



***msi***<sup>®</sup>

# **DRAGON CENTER User Guide**

**(For MSI's Motherboards & Desktops)**

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# About DRAGON CENTER

- Optimize game settings and enjoy a high quality gaming experience.
- System performance tuning, you can choose overclock or silent.
- Monitor system information.
- Adjust the best display settings for your eyes.
- Register your MSI products.
- Control the LED light effects and synchronize effects to your devices.
- Manage network connection settings.
- Use utilities to control special features.



## **Important**

*THE SOFTWARE FEATURES IN THIS USER GUIDE VARY BY PRODUCT.*

*THE SCREENSHOTS FOR THE UI IN THIS USER GUIDE ARE FOR REFERENCE ONLY AND THE ACTUAL UI DESIGN MAY VARY.*

# Get Started

## System Requirements

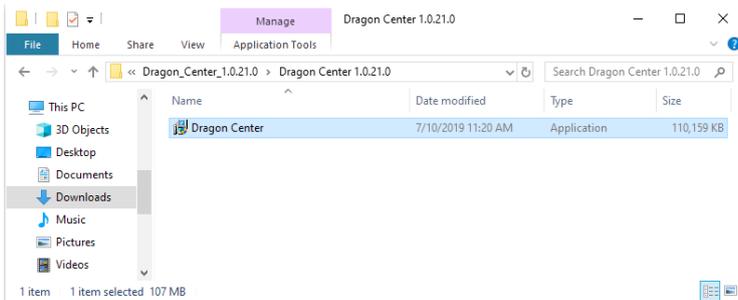
- Operating System:
  - Windows 10 64-bit

## Supported Hardware

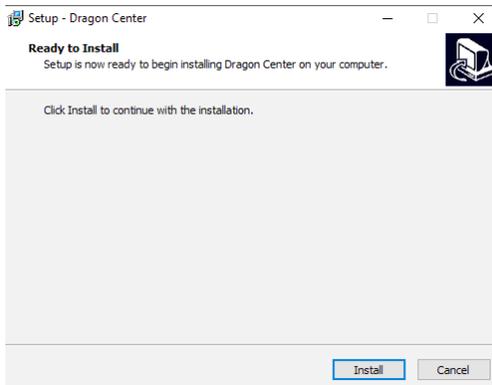
- Motherboard:
  - MSI motherboards
- Graphics card:
  - MSI GeForce RTX 20 & GTX 16 Series graphics cards or newer

## Installing DRAGON CENTER

1. Go to MSI Website download **DRAGON CENTER**.
2. Extract the downloaded file.
3. Double-click on the extracted **Dragon Center** setup program.

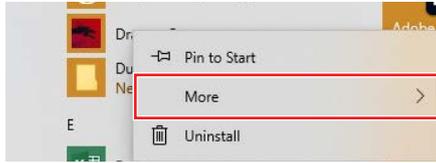


4. Click **Install** to continue the process.

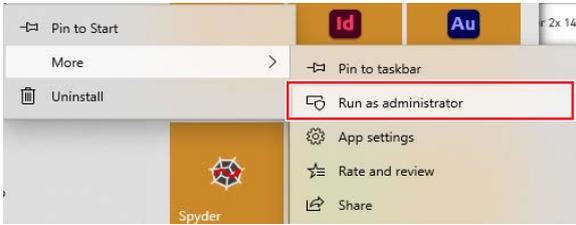


5. Open the Start  menu, then right-click on Dragon Center icon .

6. Hover over **More**.



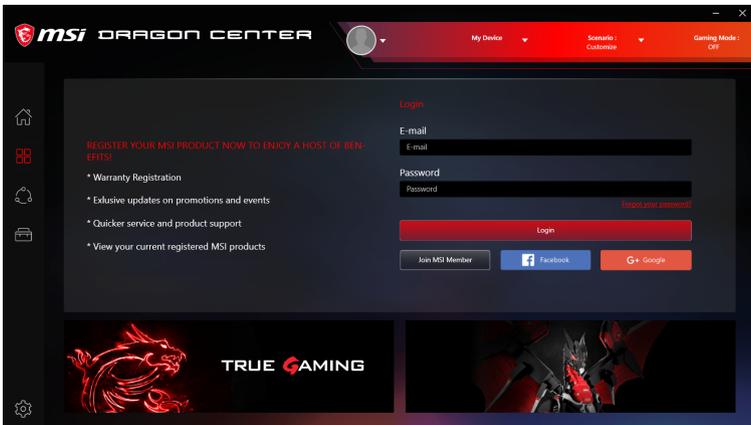
7. Select **Run as administrator**.



8. Please wait until the installation is complete.



9. You can start to use DRAGON CENTER.

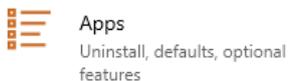


## Launching DRAGON CENTER

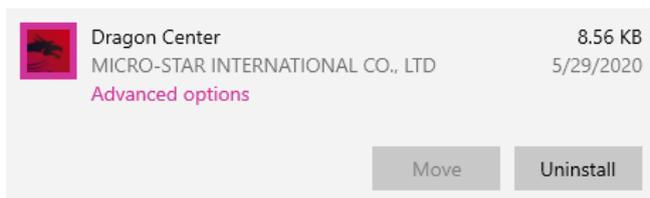
Open the Start  menu, then select Dragon Center .

## How to completely remove DRAGON CENTER

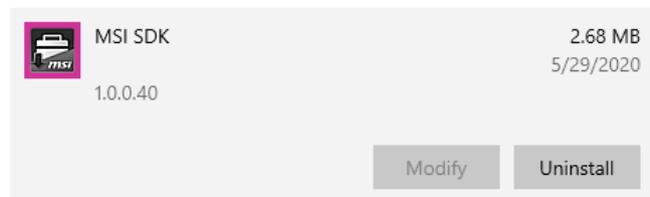
1. Open the Start  menu, then select settings .
2. Select **Apps**.



3. Uninstall **Dragon Center**.



4. Uninstall **MSI SDK**.



# DRAGON CENTER Basics

## Main Screen



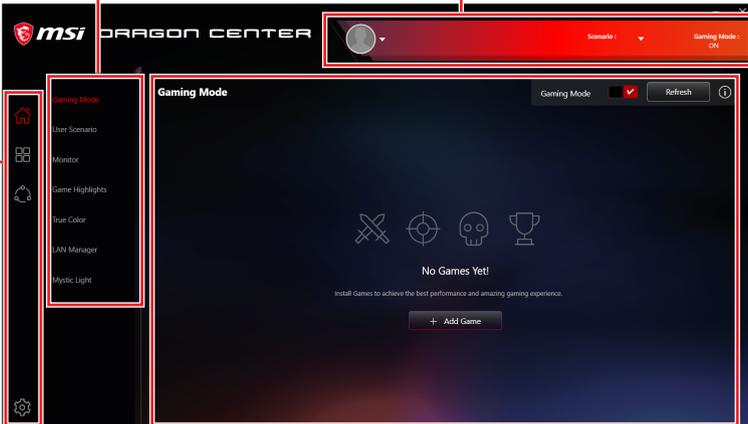
**Important**

The screenshots for the UI in this user guide are for reference only and the actual UI design may vary.

Main Menu

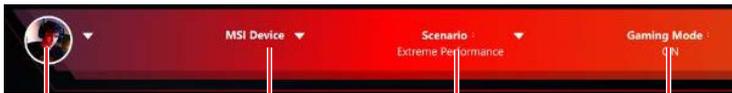
Information Bar

Sub Menu



Operation Panel

## Information Bar



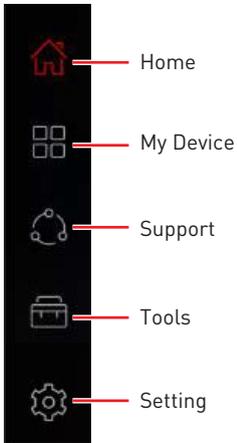
Display System Profile Picture/ Login/ Logout

Display MSI product currently in use. Click to enter the control page.

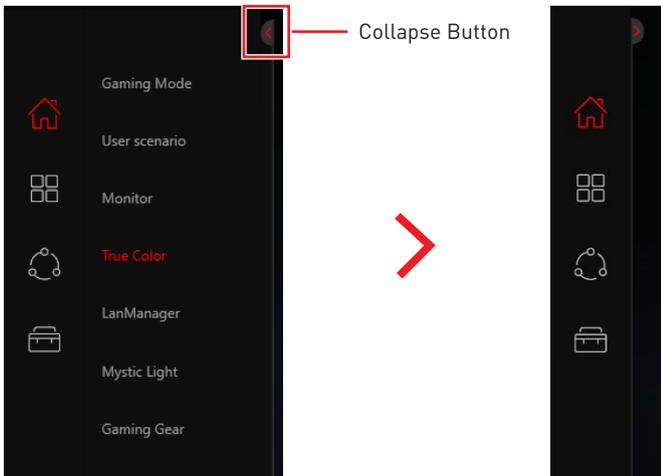
Display mode currently applied. Switch between different modes by selecting a mode from the drop-down menu.

Display Gaming Mode Status.

## Main Menu



## Sub Menu



# Game Optimization

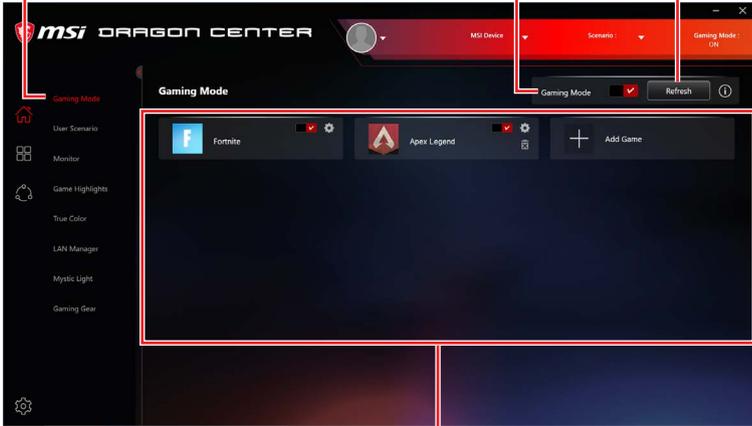
The Gaming Mode feature will optimize the computer system, monitor, cooler and other peripherals to provide the best gaming experience.

## Gaming Mode

Select **Gaming Mode** in the sub menu to enter Gaming Mode control panel

Gaming Mode switch

Refresh software list button



Applications Optimized by Gaming Mode

### Important

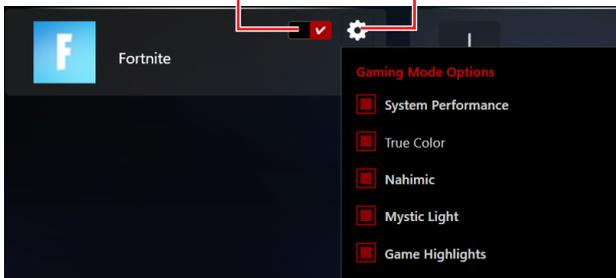
Gaming Mode doesn't support PRO Series Motherboards.

## Gaming Mode Option

Game Mode switch and option settings are available in the upper right corner of each game icon. You can choose whether the game applies Game Mode, such as System Performance, True Color, Nahimic and Touchpad Disable while playing the game.

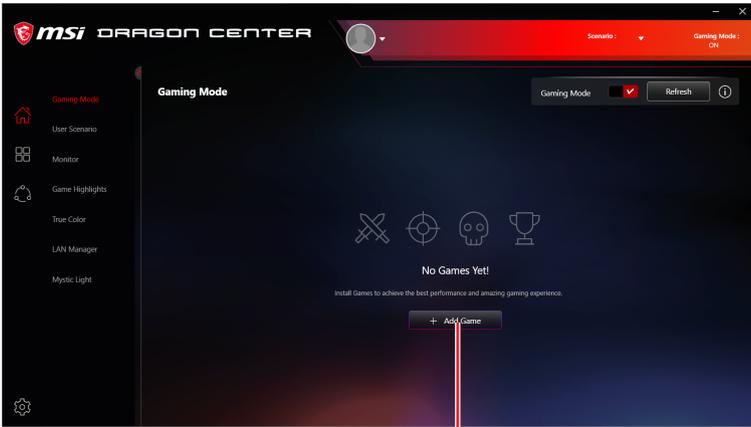
On/Off the switch to apply Gaming mode

Option Settings



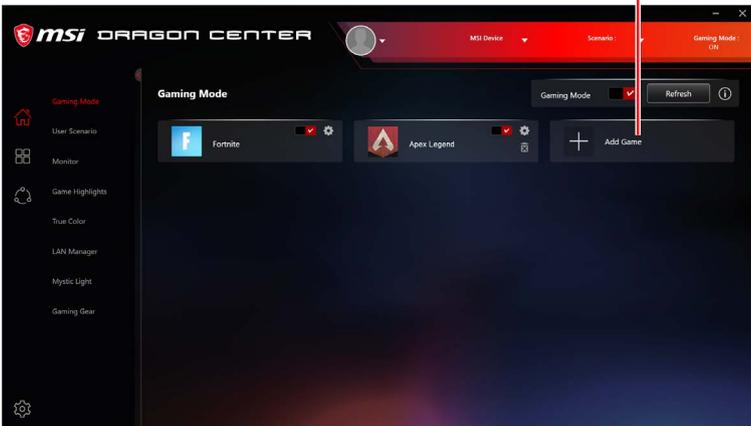
# How to Add Games into Gaming Mode

Click **Add Game** button. Then select the game's **.exe** file.



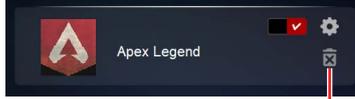
Add Game button

Add Game button



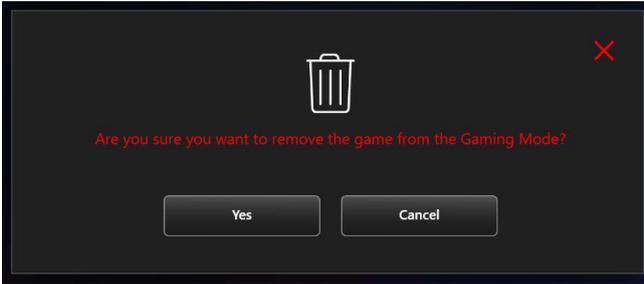
## How to Remove Games from Gaming Mode

1. Click **Remove Game** icon.



Remove Game button

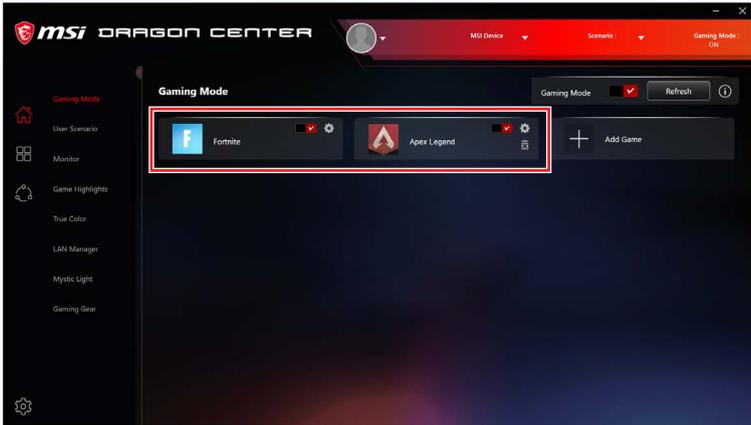
2. When prompted, click **Yes** button to confirm this deletion, or click **Cancel** button to cancel this process.



