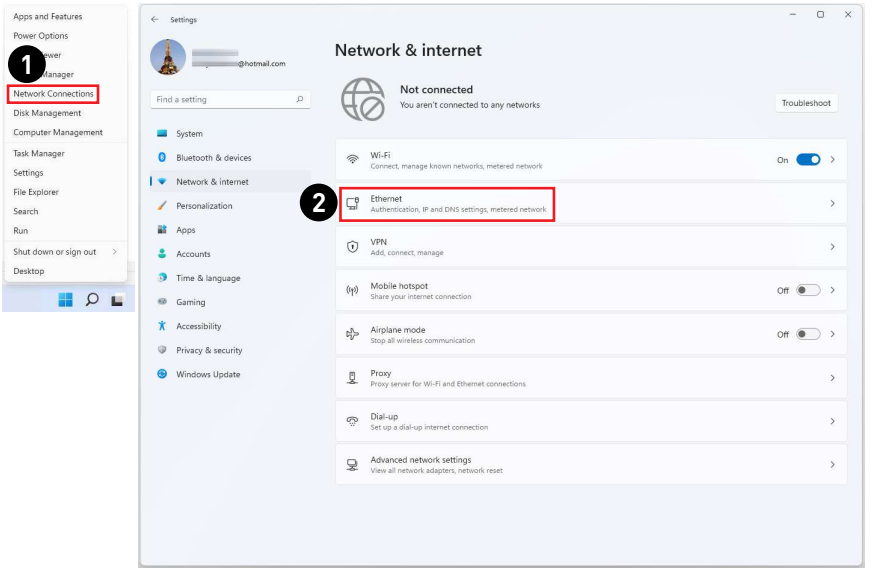

Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Wi-Fi
Wi-Fi 2
On
Show available networks
4
Manage known networks
Add, remove, and edit networks
Hardware properties
View and manage Wi-Fi adapter properties
Random hardware addresses
Help protect your privacy by making it harder for people to track your device location.
Off
Get help
Give feedback

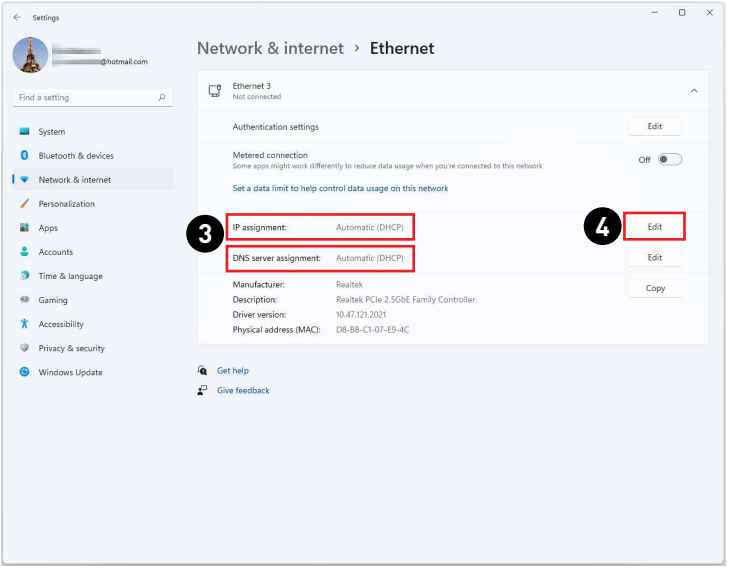

Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Wi-Fi › Manage known networks
Known networks
Search known networks
Sort by: Preference
Filter by: All
Add a new network
5
Add network
No known networks yet. Connect to a network then check back here.
Get help