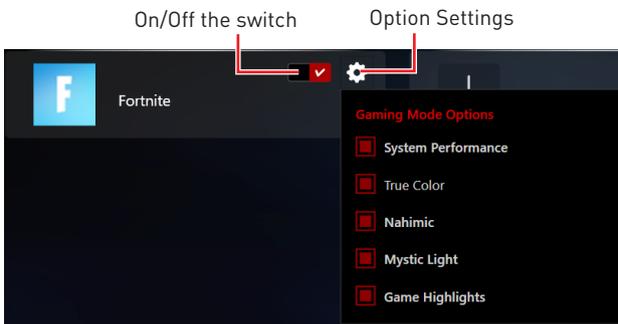
## How to Enable Gaming Mode

You can enable the Gaming Mode to adjust settings for System Performance, True Color, Nahimic, Mystic Light and Game Highlights while playing the game.

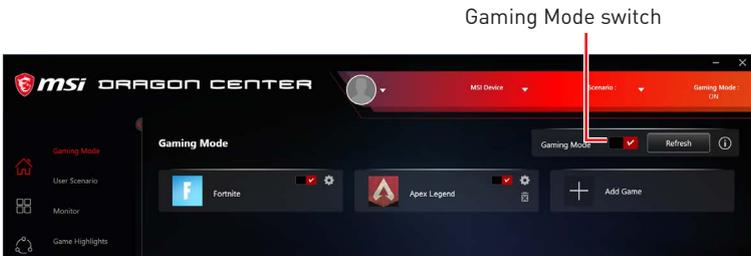
1. Select the installed game icon in Home > Gaming Mode.



2. Check Gaming Mode Options.
3. Turn on the switch for the game.



4. Turn on Gaming Mode switch.



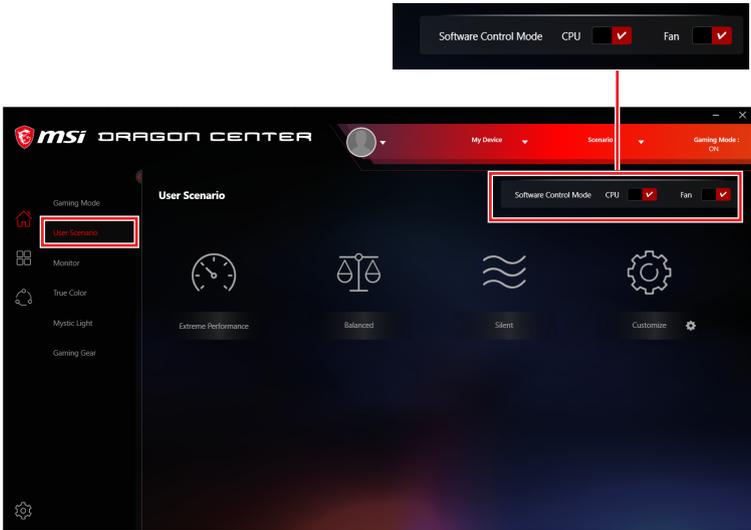
5. Play the game.

# User Scenario

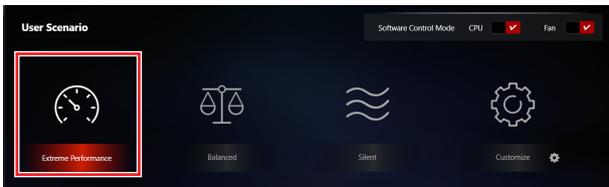
In addition to Gaming mode, users can choose from three scenarios and one customized option depending on different situations. Each scenario has default settings for CPU, DRAM, Fan, and Graphics Card. There is one more function called Software Control Mode, which can switch on/off only CPU and Fan settings in the selected mode.

## Selecting User Scenario

1. Go to Home > User Scenario.
2. Turn on/off Software Control Mode in the upper right corner of the screen.



3. Select one of the options.



4. Restart your computer to apply the settings.
  - **Extreme Performance** – A configuration that boosts the highest possible performance for AAA games, and enables overclocking.
  - **Balance** - MSI recommended settings for average users.
  - **Silent** - A configuration that allows system to run smoothly with minimum loading.
  - **Customize** - Customize the performance level and fan speed as desired.

## Canceling User Scenario

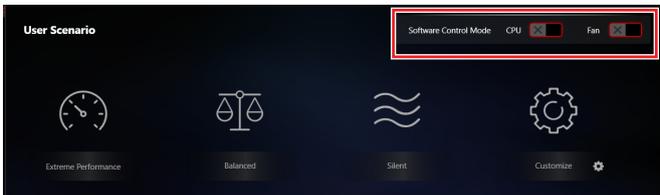
1. Click on the selected scenario again.



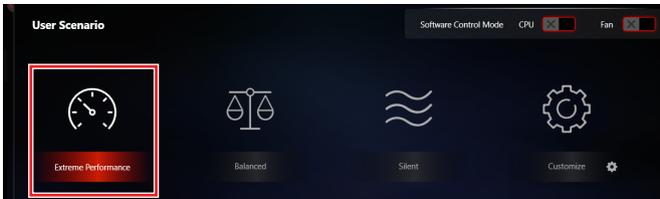
2. Restart your computer to apply the BIOS settings.

### How to disable CPU/Fan settings when applying User Scenario

1. Turn off Software Control Mode in the upper right corner of the screen.



2. Select one of the options to apply the mode except for CPU/Fan settings.



3. Restart your computer to apply the settings.

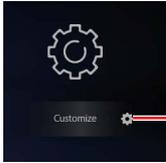


### **Important**

- *Software Control Mode only controls the options in User Scenario, not including Gaming Mode.*
- *After turning on or off Software Control Mode, you need to select one of User Scenario modes to apply the settings.*
- *If you turn on Gaming Mode switch and also select one of User Scenario modes, the system will apply Gaming Mode settings first.*

## Setting User Options

In the lower right corner of User icon, click the setting  icon to customize user options.

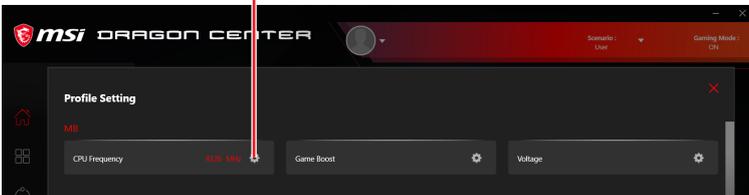


Click to set User Options

## How to Adjust the CPU Frequency

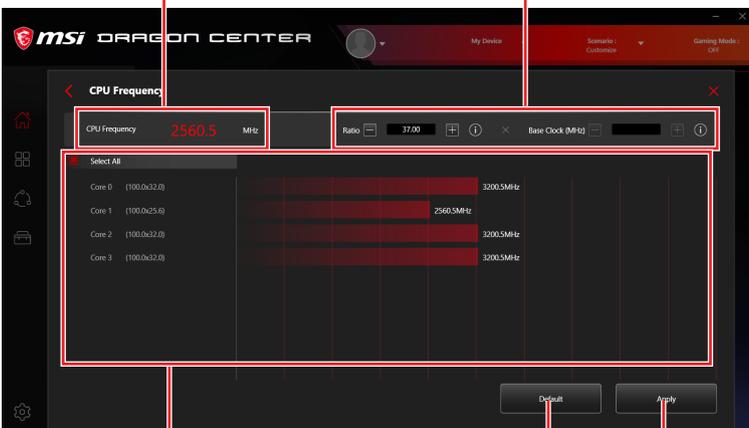
1. Go to Home > User Scenario, click Customize.
2. Click the **MB > CPU Frequency** setting .

Click here



Click   to adjust CPU ratio and Base Clock frequency (BCLK). You can also fill out the value in the input box.

CPU frequency = Ratio \* BCLK



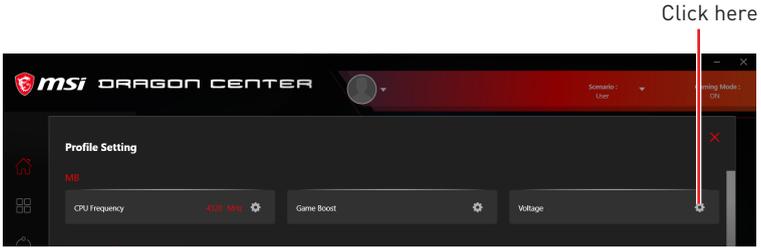
Select all or individual cores

Apply changes

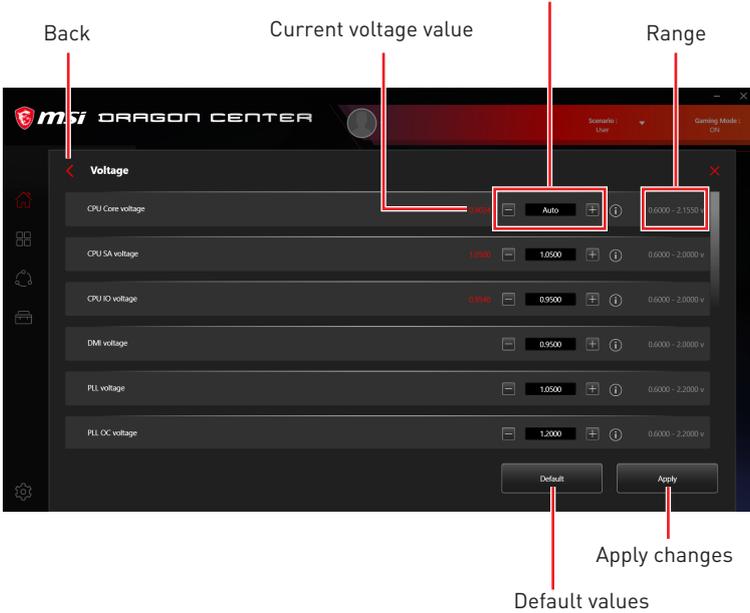
Default values

# How to Adjust the Motherboard Voltage

1. Go to Home > User Scenario, click Customize.
2. Click the **MB > Voltage** setting .



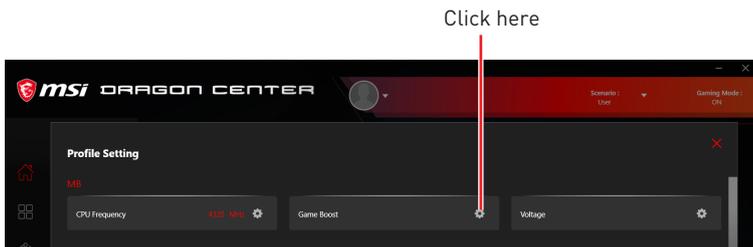
Click   to adjust voltage value. You can also fill out the value in the input box.



## How to Use Game Boost

The GAME BOOST feature allows you to overclock your computer.

1. Go to Home > User Scenario, click Customize.
2. Click the **MB > Game Boost** setting .



## For Motherboard with Game Boost

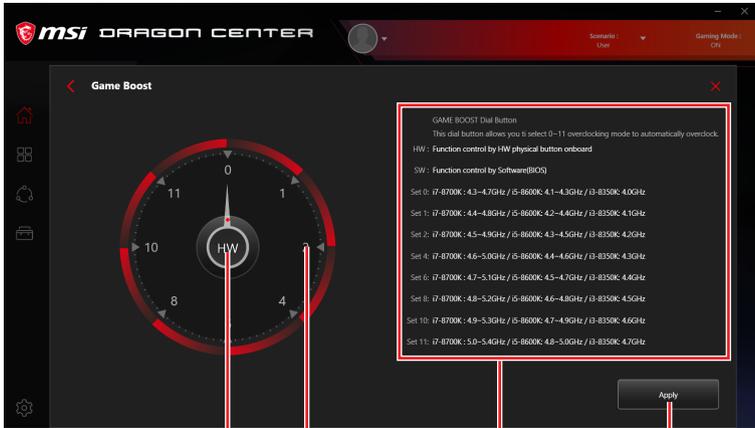


On/Off button to enable/disable Game Boost feature

Apply changes

Function description

## For Motherboard with Game Boost 8 Stages



Apply changes

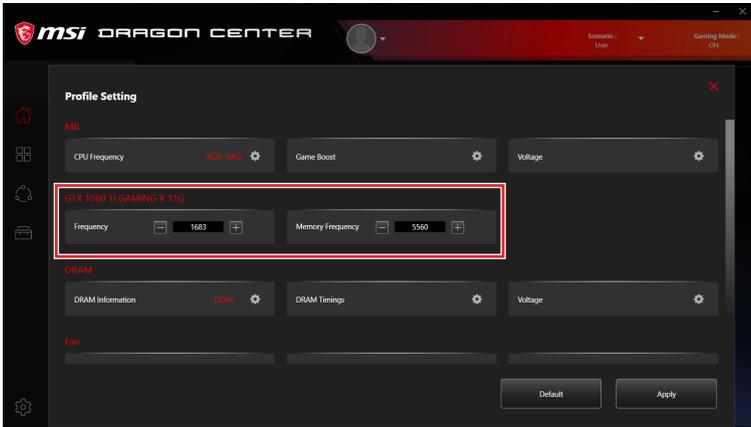
Function description

Click 0~11 number to select a stage from number 0 (default) to number 11 (extreme) for overclocking the processor.

DRAGON CENTER provides the software interface instead of GAME BOOST knob on the motherboard. You can click on the center button to switch GAME BOOST control between software (SW) and hardware (HW).

# How to Adjust the GPU and GPU Memory Frequency

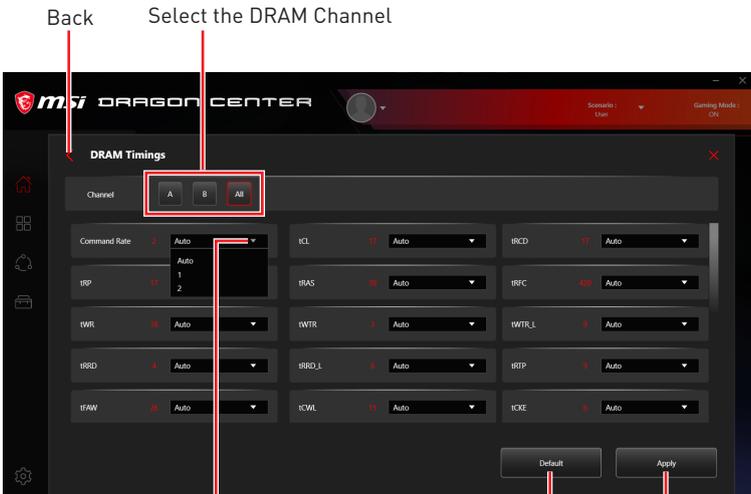
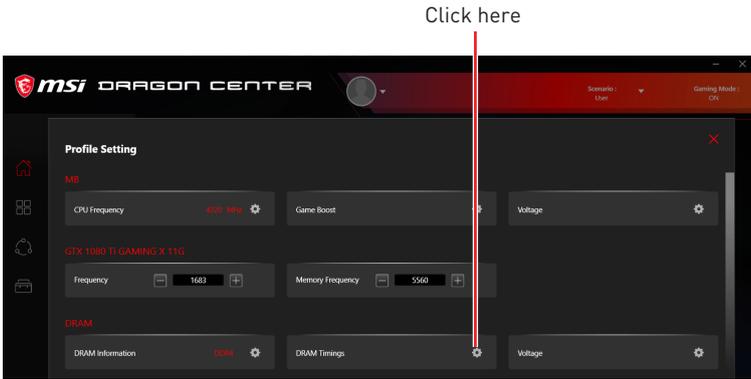
1. Go to Home > User Scenario, click Customize.



2. Click   to adjust GPU Frequency and GPU Memory Frequency. You can also fill out the value in the input box.
3. Click the Apply button to apply change.

# How to Adjust the DRAM Timing

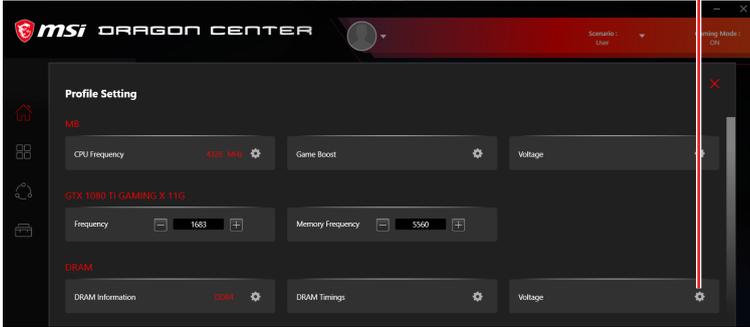
1. Go to Home > User Scenario, click Customize.
2. Click the **DRAM > DRAM Timings** setting .



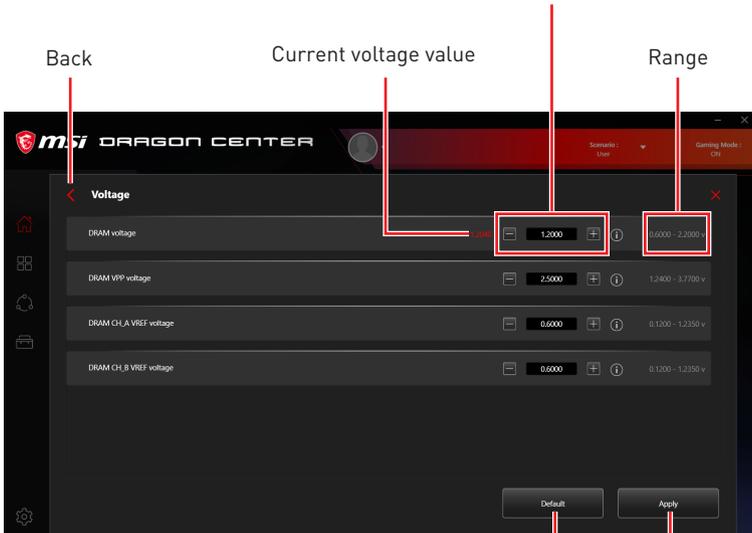
# How to Adjust the DRAM Voltage

1. Go to Home > User Scenario, click Customize.
2. Click the **DRAM > Voltage** setting .

Click here



Click  /  to adjust voltage value. You can also fill out the value in the input box.



Apply changes

Default values

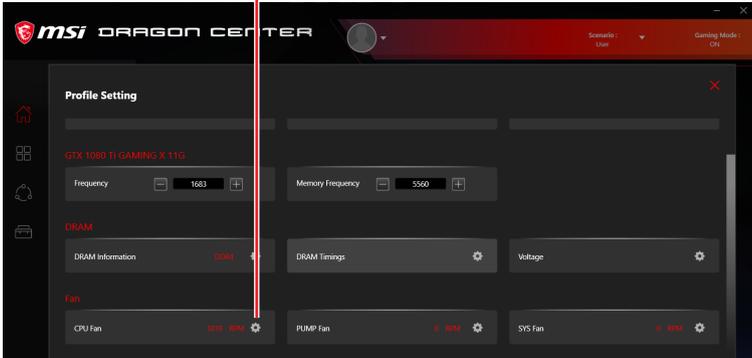
## Adjusting the Fan Speed

Fan speed control panel provides Smart Fan and Manual Fan settings. You can switch the control mode by clicking the Smart Fan or Manual Fan tabs on the Fan control panel.

### How to enter the fan speed control panel

1. Go to Home > User Scenario, click Customize.
2. Click the **Fan > CPU/ PUMP/ SYS fan setting** .

Click here



### How to use the Smart Fan control panel

The Smart Fan control panel contains 4 dots which allow you to drag and adjust the Smart Speed slopes. The fan speed will change along with the Smart Speed curve.

Fan Tune - click to automatically optimize the smart fan setting.



Current fan speed

The white dot will create strip chart in real time.

Default setting

# How to use the Manual Fan control panel

Fan Tune - click to automatically optimize the smart fan setting.



Current fan speed

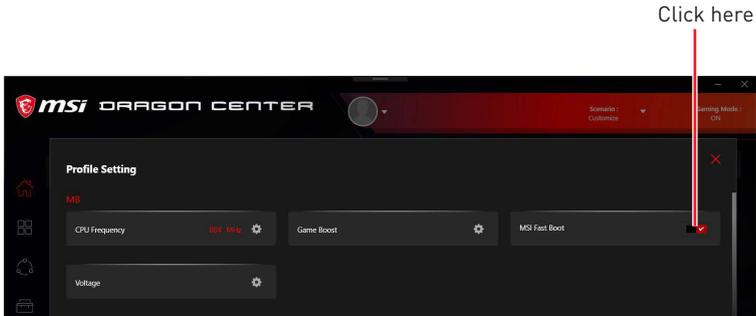
Default setting

Click the percentage to manually control the fan speed.

## How to Enable MSI Fast Boot

The MSI Fast Boot feature can decrease computer startup time.

1. Go to Home > User Scenario, click Customize.
2. Click the **MSI Fast Boot** to enable.



3. Click the Apply button to apply changes.
4. Reboot your computer, and MSI Fast Boot will be enabled.

# Monitor

Monitor feature provides a custom hardware monitor gadget to display the system status.

Select **Monitor** in the sub menu to enter Monitor page



## How to Use the Hardware Monitor

1. Go to Home > Monitor.
2. Enable the Hardware Monitor switch in the upper right corner, and the Hardware Monitor gadget will appear.

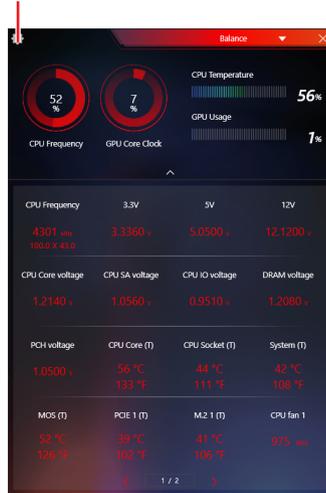
Click to enable the Hardware Monitor gadget



Click [↑] to free up memory

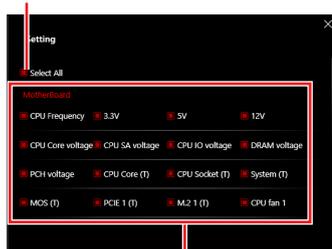
- Click the setting  icon in the top left corner of the Hardware Monitor gadget to open the monitoring item menu.

Click to open the monitoring item menu.



- Select the item you want to display in the gadget.

Select all items



Select the item you want to display in the gadget

# FROZR AI Cooling

FROZR AI Cooling feature will use AI technology to detect CPU & GPU temperatures and automatically adjust fan duty of system fans to a proper value.

## Supported Hardware:

MSI B550/ Z490/ X570/ Z590 series of motherboards

## How to enable FROZR AI Cooling

1. Go to Home > FROZR AI Cooling.
2. Select one among Performance/ Silent/ Manual Mode.
  - **Performance** - Boost extreme performance with higher fan speed.
  - **Silent** - Adjust fan speed for best cooling and silence.
  - **Manual** - Customize fan speed as desired.

Choose one mode from the drop-down menu

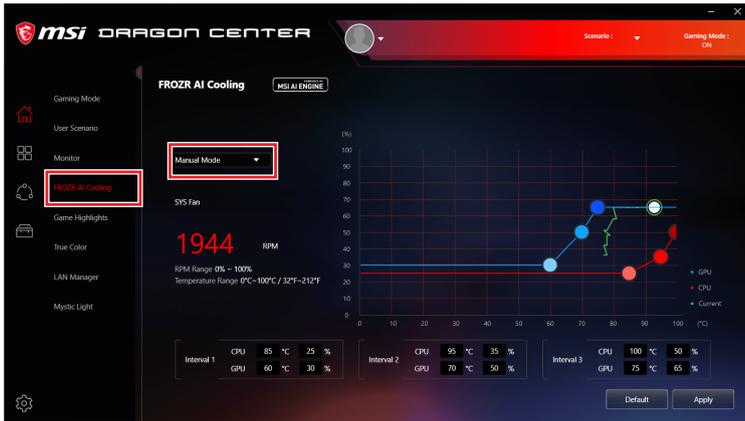


Current fan speed

Current fan speed curve

# Setting Manual Mode for FROZR AI Cooling

1. Go to Home > FROZR AI Cooling.
2. Select Manual Mode from the drop-down menu.



3. Fill out CPU&GPU temperatures and the corresponding fan duty for different three stages.



Blue curve - GPU fan duty  
Green curve - System fan duty  
Red curve - CPU fan duty

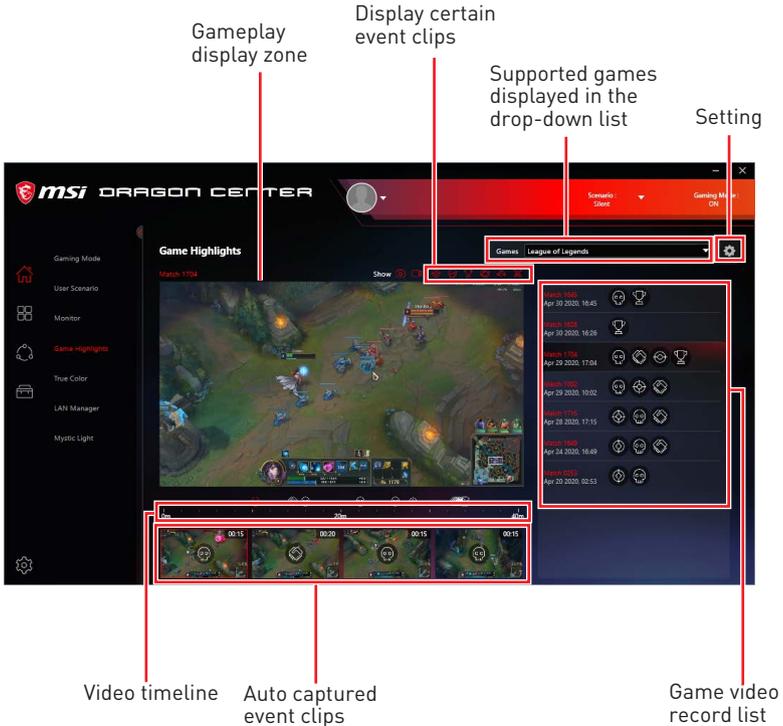


Click to apply for Default settings

Click to apply for Manual Mode settings

# Game Highlights

Game Highlights feature will automatically capture clips of amazing gameplay moments. It looks for certain events which occurs in games, and saves the captured videos in your local folder.



## Important

Game Highlights feature only supports certain series of Motherboards. In addition, this function is currently available in Fortnite, League of Legends, and Apex Legends.

# How to Share Game Highlights to Social Media

Game Highlights feature supports uploading videos directly to social media, such as YouTube, Twitter, and Discord.

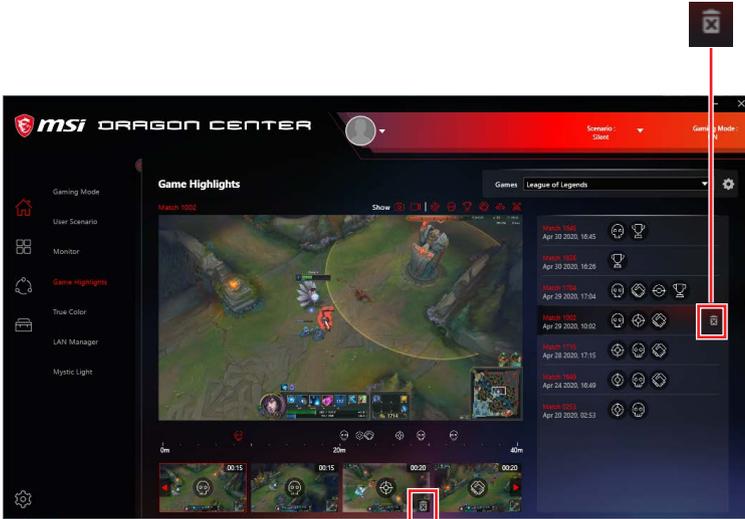


Options to open files in the folder and to directly share clips to social media

## How to Remove Game Highlights

You can choose to delete game highlight video which includes several clips or to remove one single game highlight clip from the whole game video.

Click here to remove the game highlight video

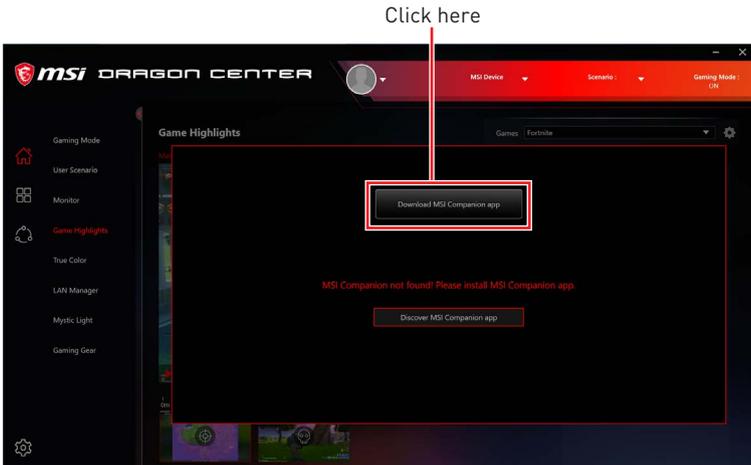


Click here to remove the game highlight clip

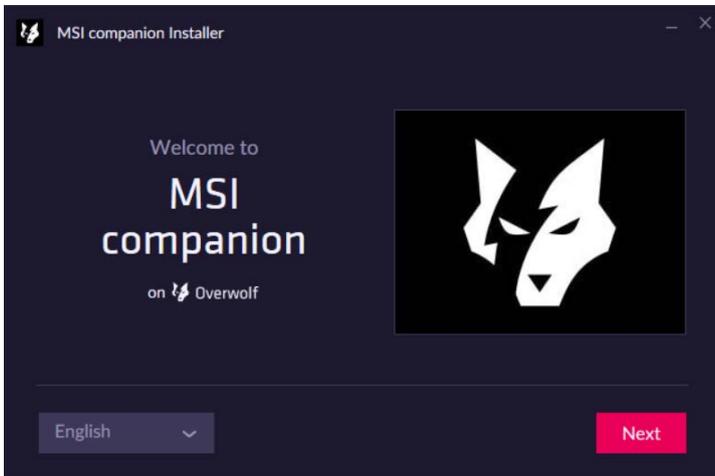
## Installing MSI Companion

Before you enable Game Highlights function, you should install MSI Companion first.