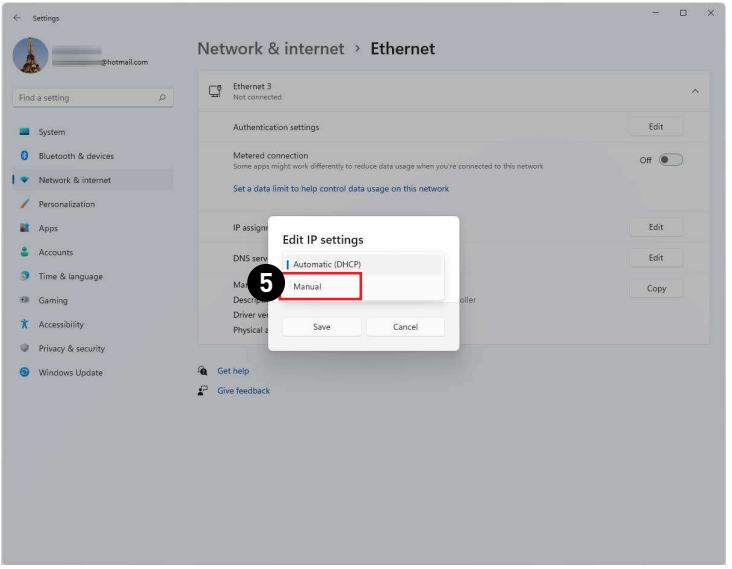

Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Wi-Fi › Manage known networks
Known networks
Search known networks
Sort by: Preference
Filter by: All
6
Add network
Add a new network
Network name
win
Security type
Open
Connect automatically
Connect even if this network is not broadcasting
Save
Cancel

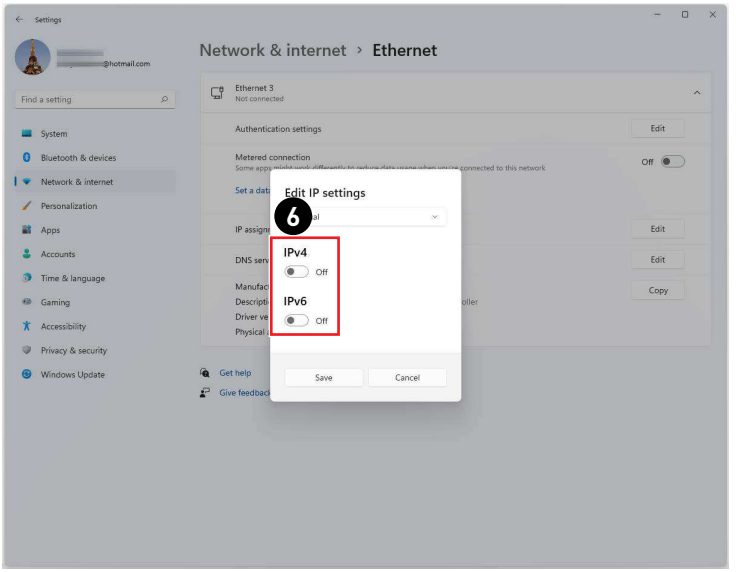
Ethernet

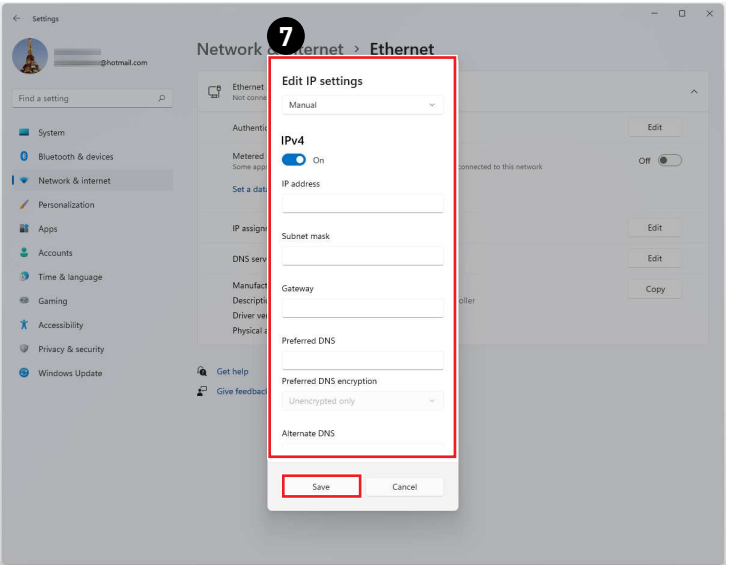
1. Right-click [Start] and select [Network Connections] from the list.
2. Select [Ethernet].
3. The [IP assignment] and [DNS server assignment] are automatically set as [Automatic (DHCP)].
4. For a Static IP connection, click [Edit] of [IP assignment].
5. Select [Manual].
6. Switch on the [IPv4] or [IPv6].
7. Type the information from your Internet Service Provider and click [Save] to establish a Static IP connection.




Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Ethernet
Ethernet 3
Not connected
Authentication settings
Edit
Metered connection
Some apps might work differently to reduce data usage when you're connected to this network
Off
Set a data limit to help control data usage on this network
3
IP assignment: Automatic (DHCP)
4
Edit
DNS server assignment: Automatic (DHCP)
Edit
Manufacturer: Realtek
Description: Realtek PCIe 2.5GbE Family Controller
Driver version: 10.47.121.2021
Physical address (MAC): D8-BB-C1-07-E9-4C
Copy
Get help
Give feedback

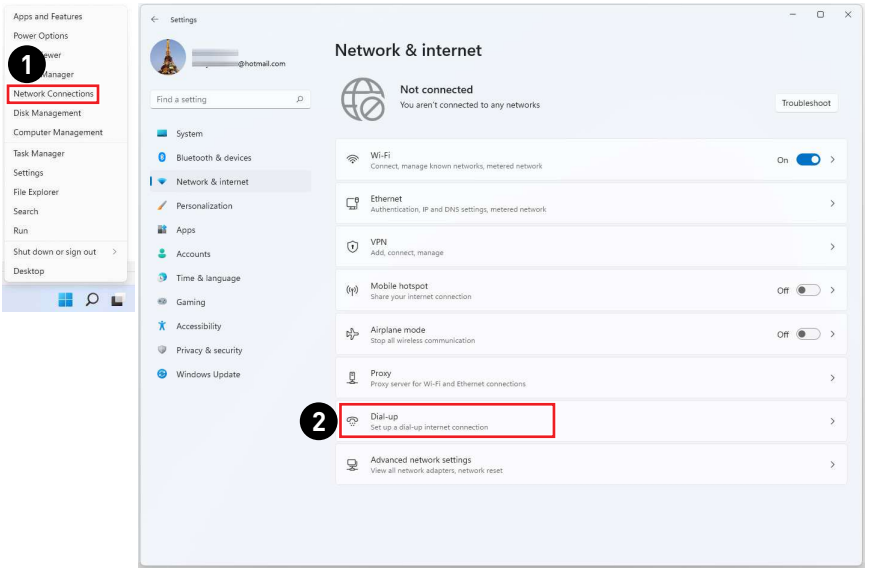

Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Network & internet › Ethernet
Ethernet 3
Not connected
Authentication settings
Edit
Metered connection
Some apps might work differently to reduce data usage when you're connected to this network
Off
Set a data limit to help control data usage on this network
Edit
Edit
Copy
Edit IP settings
Automatic (DHCP)
5
Manual
Save
Cancel
Get help
Give feedback

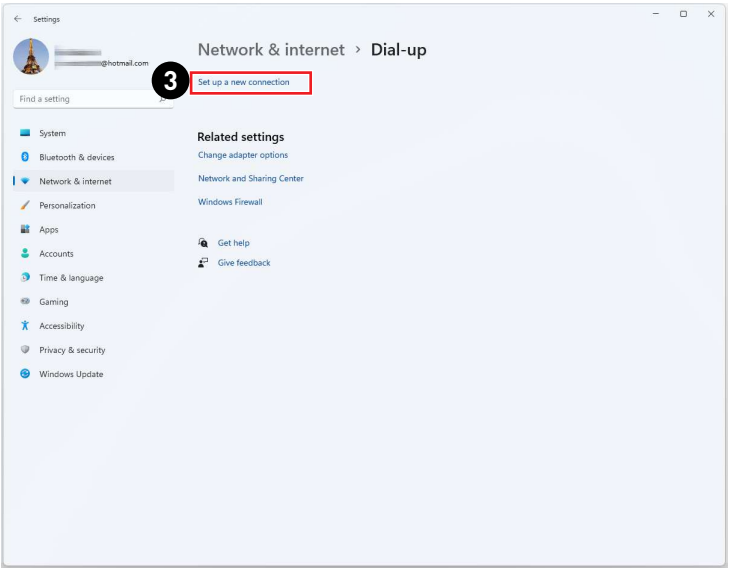

Settings
Network & internet › Ethernet
Edit IP settings
6
IPv4
Off
IPv6
Off
Save
Cancel