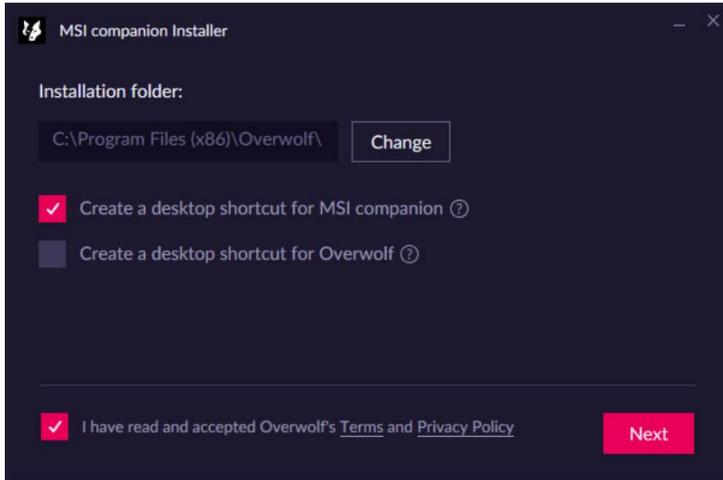
1. Go to Home > Game Highlights.
2. When a prompt window appears, click **Download MSI Companion app**.



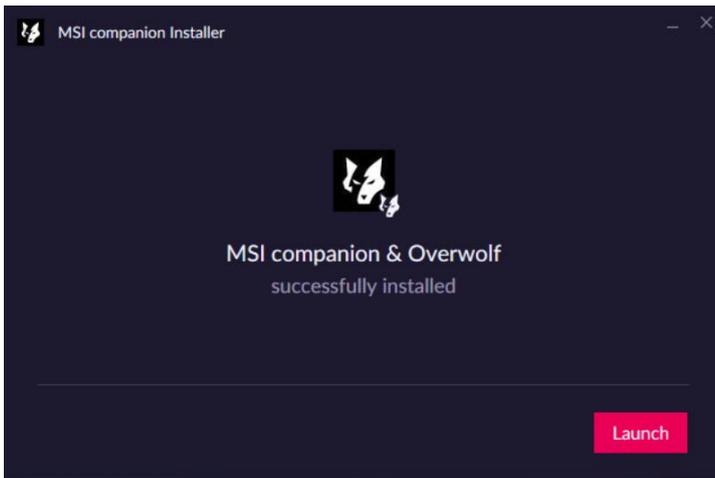
3. Execute **MSI Companion-Installer.exe**, and click **Next** to continue the process.



4. Select **I have read and accepted Overwolf's terms and Privacy Policy**.



5. After finishing MSI companion and Overwolf Installation, click **Launch** to activate MSI companion.



## How to Activate MSI Companion

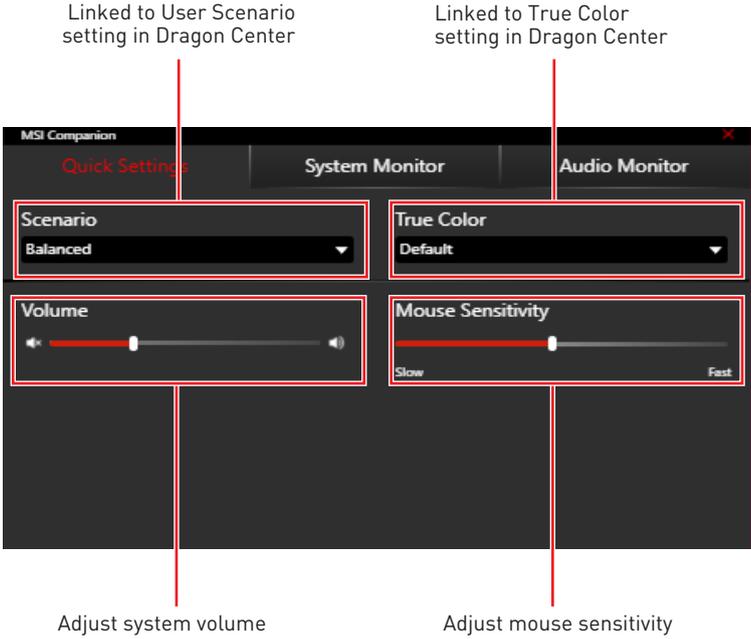
You can activate MSI companion by one of the following methods:

- Open Overwolf in System Tray, and click MSI Companion .
- Press ctrl + tab in games to open Overwolf, and click MSI Companion .
- Click MSI Companion  on the desktop.

## Setting MSI Companion

After activating MSI Companion app, you will see a pop-up window displaying detailed settings for Quick Settings, System Monitor, and Audio Monitor.

### On Quick Settings tab

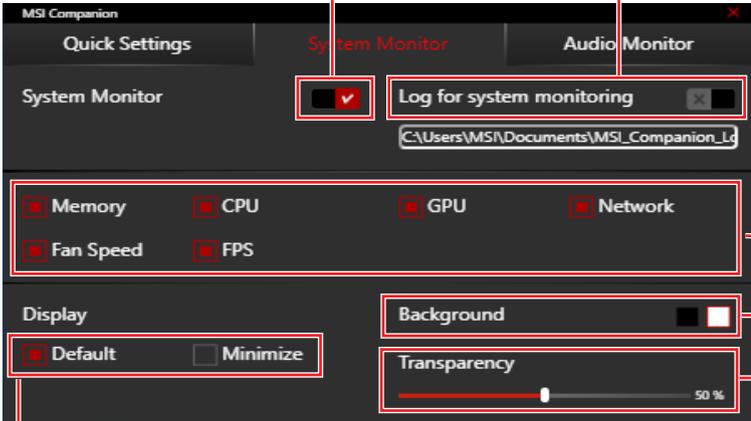


## On System Monitor tab

Select the system performance you want to display on the screen

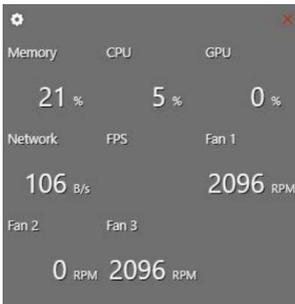
Turn on System Monitor to display system performance in games

Turn on to save log files for system monitoring



You can choose one from these two display ways, it will show an in-game overlay with the pattern you select.

- Default



- Minimize



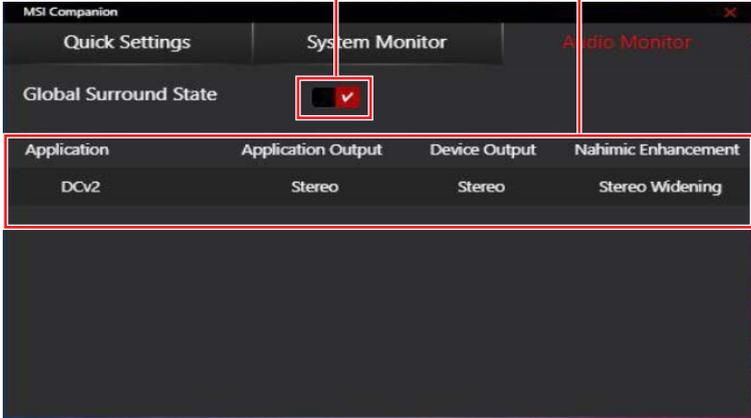
Adjust transparency for monitor background

Select black/ white monitor background

## On Audio Monitor tab

Turn on to display whether Nahimic surround function is enabled or not

Display audio information of identified applications with sounds



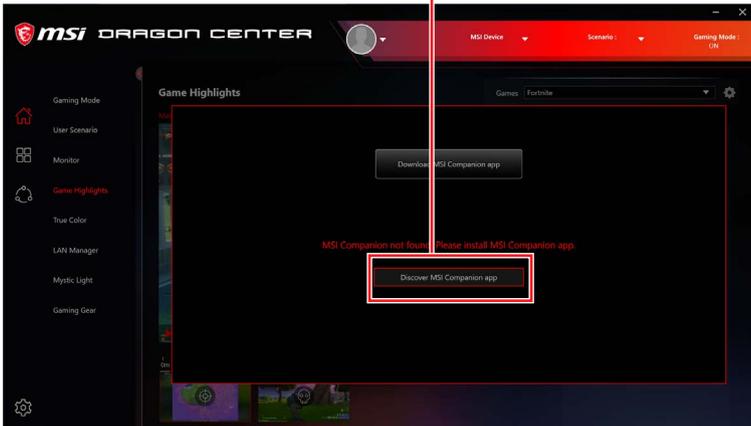
### Important

- Audio Monitor only works properly when Nahimic is installed.
- Audio formats among browsers are NOT supported by Audio Monitor.

## How to Discover MSI Companion

1. Go to Home > Game Highlights.
2. When a prompt window appears, click **Discover MSI Companion app**.

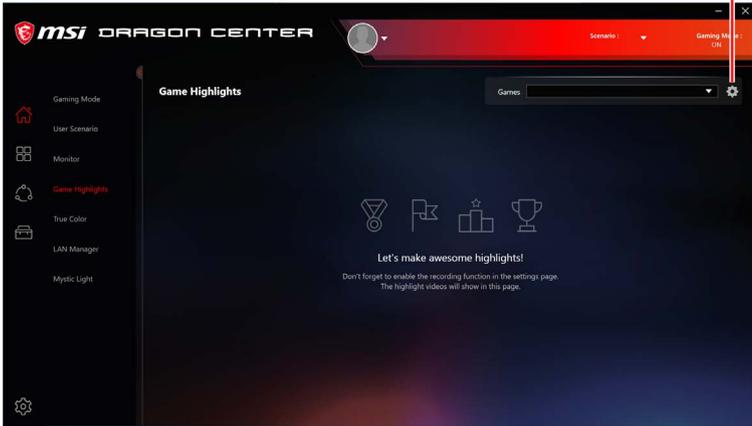
Click here



# Setting Game Highlights

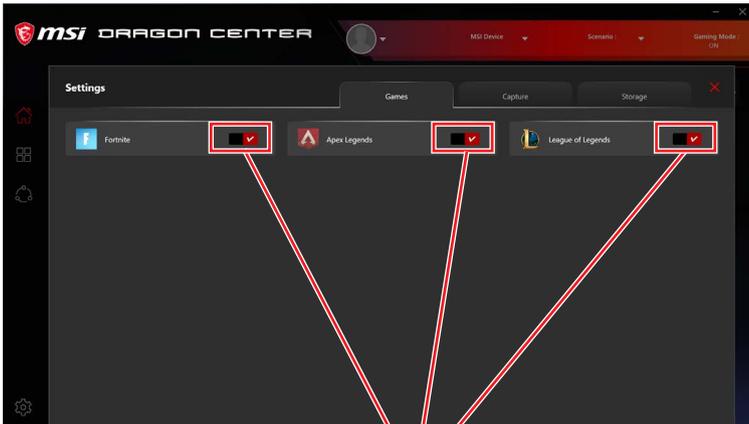
- Select Game Highlights in the sub menu, click setting .

Click here



- Adjust settings for Games, Capture, and Storage.

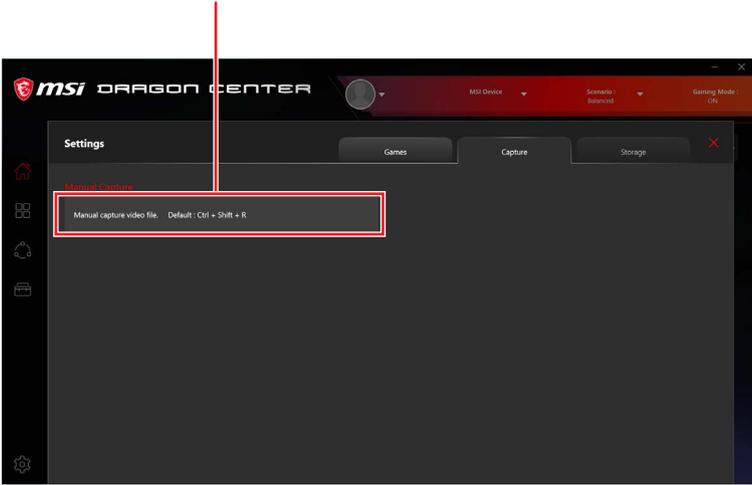
## On Games tab



On/Off Game Highlights

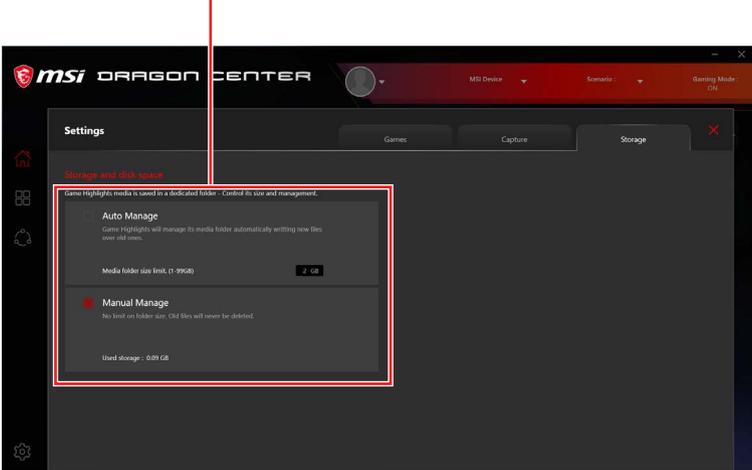
## On Capture tab

Adjust hotkey settings for manual capture



## On Storage tab

Select Auto Manage/ Manual Manage for file size and disk space settings

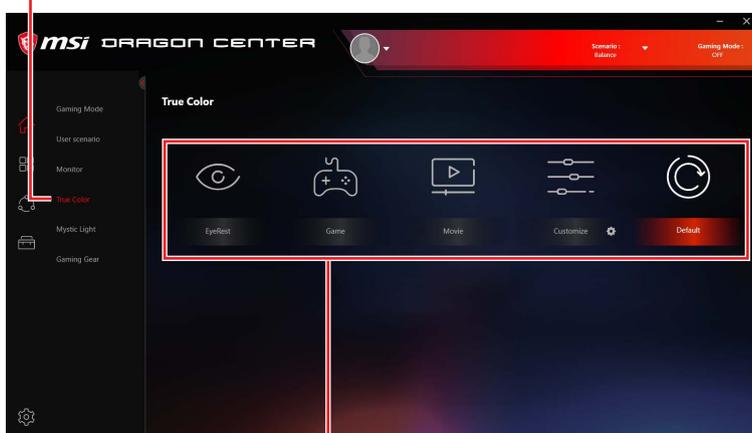


# True Color

With True Color function, you can adjust the best screen gamma, saturation, brightness and contrast settings for your eyes.

The True Color feature supports games in windowed mode.

Select **True Color** in the sub menu to enter True Color control panel



Select the quick screen color option

## True Color Preset Options

When you click the preset option, the screen settings will be immediately applied to your computer. The detailed options are as follows:

- **EyeRest** - reduces blue light of your computer screen for eye care.
- **Gaming** - enhances the contrast of the screen.
- **Movie** - enhances the dynamic contrast of the screen.
- **Customize** - allows you to adjust gamma, contrast and color balance of your computer screen. Please refer to the instructions on page 41.
- **Default** - uses the system default setting.

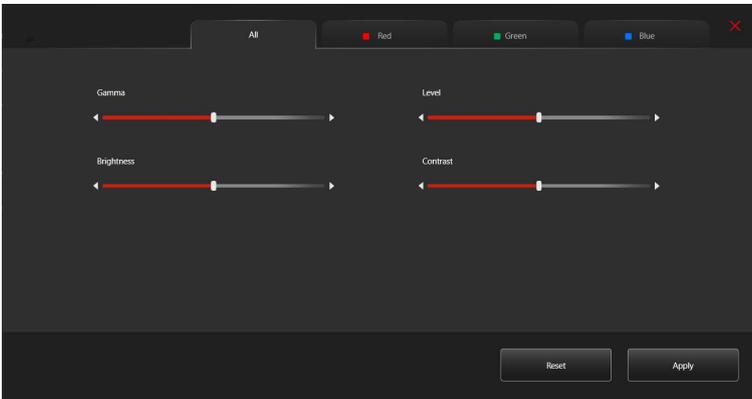
## How to customize screen color

The True Color control panel has a **Customize** feature that allows you to customize your own colors.

1. Click the setting  icon in the lower right corner of Customize icon.



2. Click and drag the sliders to adjust the Gamma, Level, Brightness and Contrast on Red, Green and Blue tabs.



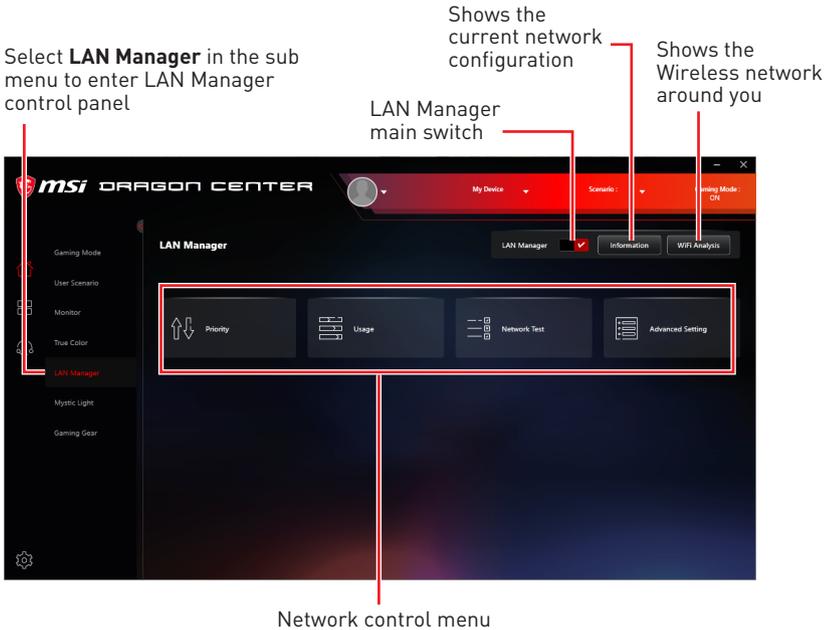
3. Click the Apply button to save the settings.

# LAN Manager

LAN Manager is applied to Windows 10 network traffic shaping. It keeps your internet speed stable and faster during heavy uploads/downloads and reduces the ping value of online games. If your motherboard has a Wi-Fi module, it can also provide virtual access point functionality for your mobile device for traffic shaping.

## To use LAN Manager:

1. Install the LAN driver.
2. Connect your computer to the internet.
3. Go to Home > LAN Manager.



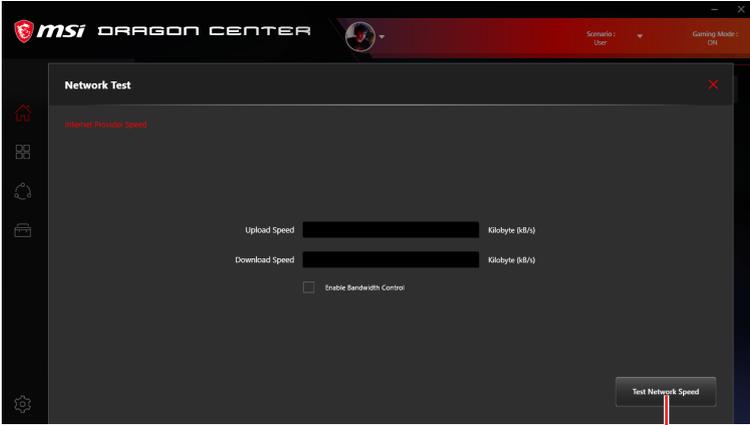
## Network Control Menu

Other relevant settings on the LAN Manager Control Panel are as follows:

- **Priority** - customizes application network bandwidth priorities.
- **Usage** - displays the application network usage status.
- **Network Test** - allows you to set up bandwidth control.
- **Advanced Setting** - allows you to expand RWIN to accelerate download speed. You can also block IP address and set up virtual access point.

# Setting Network Speed

1. Select the **Network Test** control panel.



2. Click **Test Network Speed**.
3. cFos Speed Test web page will be opened.



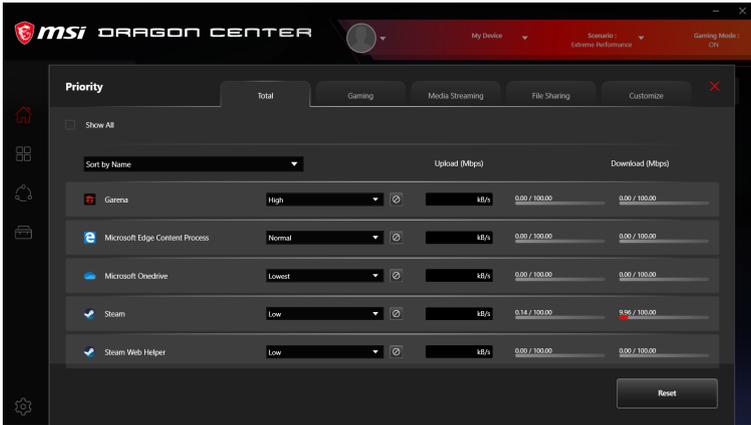
4. Click **Start tx test** to test **Upload speed**, and click **Start rx test** to test **Download speed**.
5. Fill in the speed test results in the **Upload speed** and **Download speed** input boxes.
6. Check the **Enable Bandwidth Control** checkbox.



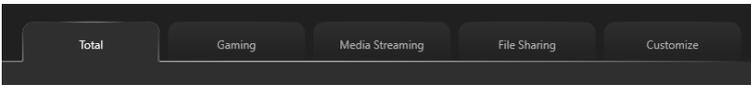
## Customizing Application Priorities

The Priority control panel displays what application is currently using network bandwidth.

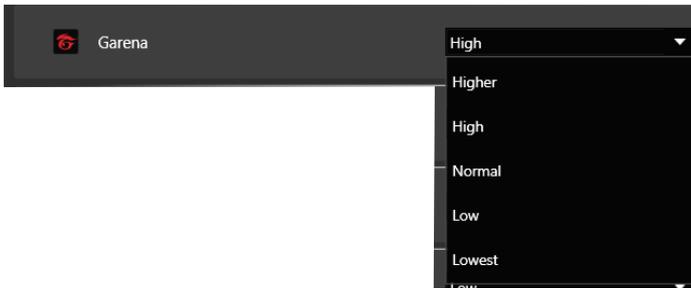
1. Test and set the network speed as described previously.
2. Select the **Priority** control panel.



3. Use the category bar to filter the displayed applications categories.



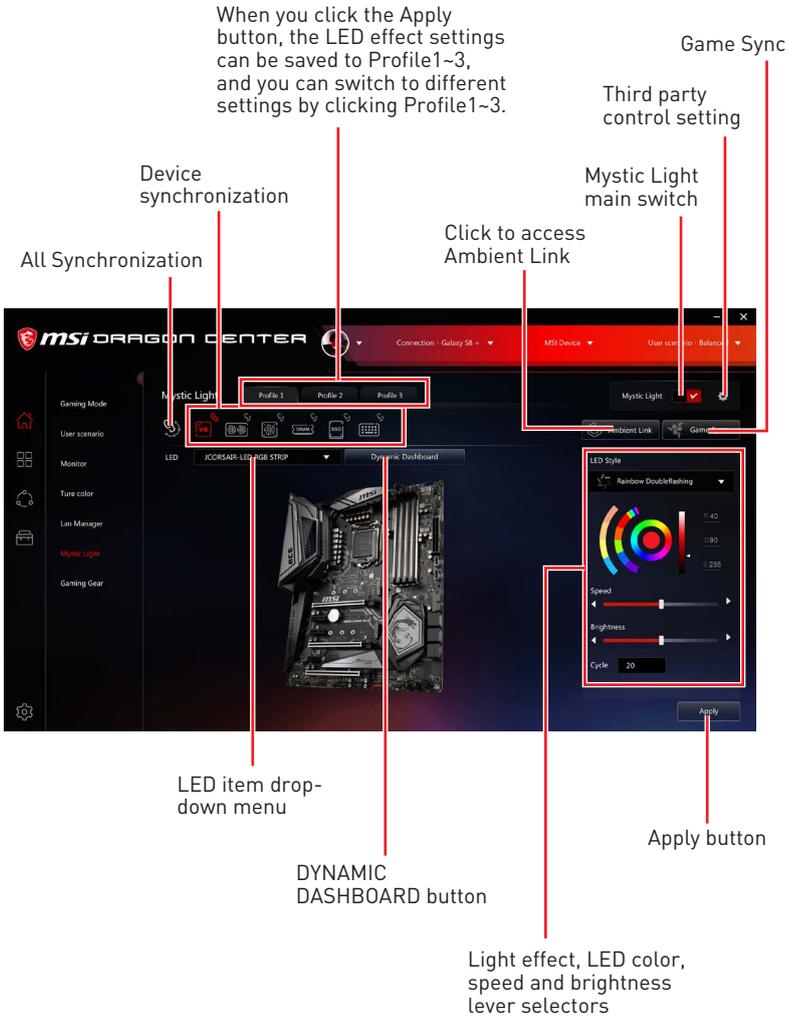
4. Click the drop-down menu next to the application name to select the priority of the application.



*Note: To stop some applications from using bandwidth, you can click  to block the application.*

# Mystic Light

Mystic Light feature allows you to control LED light effects of MSI & partner products. For some earlier products, you can go to product download page to download the applicable LED control software.



- **Device synchronization** - In this section, you may synchronize LED light effect to your devices.



- **All synchronization** - Click the big chain icon on the left side of all the devices.



Click the big chain icon

- **To synchronize devices** - Click the chain icon above device icon. When the chain icon turns red, it indicates that the device has synchronized LED effect settings with other devices.



**Chain icon** - indicates the device has been synchronized.



**Broken-chain icon** - indicates the device is not synchronized.

- **Individual** - You can also change settings for one single device. To do that, click the chain icon and the color will turn gray as below.



**Device icon** - click it to change LED effect setting for this device. When the icon turns red, it indicates the device you're currently setting.

- **LED item drop-down menu** - Click to select the LED item on the device. The LED effects vary depending on your LED item selection.



- **Light effect drop-down menu**



Click it to select LED light effects. Please note that the options about light effects would be more or less depending on the devices you have. It will only list the light effects which are available for all applicable devices.

- **LED Color selector** - In this section, you may select the color for one single light effect (Stack, Breathing, Flashing etc.).

The outer arc is a custom color picker and the inner arc is the default color picker that cannot be changed. You can simply change the LED color by clicking on the color on the outer or inner arc. To store a custom color, click one of the color slots on the outer arc to store the color of your choice.

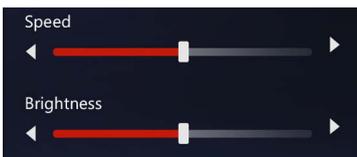


You can specify a color by editing an RGB (red, green, blue) color value between 0 and 255.

Drag the brightness slider up to increase brightness or drag down to decrease brightness.

Use the Hue Circle to choose the color you want. The color you choose will be displayed on the center circle.

- **Effect speed and brightness level**



Drag the sliders to adjust the LED light effect switching speed and light brightness.

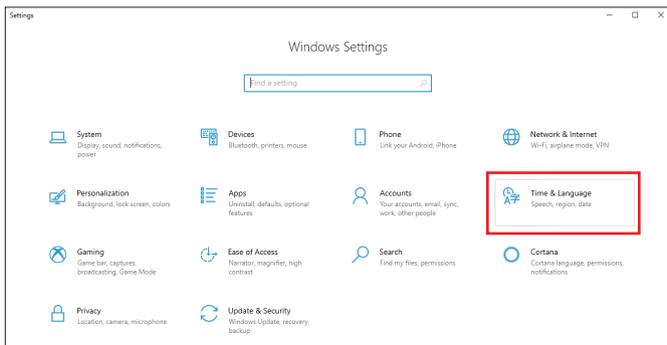
*Please note that these functions will only be available if your device supports it.*

# Voice Command

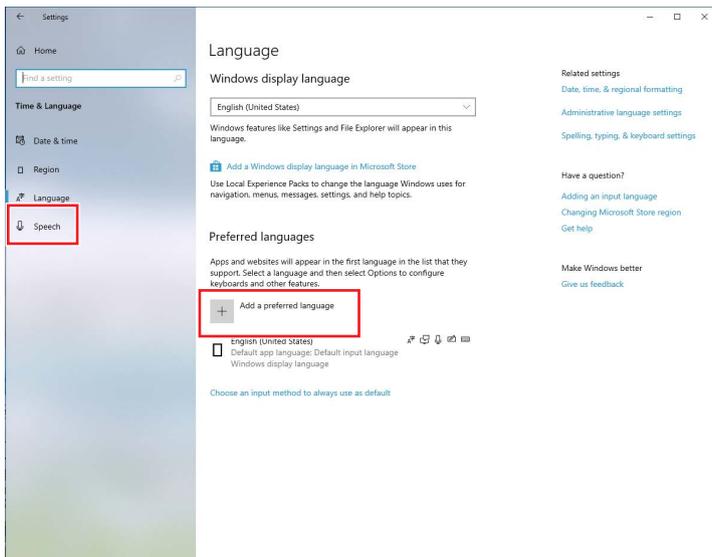
Mystic Light allows you to use your voice to change LED effects.