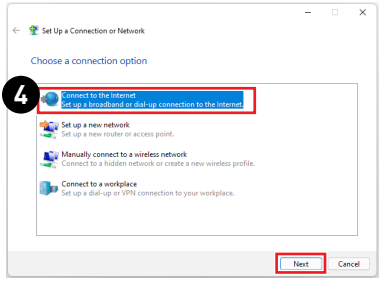

Settings
7
Edit IP settings
Manual
IPv4
On
IP address
Subnet mask
Gateway
Preferred DNS
Preferred DNS encryption
Unencrypted only
Alternate DNS
Save
Cancel

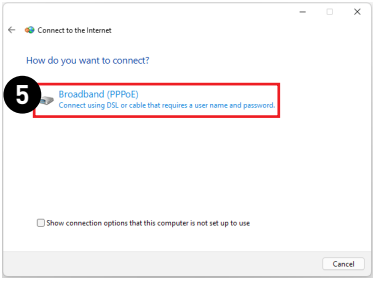
Dial-up

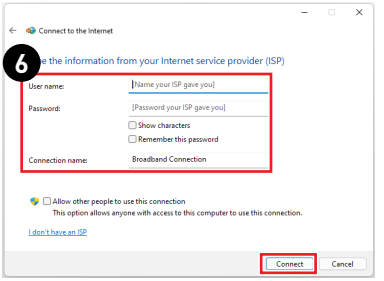
1. Right-click [Start] and select [Network Connections] from the list.
2. Select [Dial-up].
3. Select [Set up a new connection].
4. Choose [Connect to the Internet] and click [Next].
5. Select [Broadband (PPPoE)] to connect using DSL or cable that requires a user name and password.
6. Type the information from your Internet Service Provider (ISP) and click [Connect] to establish your LAN connection.




Settings
Network & internet › Dial-up
3
Set up a new connection
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
Related settings
Change adapter options
Network and Sharing Center
Windows Firewall
Get help
Give feedback


Set Up a Connection or Network
Choose a connection option
4
Connect to the Internet
Set up a broadband or dial-up connection to the Internet.
Set up a new network
Set up a new router or access point.
Manually connect to a wireless network
Connect to a hidden network or create a new wireless profile.
Connect to a workplace
Set up a dial-up or VPN connection to your workplace.
Next
Cancel


Connect to the Internet
How do you want to connect?
5
Broadband (PPPoE)
Connect using DSL or cable that requires a user name and password.
Show connection options that this computer is not set up to use
Cancel


Connect to the Internet
6
e the information from your Internet service provider (ISP)
User name:
[Name your ISP gave you]
Password:
[Password your ISP gave you]
Show characters
Remember this password
Connection name:
Broadband Connection
Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.
I don't have an ISP
Connect
Cancel

System Recovery

The purposes for using the System Recovery Function may include:

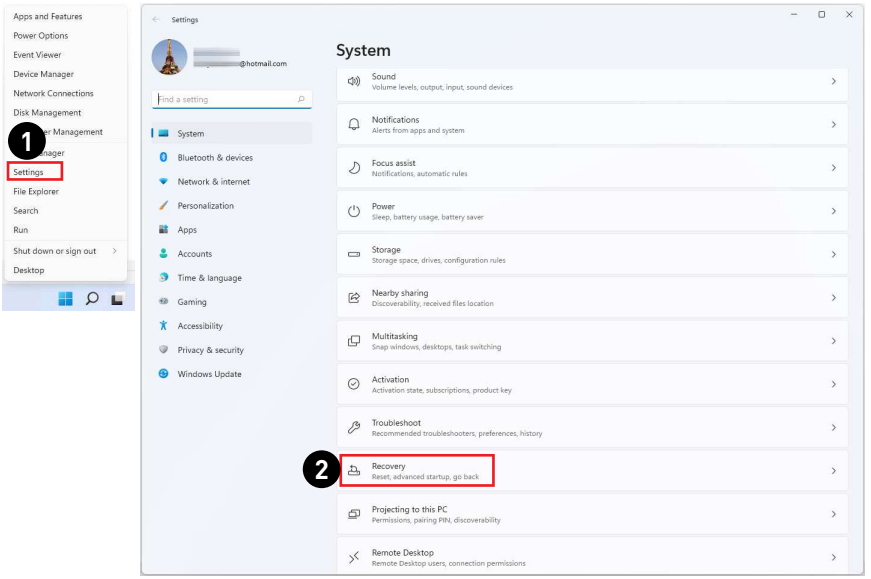
- Restore the system back to the initial status of original manufacturer's default settings.
- When some errors have occurred to the operating system in use.
- When the operating system is affected by virus and is not able to work normally.
- When you want to install the OS with other built-in languages.

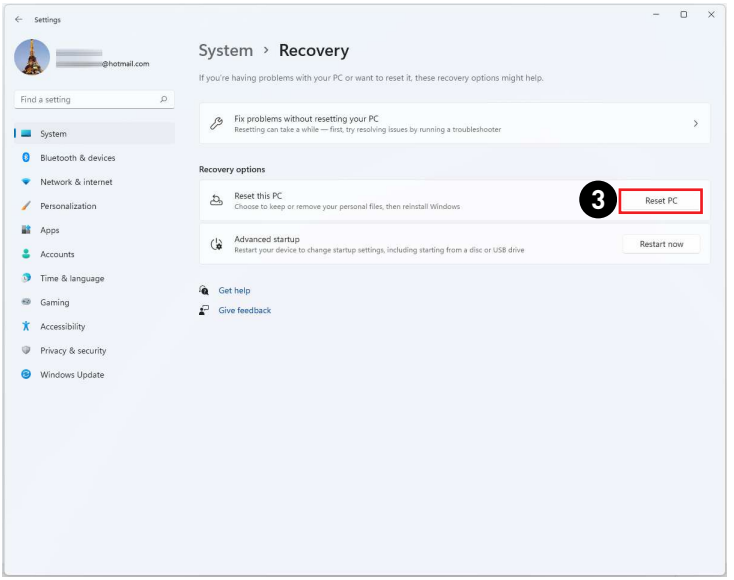
Before using the System Recovery Function, please back up the important data saved on your system drive to other storage devices.

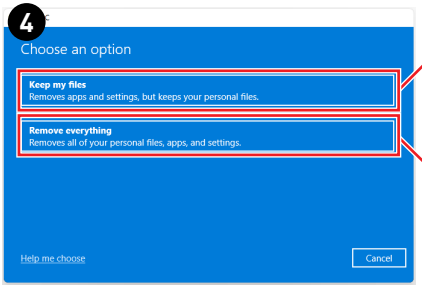
If the following solution fails to recover your system, please contact the authorized local distributor or service center for further assistance.

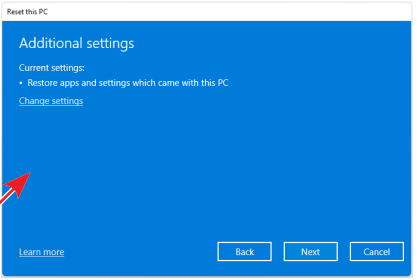
Reset this PC

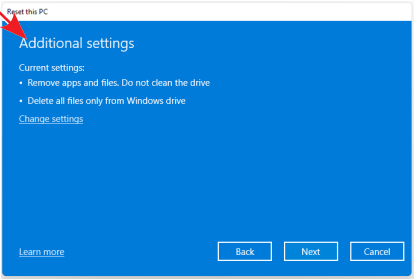
1. Right-click [Start] and select [Settings] from the list.
2. Select [Recovery] under [System].
3. Click [Reset PC] to start the system recovery.
4. The [Choose an option] screen pops up. Choose between [Keep my files] and [Remove everything] and follow the on-screen instructions to complete your system recovery.