To start Voice Command, you need to install Windows 10 Speech Voices.

1. Go to Windows Settings, select **Time & Language**.



2. Select **Add a preferred language**, then add **English** and the voice packages.
3. Change your default speech options to **English** by selecting **Speech**.



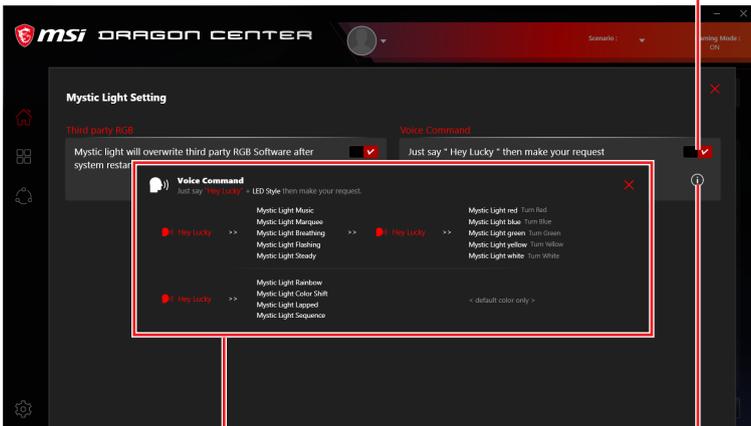
## How to Control Mystic Light via Voice Command

Go to Home > Mystic Light, click **setting** in the upper right corner. Enable Voice Command and then you can change the LED style by saying **Hey Lucky**.

Click here



Enable Voice Command



A list of Hey Lucky commands

Click to open the list of Hey Lucky commands

### **Important**

If the **Voice Command** option does not appear, try uninstalling the **MSI SDK** and **Dragon Center**. Then reinstall **Dragon Center** again.

## Ambient Link

With the Ambient Link feature, it will provide visual color feedback on Philips Hue and Nanoleaf depending on what is happening in games. To use Ambient Link, you need to follow the instructions below to complete the link setup.

### Supported Motherboards

- MEG Z390 GODLIKE
- MEG Z390 ACE
- MPG Z390 GAMING PRO CARBON AC
- MPG Z390 GAMING EDGE AC
- Z390I CORSAIR
- MPG Z390M GAMING EDGE AC
- MPG X570 GAMING PRO CARBON WIFI
- MPG Z390I GAMING EDGE AC
- MEG X570 GODLIKE
- MEG X570 ACE
- MEG X570 UNIFY
- PRESTIGE X570 CREATION
- MPG X570 GAMING EDGE WIFI
- Creator TRX40
- MEG Z490 GODLIKE
- MEG Z490 ACE
- MEG Z490 UNIFY
- MPG Z490 GAMING CARBON WIFI
- MPG Z490M GAMING EDGE WIFI
- MEG Z490I UNIFY
- MPG Z490 GAMING EDGE WIFI
- MAG B460M MORTAR WIFI
- MAG X570 TOMAHAWK WIFI
- MPG B460I GAMING EDGE WIFI
- B450M BAZOOKA MAX WIFI
- MPG B550 GAMING CARBON WIFI
- MPG B550 GAMING EDGE WIFI
- MPG B550I GAMING EDGE WIFI
- MAG B550M MORTAR WIFI

### Network Requirements

- The router is broadcasting a 2.4GHz network.
- The Wi-Fi network is using WPA/WPA2 security.
- The router is configured for any of the Wi-Fi modes a/b/g/n.

### Philips Hue Setup (optional)

1. Plug in your Hue bridge and it will automatically power up.
2. Connect it to the router LAN port.
3. Wait for the two lights to come on and you are good to go. (Left is power light and center is local network)

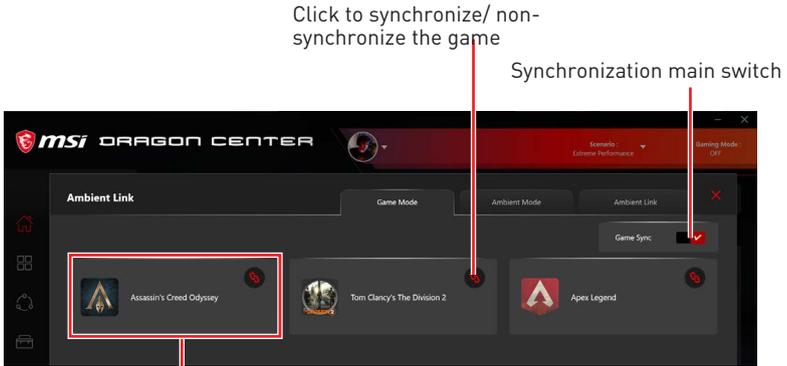
### Nanoleaf Setup (optional)

- The router is compatible with Bonjour (mDNS).

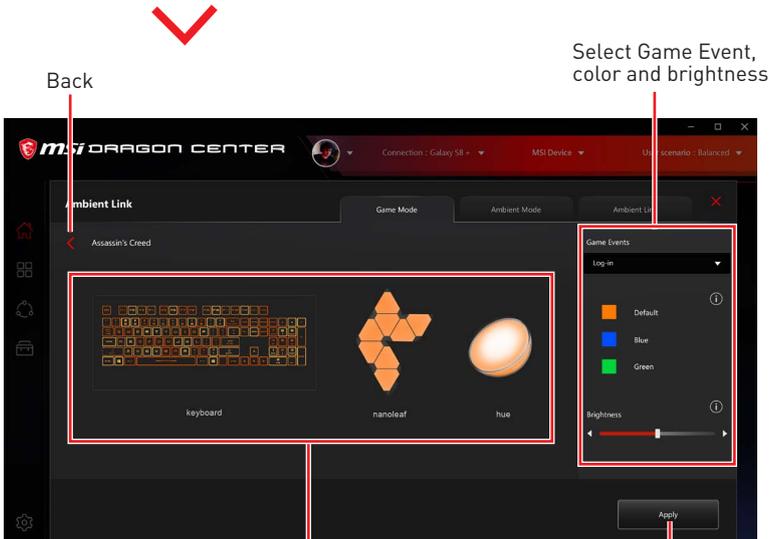
## Ambient Link Control Panel

**Game Mode** and **Ambient Mode** can only be activated one at a time in the Ambient Link control panel.

- **Game Mode tab**



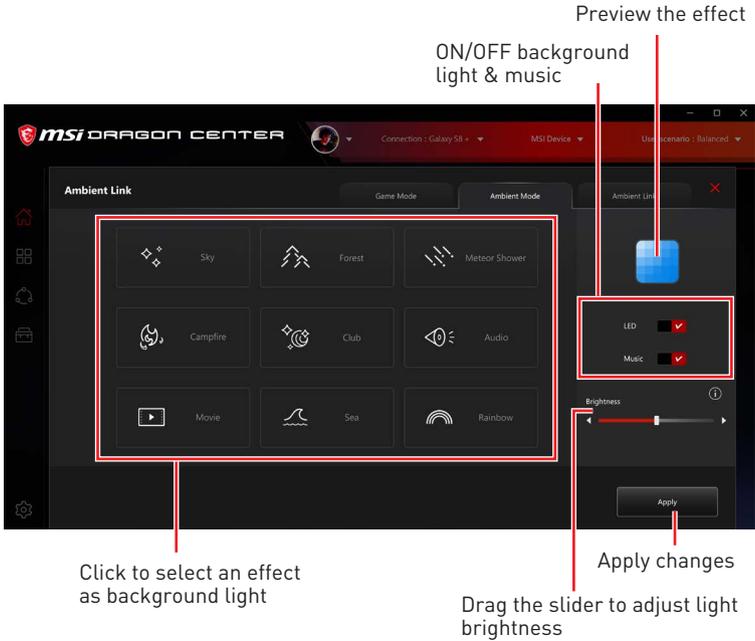
Click to access the game control panel



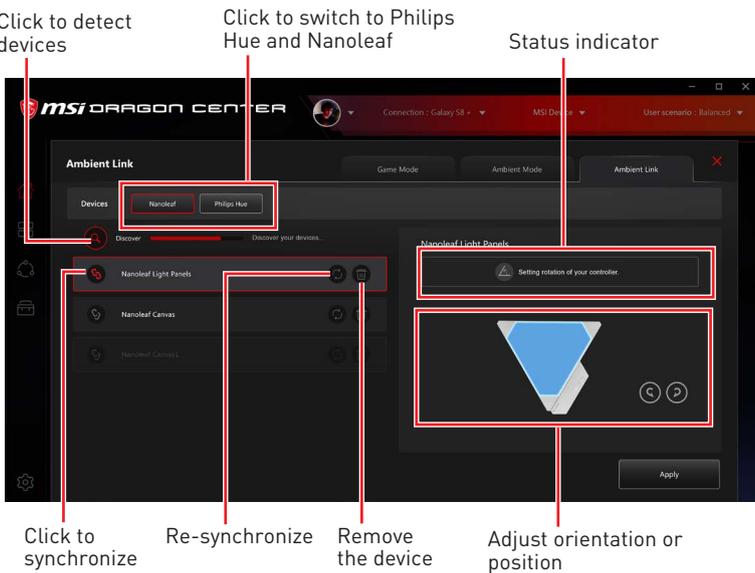
Preview the effect

Apply changes

• Ambient Mode tab



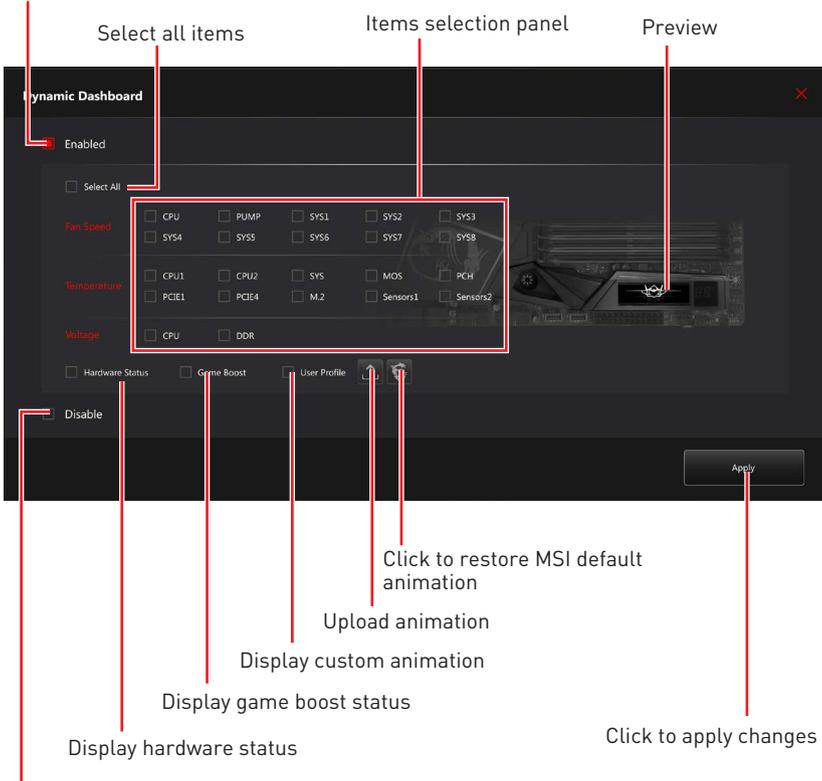
• Ambient Link tab



## DYNAMIC DASHBOARD Control Panel (optional)

Click DYNAMIC DASHBOARD button to open the DYNAMIC DASHBOARD control panel.

Enabled DYNAMIC DASHBOARD



Disabled DYNAMIC DASHBOARD

### Selecting Display Items

1. Select **Enabled** in the upper left corner of the control panel.
2. Select items you want to show on the DYNAMIC DASHBOARD.
3. Click **Apply** to apply your changes.

## Uploading Custom Animation

Click the Upload  icon and select a .gif animation file.

### .GIF File Restriction

Dimensions: 256 x 64

DPI: 72

Size: max 128KB

256px

64px



## Restoring MSI Default Animation

Click the Dragon  icon to restore the MSI default animation.

## Fan Speed/ Temperature/ Voltage State

### Available Items:

Fan Speed : CPU fan / Water pump fan / System fan speed

Temperature : CPU / System / MOS / PCH / PCIe / M.2 / Sensors temperature

Voltage : CPU / Memory voltage

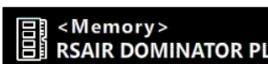


## Hardware Information

### CPU Information



### Memory Information



### Graphics Card Information



## GAME BOOST State



When you use the GAME BOOST Knob, DYNAMIC DASHBOARD will display the CPU frequency information.

Stage 0



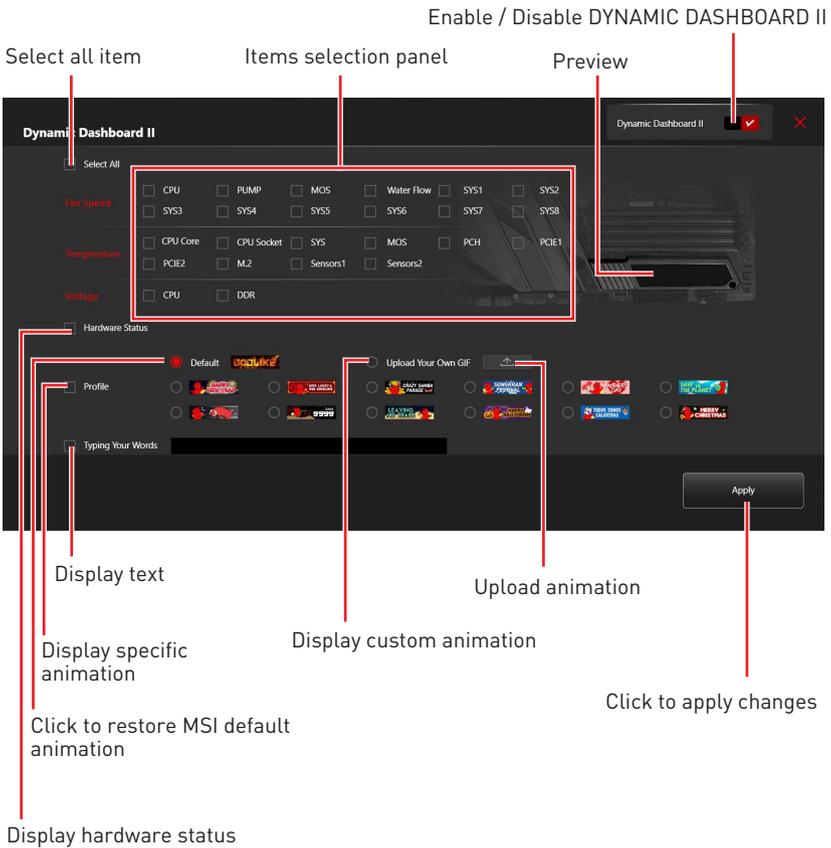
Stage 1~11



Game Boost is only available on K CPUs and speeds may vary based on CPU model.

## DYNAMIC DASHBOARD II Control Panel (optional)

Click DYNAMIC DASHBOARD button to open the DYNAMIC DASHBOARD control panel.