Settings
@hotmail.com
Find a setting
System
Bluetooth & devices
Network & internet
Personalization
Apps
Accounts
Time & language
Gaming
Accessibility
Privacy & security
Windows Update
System › Recovery
If you're having problems with your PC or want to reset it, these recovery options might help.
Fix problems without resetting your PC
Resetting can take a while — first, try resolving issues by running a troubleshooter
Recovery options
Reset this PC
Choose to keep or remove your personal files, then reinstall Windows
3
Reset PC
Advanced startup
Restart your device to change startup settings, including starting from a disc or USB drive
Restart now
Get help
Give feedback


4
Choose an option
Keep my files
Removes apps and settings, but keeps your personal files.
Remove everything
Removes all of your personal files, apps, and settings.
Help me choose
Cancel


Reset this PC
Additional settings
Current settings:
• Restore apps and settings which came with this PC
Change settings
Learn more
Back
Next
Cancel


Reset this PC
Additional settings
Current settings:
• Remove apps and files. Do not clean the drive
• Delete all files only from Windows drive
Change settings
Learn more
Back
Next
Cancel

F3 Hotkey Recovery (Optional)

Precautions for Using the System Recovery Function

1. If your hard drive and system encountered non-recoverable problems, please use the F3 Hotkey recovery from the Hard Drive first to perform the System Recover Function.
2. Before using the System Recovery Function, please back up the important data saved on your system drive to other storage devices.

Recovering the system with the F3 Hotkey

Follow the instructions below to continue:

1. Restart the PC.
2. Press the F3 hotkey on the keyboard promptly when the MSI greeting appears on the display.
3. On the [Choose an option] screen, select [Troubleshoot].
4. On the [Troubleshoot] screen, select [Restore MSI factory settings] to reset the system to the default settings.
5. On the [RECOVERY SYSTEM] screen, select [System Partition Recovery].
6. Follow the on-screen instructions to continue and complete the Recovery Function.

Troubleshooting

My system does not start.

- Check if the system is connected to an electrical outlet and it is turned on.
- Check if the power cord and all cables are connected firmly.

When I turn on my computer, the message "Operating System not found" appears or Windows does not start.

- Check if there is a non-bootable CD/ DVD inside the optical disk drive. If so, remove the CD/ DVD then restart the computer.
- Check Boot Device Priority settings in the BIOS Setup.

The system can not be shut down.

It is best to shut down your computer using the Shut Down icon in the operating system. Using other methods, including those listed below, may result in data failure. If the Shut Down procedure does not work, choose one of the following steps:

- Press Ctrl+Alt+Del keys, then choose Shut Down.
- Press and hold the power button till the system is off.
- Unplug the power cable from the system.

My microphone does not work.

- For built-in microphone, please go to Start > Control Panel > Sounds and Audio Devices > Audio to check if it is muted.
- If you are using an external microphone, check that the microphone is plugged into the Microphone jack.

The Internet connection has problems.

- If you are having a problem connecting to your Internet Service Provider (ISP), check if the ISP is experiencing technical problems.
- Check the Network settings and connection and make sure the system is properly configured to Internet access.
- The wireless LAN data transfer speed is affected by distance and obstructions between devices and access points. To maximize the data transfer speed, choose the access point closest to your system.

System speakers do not work.

- Check the master volume setting in the Audio Mixer.
- If you are using an application that has its own volume control, check if the volume is muted.
- If you have connected an audio cable to the Headphone jack, disconnect it.
- If the system has OSD function, please adjust the volume of OSD.

System monitor does not display anything.

- Check if the system is connected to an electrical outlet and it is turned on.
- The system may be in Standby mode. Press any key to activate the Display.

Safety Instructions

- Read the safety instructions carefully and thoroughly.
- All cautions and warnings on the device or User Guide should be noted.
- Refer servicing to qualified personnel only.