### Selecting Display Items

1. Click the switch in the upper right corner of the control panel to enable it.
2. Select items you want to show on the DYNAMIC DASHBOARD II.
3. Click **Apply** to apply your changes.

## Uploading Custom Animation

Click the Upload  icon and select a .gif animation file.

### .GIF File Restriction

Dimensions: 176 x 48

DPI: 72~93

Size: max 1024KB



## Fan Speed/ Temperature/ Voltage State

### Available Items:

Fan Speed : CPU fan / Water pump fan / System fan speed

Temperature : CPU / System / MOS / PCH / PCIe / M.2 / Sensors temperature

Voltage : CPU / Memory voltage

### Fan Speed



### Temperature



### Voltage



## Hardware Information

### CPU Information



### Memory Information



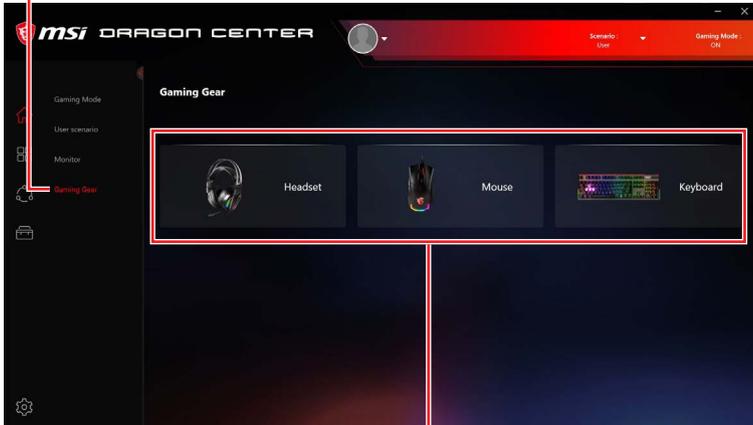
### Graphics Card Information



# Gaming Gear

This panel allows you to control MSI's gaming gear and supported third-party devices.

Select **Gaming Gear** in the sub menu to enter Gaming Gear menu



Supported devices will be displayed here. Click to enter the control panel of the device.

## Gaming Knob (optional)

Certain series of desktops have the gaming knob for controlling system settings and monitoring the system status.



### Rotate:

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

### Short Press (OK):

- entering submenus
- confirming a selection or setting

### Long Press (Exit):

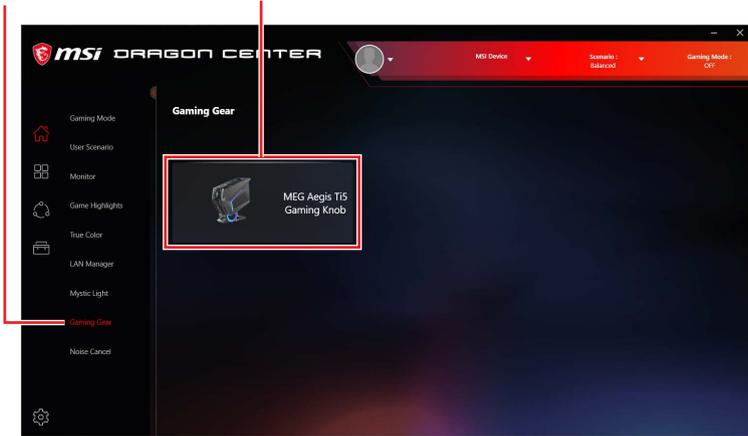
- return upper menu
- exit monitor function

## Setting Gaming Knob

Go to Home > Gaming Gear > Select **Gaming Knob**.

Select **Gaming Gear** in the sub menu

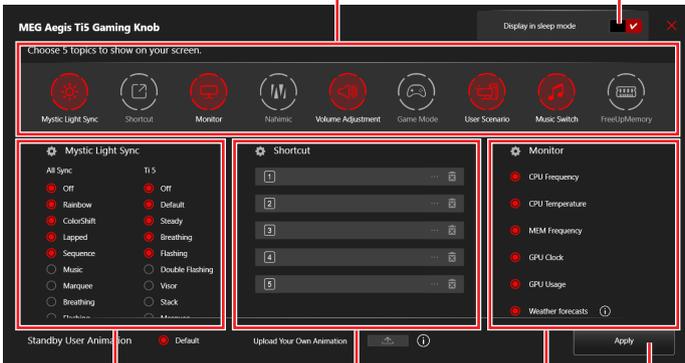
Select **Gaming Knob**



## Gaming Knob Control Panel

Choose 5 topics to show on the Gaming Knob screen

Allow Standby animation display in sleep mode



Mystic Light items selection panel

Shortcut items selection panel

Monitor items selection panel

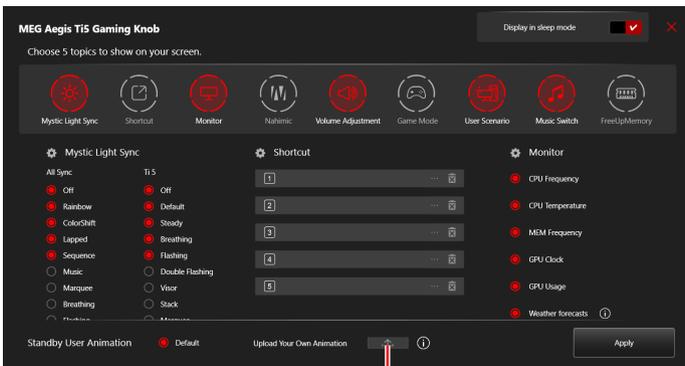
Click to apply changes

## Topics

- **Mystic Light** - Switch Mystic Light effect by Gaming Knob.
- **Shortcut** - Fast execution customize program (.exe file) by Gaming Knob.
- **Monitor** - Show Display Hardware information on Gaming Knob Screen.
  - Note 1: Weather forecasts function need an internet connection and allow location service.
  - Note 2. When execution monitor function, standby animation will not display.
- **Nahimic** - Switch Nahimic's profiles by Gaming Knob.
- **Volume Adjustment** - Easy to adjust OS volume by Gaming Knob.
  - Note: Volume adjustment is the default idle function.
- **Game Mode** - Switch Game mode on/off by Gaming Knob.
- **User Scenario** - Switch User Scenario by Gaming Knob.
- **Music Switch** - Adjust Media player function (Play/ Pause/ Next track/ Previous track) by Gaming Knob.
- **FreeUpMemory** - Execute Free Up Memory function by Gaming Knob.

## Uploading Your Own Animation

Click the Upload  icon and select .jpg animation files.



Click to upload .jpg animation files

### .JPG File Restriction

Dimensions: 240 x 240

Animation speed: 24 FPS

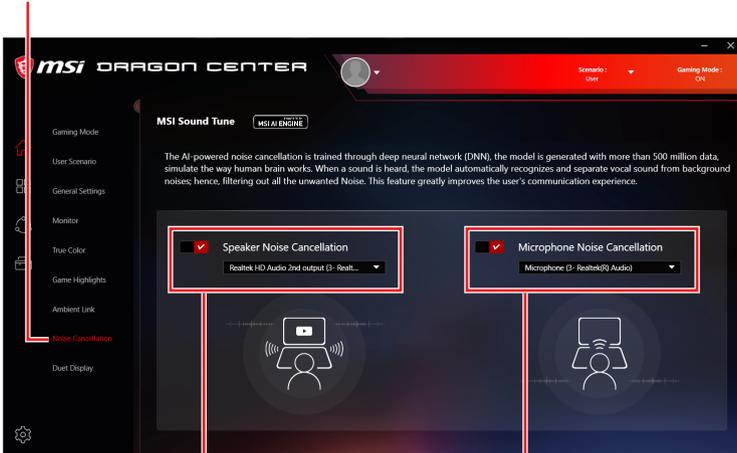
Size: max 3.0 MB



# Noise Cancellation (optional)

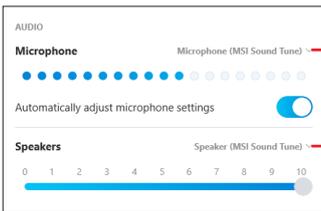
The AI-powered noise cancellation is trained through a deep neural network (DNN), the model is generated with more than 500 million data, simulates the way the human brain works. When a sound is heard, the model automatically recognizes and separates the vocal sound from background noises. Hence, filtering out all the unwanted noise. This feature greatly improves the users' communication experience.

Select **Noise Cancellation** in the sub menu to enter MSI Sound Tune panel



Enable/ Disable Speaker Noise Cancellation.

Enable/ Disable Microphone Noise Cancellation.



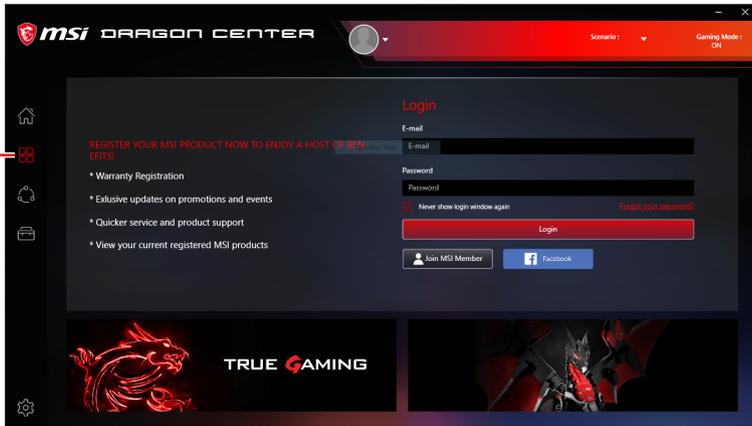
Select **Microphone (MSI Sound Tune)** in the communication software.

Select **Speaker (MSI Sound Tune)** in the communication software.

# Product Registration

Register your MSI product to get exclusive updates, quicker service and product support.

Select **My Device** in the sub menu to register your product



Login to your MSI account on this My Devices tab. If you don't have an MSI account, please click the **Join MSI Member** button or use Facebook, Google Plus to login.



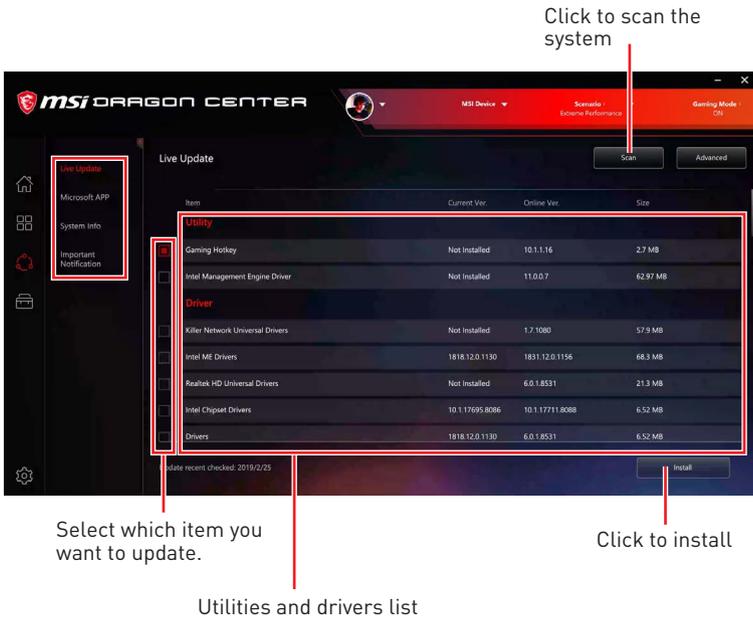
Click the **Product Register** button and fill in the product registration form.

# Live Update

Live Update feature allows you to scan system and download the latest drivers, BIOS and utilities. With Live Update, you don't need to search the drivers on websites, and don't need to know the models of motherboard and graphics cards. Live Update will download the appropriate drivers automatically.

## To use Live Update:

1. Connect your computer to the internet.
2. Go to Support > Live Update.



# System Info

The System Info provides information about your computer drivers, BIOS and utilities versions.

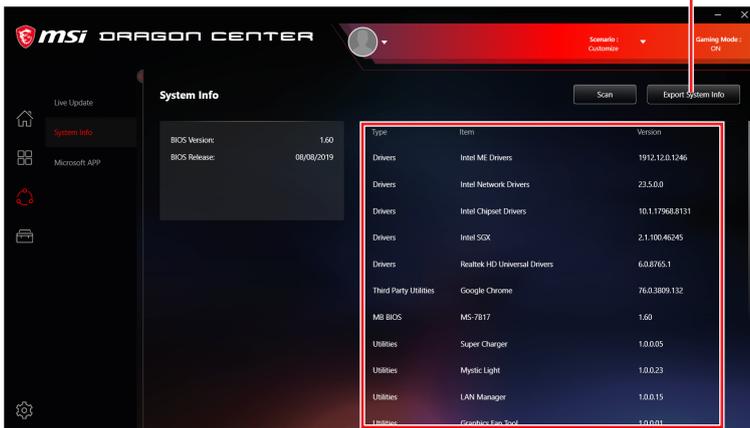
## To open System Info:

1. Go to Support > System Info.

## To export system information:

1. Go to Support > System Info.
2. Click **Export System Info** button in the upper right corner.
3. Browse to the location where you want to save the new text file, and then click Save.

Click to export system information to a text file.



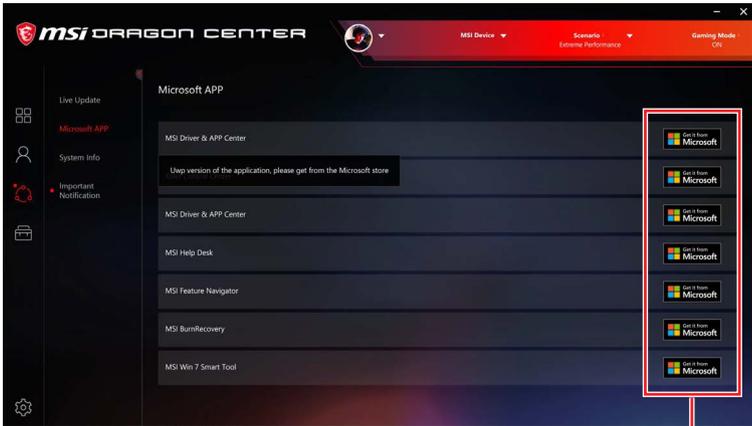
Shows drivers, BIOS and utilities versions.

# Microsoft APP

The Microsoft App feature detects installed drivers and displays a relative Microsoft application download links.

## To install Microsoft App:

1. Go to Support > Microsoft App.
2. Click the Get it from Microsoft icon  on the right side of the item.
3. Download and install the application from Microsoft Store.