Power

- Make sure that the power voltage is within its safety range and has been adjusted properly to the value of 100~240V before connecting the device to the power outlet.
- If the power cord comes with a 3-pin plug, do not disable the protective earth pin from the plug. The device must be connected to an earthed mains socket-outlet.
- Please confirm the power distribution system in the installation site shall provide the circuit breaker rated 120/240V, 20A (maximum).
- Always unplug the power cord before installing any add-on card or module to the device.
- Always disconnect the power cord or switch the wall socket off if the device would be left unused for a certain time to achieve zero energy consumption.
- Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
- If this device comes with an adapter, use only the MSI provided AC adapter approved for use with this device.

Battery

Please take special precautions if this device comes with a battery.

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- Avoid disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, which can result in an explosion.
- Avoid leaving a battery in an extremely high temperature or extremely low air pressure environment that can result in an explosion or the leakage of flammable liquid or gas.
- Do not ingest battery. If the coin/button cell battery is swallowed, it can cause severe internal burns and can lead to death. Keep new and used batteries away from children.

European Union:

Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.

Taiwan:

廢電池請回收
For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

California, USA:

The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California.
For further information please visit: https://dtsc.ca.gov/perchlorate/

Environment

- To reduce the possibility of heat-related injuries or of overheating the device, do not place the device on a soft, unsteady surface or obstruct its air ventilators.
- Use this device only on a hard, flat and steady surface.
- To prevent the device from tipping over, secure the device to a desk, wall or fixed object with an anti-tip fastener that helps to properly support the device and keep it safe in place.
- To prevent fire or shock hazard, keep this device away from humidity and high temperature.
- Do not leave the device in an unconditioned environment with a storage temperature above 60°C or below 0°C, which may damage the device.
- The maximum operating temperature is around 35°C.
- When cleaning the device, be sure to remove the power plug. Use a piece of soft cloth rather than industrial chemical to clean the device. Never pour any liquid into the opening; that could damage the device or cause electric shock.
- Always keep strong magnetic or electrical objects away from the device.
- If any of the following situations arises, get the device checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the device.
  - The device has been exposed to moisture.
  - The device does not work well or you can not get it working according to the User Guide.
  - The device has dropped and damaged.
  - The device has obvious sign of breakage.

TÜV Rheinland Certification

TÜV Rheinland Low Blue Light Certification

Blue light has been shown to cause eye fatigue and discomfort. MSI now offers monitors with TÜV Rheinland Low Blue Light certification to ensure users' eye comfort and well-being. Please follow the instructions below to reduce the symptoms from extended exposure to the screen and blue light.

Low Blue Light (Software Solution)

www.tuv.com

- Place the screen 20 – 28 inches (50 – 70 cm) away from your eyes and a little below eye level.
- Consciously blinking the eyes every now and then will help to reduce eye strain after extended screen time.
- Take breaks for 20 minutes every 2 hours.
- Look away from the screen and gaze at a distant object for at least 20 seconds during breaks.
- Make stretches to relieve body fatigue or pain during breaks.
- Use the Reader/Anti-Blue mode or turn on the optional Low Blue Light function.

TÜV Rheinland Flicker Free Certification

Flicker Free

www.tuv.com

- TÜV Rheinland has tested this product to ascertain whether the display produces visible and invisible flicker for the human eye and therefore strains the eyes of users.
- TÜV Rheinland has defined a catalogue of tests, which sets out minimum standards at various frequency ranges. The test catalogue is based on internationally applicable standards or standards common within the industry and exceeds these requirements.
- The product has been tested in the laboratory according to these criteria.
- The keyword "Flicker Free" confirms that the device has no visible and invisible flicker defined in this standard within the range of 0 - 3000 Hz under various brightness settings.
- The display will not support Flicker Free when Anti Motion Blur/MPRT is enabled. (The availability of Anti Motion Blur/MPRT varies by products.)

Regulatory Notices

CE Conformity

Products bearing the CE marking comply with one or more of the following EU Directives as may be applicable:

- RED 2014/53/EU
- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- ErP Directive 2009/125/EC

Compliance with these directives is assessed using applicable European Harmonized Standards.

The point of contact for regulatory matters is MSI, MSI-NL Eindhoven 5706 5692 ER Son.

Products with Radio Functionality (EMF)

This product incorporates a radio transmitting and receiving device. For computers in normal use, a separation distance of 20 cm ensures that radio frequency exposure levels comply with EU requirements. Products designed to be operated at closer proximities, such as tablet computers, comply with applicable EU requirements in typical operating positions. Products can be operated without maintaining a separation distance unless otherwise indicated in instructions specific to the product.

Restrictions for Products with Radio Functionality (select products only)

CAUTION: IEEE 802.11x wireless LAN with 5.15~5.35 GHz frequency band is restricted for indoor use only in all European Union member states, EFTA (Iceland, Norway, Liechtenstein), and most other European countries (e.g., Switzerland, Turkey, Republic of Serbia). Using this WLAN application outdoors might lead to interference issues with existing radio services.

CAUTION: Fixed outdoor installations for WiGig application (57~66 GHz frequency band) are excluded in all European Union member states, EFTA (Iceland, Norway, Liechtenstein), and other European countries (e.g., Switzerland, Turkey, Republic of Serbia).

Radio frequency bands and maximum power levels	
Features	802.11 a/b/g/n/ac, BT
Frequency Range	2.4 GHz, 5 GHz
Modulation	FHSS, DSSS, OFDM
Power Output	10, 20, 23
Channel Bandwidth	1, 5, 20, 40, 80 MHz

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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 measures listed below:

- 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/television technician for help.

Notice 1

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2

Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

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

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

MSI Computer Corp.

901 Canada Court, City of Industry, CA 91748, USA

(626) 913-0828

www.msi.com

WEEE Statement

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2012/19/EU, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

Chemical Substances Information

In compliance with chemical substances regulations, such as the EU REACH Regulation (Regulation EC No. 1907/2006 of the European Parliament and the Council), MSI provides the information of chemical substances in products at: https://csr.msi.com/global/index

RoHS Statement

Japan JIS C 0950 Material Declaration

A Japanese regulatory requirement, defined by specification JIS C 0950, mandates that manufacturers provide material declarations for certain categories of electronic products offered for sale after July 1, 2006.
https://csr.msi.com/global/Japan-JIS-C-0950-Material-Declarations

India RoHS

This product complies with the "India E-waste (Management and Handling) Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Turkey EEE Regulation

Conforms to the EEE Regulations of the Republic Of Turkey

Ukraine Restriction of Hazardous Substances

The equipment complies with requirements of the Technical Regulation, approved by the Resolution of Cabinet of Ministry of Ukraine as of December 3, 2008 № 1057, in terms of restrictions for the use of certain dangerous substances in electrical and electronic equipment.

Vietnam RoHS

As from December 1, 2012, all products manufactured by MSI comply with Circular 30/2011/TT-BCT temporarily regulating the permitted limits for a number of hazardous substances in electronic and electric products.

Green Product Features

- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

Environmental Policy

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.
- Visit the MSI website and locate a nearby distributor for further recycling information.
- Users may also reach us at gpcontdev@msi.com for information regarding proper disposal, take-back, recycling, and disassembly of MSI products.

Warning!

Overuse of screens is likely to affect eyesight.

Recommendations:

1. Take a 10-minute break for every 30 minutes of screen time.
2. Children under 2 years of age should have no screen time. For children aged 2 years and over, screen time should be limited to less than one hour per day.

Upgrade and Warranty

Please note that certain components preinstalled in the product may be upgradable or replaceable by user's request. For any further information about the product users purchased, please contact the local dealer. Do not attempt to upgrade or replace any component of the product if you are not an authorized dealer or service center, since it may cause the warranty void. It is strongly recommended that you contact the authorized dealer or service center for any upgrade or replace service.

Acquisition of Replaceable Parts

Please be noticed that the acquisition of replaceable parts (or compatible ones) of the product users purchased in certain countries or territories may be fulfilled by the manufacturer within 5 years at most since the product has been discontinued, depending on the official regulations declared at the time. Please contact the manufacturer via https://www.msi.com/support/ for the detailed information about the acquisition of spare parts.

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Technical Support

If a problem arises with your system and no solution can be obtained from the user's manual, please contact your place of purchase or local distributor. Alternatively, please try the following help resources for further guidance. Visit the MSI website for technical guide, BIOS updates, driver updates and other information via https://www.msi.com/support/