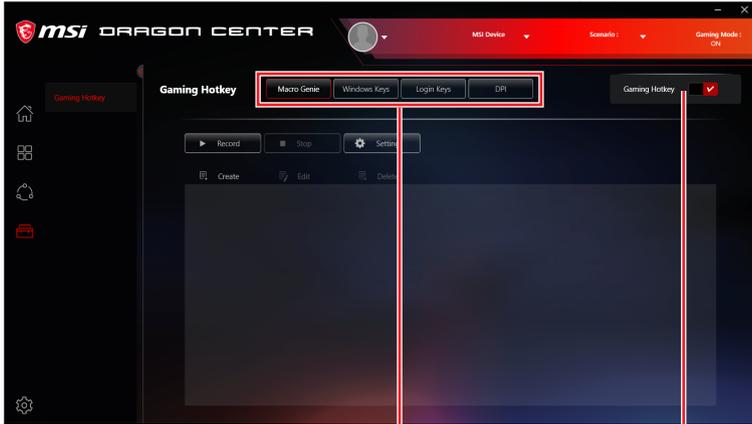


Click to install

# Gaming Hotkey (Install by Live Update)

Gaming Hotkey provides instant control of the system through the hotkeys defined by users themselves.

## Tools > Gaming Hotkey



On/Off Gaming Hotkey

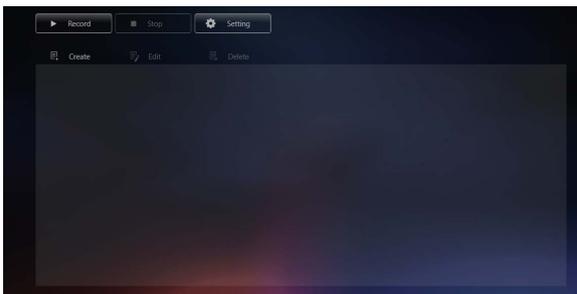
Click to select the Macro Genie, Windows Keys, Login Keys and DPI sub-menu.

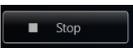
## Important

Gaming Hotkey doesn't support PRO Series Motherboards.

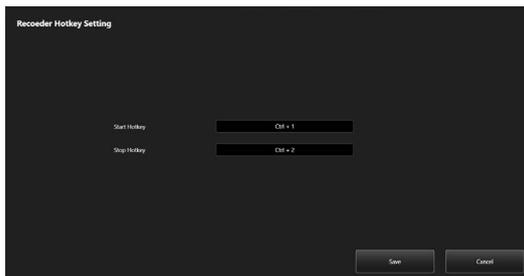
## Recording a Macro

1. Enter **Macro Genie** sub-menu.

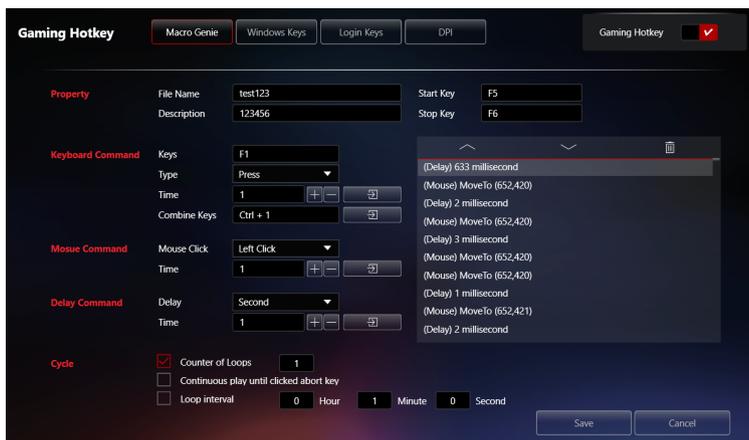


2. Click Record  and then perform the actions to record the macro.
3. To stop recording the macro, click Stop .

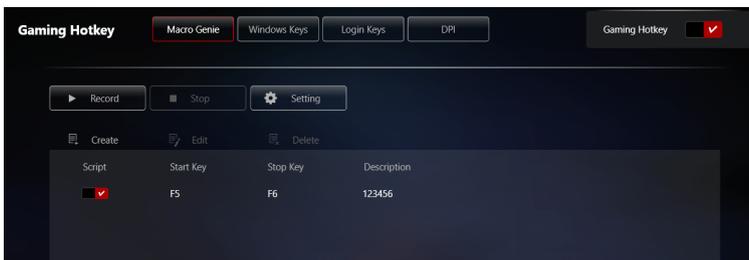
Note: You can also use hotkeys to start/ stop recording. Click Setting to open the Recorder Hotkey Setting panel. Then click the Start Hotkey/ Stop Hotkey and press the key you want to assign to an action.



- In the Edit panel, enter a file name for your new macro into the File Name text box. (Following section will describe how to edit macro)

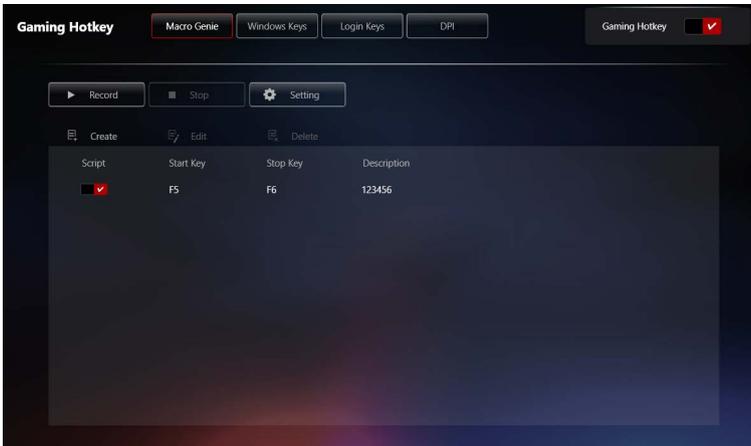


- Fill in the Description text box.
- Click the Start Key/ Stop Key and press the key you want to assign.
- Click Save. The Macro will be listed in the Macro Genie submenu.

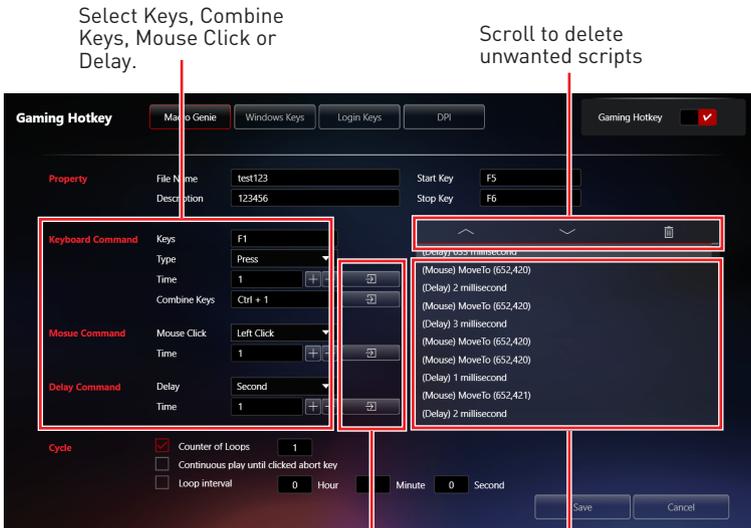


# Creating and Editing a Macro

1. Enter **Macro Genie** sub-menu.



2. Click **Create** to create a new macro, or click **Edit** to edit the selected macro.
3. Select Keys, Combine Keys, Mouse Click or Delay.



4. Click **+** next to the Time box to increase/ decrease the number of times to import into the macro script.
5. Click **Import** import command selection into the macro script.

6. Set the Cycle property.
  - **Counter of Loop** - Execute script the number of times specified by a certain value.
  - **Continuous play until clicked abort key** - Execute script until you press Stop Key.
  - **Loop interval** - Execute the script at specified time intervals.
7. In the Edit panel, enter a file name for your new macro into the File Name text box.
8. Fill in the Description text box.
9. Click Save . The Macro will be listed in the Macro Genie submenu.

## Enabling and Disabling the Macro

Toggle the **Script** button to blue to enable the macro.

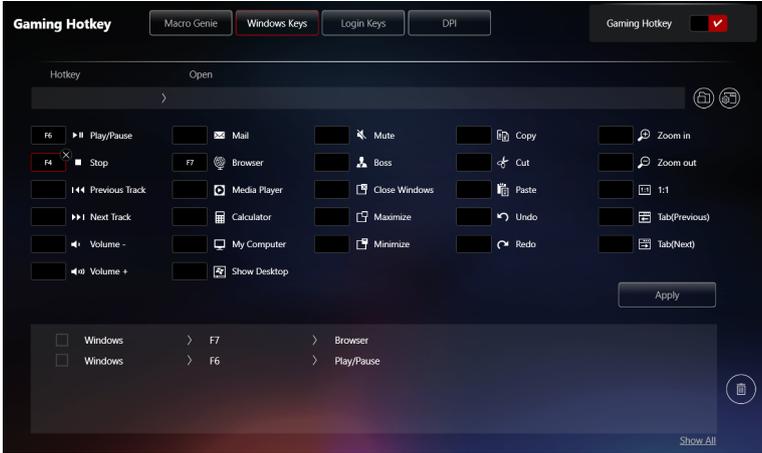
Script	Start Key	Stop Key	Description
	F5	F6	123456

Toggle the **Script** button to gray to disable the macro.

Script	Start Key	Stop Key	Description
	F5	F6	123456

# Making Hotkeys for Windows OS

1. Enter **Windows Keys** sub-menu.



2. Click the input box next to the action.
3. Press the key you want to assign to the action. For example, press F4 for Stop as shown below. To cancel it, click .



4. Click  to apply changes.

## Assign Hotkey to open folder or file



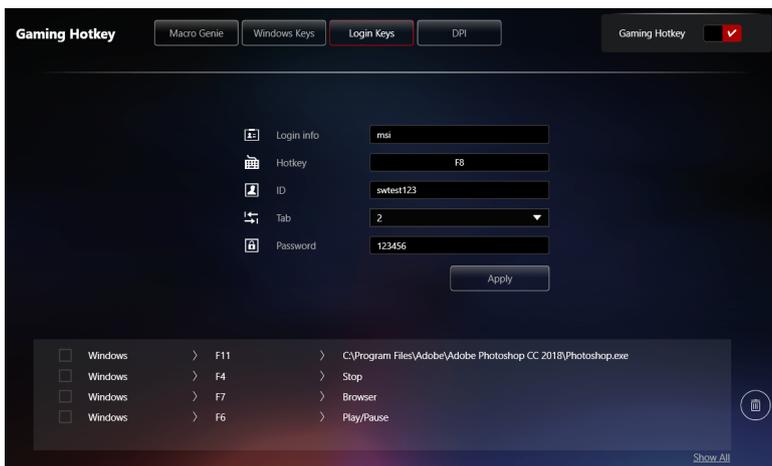
Click to assign the hotkey

Click to select folder / file

## Making Hotkeys for Login

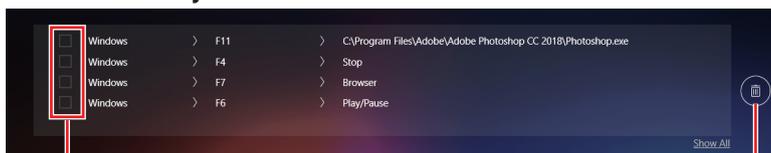
You can create Hotkeys to automatically fill in the login page.

1. Enter **Login Keys** sub-menu.



2. Fill in these input boxes.
  - **Login info** - the name of the Hotkey.
  - **Hotkey** - assign a Hotkey.
  - **ID** - the text for fill in the login ID.
  - **Tab** - select the number of times to press the Tab key.
  - **Password** - the text for fill in the password.
3. Click Apply  to apply changes.

## Delete the Hotkeys



Select Hotkeys you want to delete

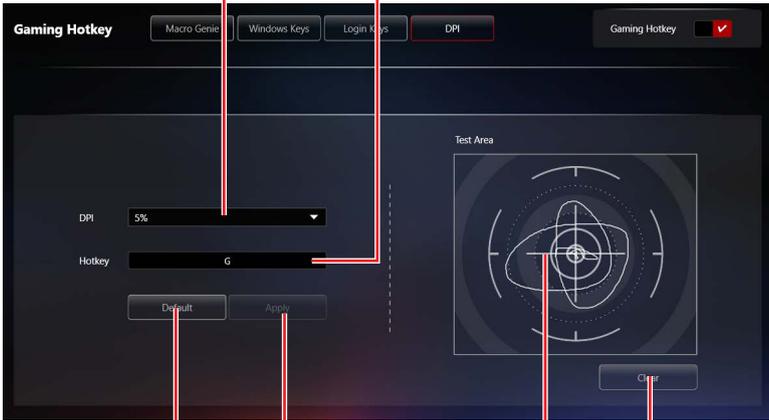
Click to delete selected Hotkeys

## Setting Hotkey for Mouse DPI

You can specify a hotkey to change the mouse's DPI.

Select the DPI percentage in the drop-down menu. The higher your DPI is, the more sensitive your mouse is.

Set the hotkey to change the DPI.



Default Button - reverts to the default DPI setting.

Use the mouse to draw on this test area to test the DPI settings.

Apply Button - applies changes.

Clear Button - clears drawing on the test area.

# Smart Tool (Install by Live Update)

## Tools > Smart Tool

Smart Tool is a tool that can help you to create your Windows installation USB flash drive, and it can also create a super RAID.

### Main menu

The main menu allows you to choose Smart Tool or SUPER RAID.

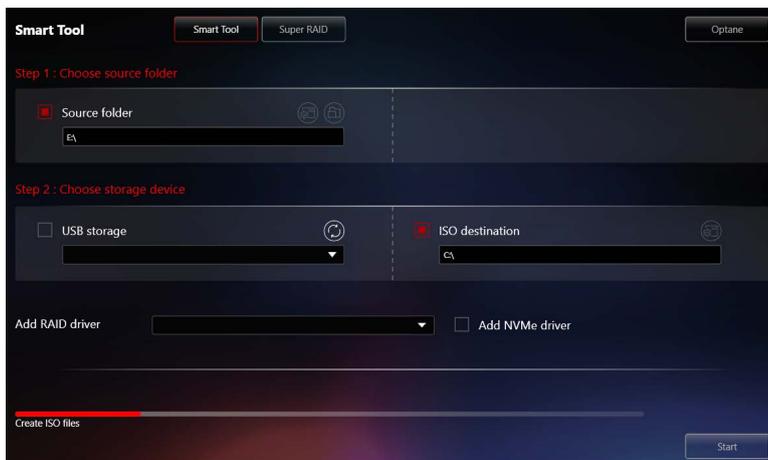


### Important

The Super RAID button is only available when your system is equipped with at least 3 hard-disk drives (1 system disk and 2 data disks).

## How to Create a USB Flash Drive Installer for Windows

Before you can create your Windows installation USB flash drive, you'll need to have your Windows Installation Disc or ISO file, and also have a minimum of an 8GB USB flash drive to create your installer. If the USB drive is already being used, be sure to back up files. This process might erase the important data on the USB drive.



1. Click **Smart Tool**.
2. Choose Windows Installation source file. Click  Browse button to select the directory or click  button to select an ISO file .
3. Choose **USB storage** and select your USB flash drive in the drop-down list. In case the USB flash drive is not listed, click  Refresh Drive button.
4. If you want to install Windows on the RAID drive, select the RAID driver version from the drop-down menu.
5. If you want to add NVMe driver for your NVMe SSD drive, check the **Add NVMe driver** checkbox.

6. Click **Start** to complete the process. When prompt **Finish!**, click **OK**.

 **Important**

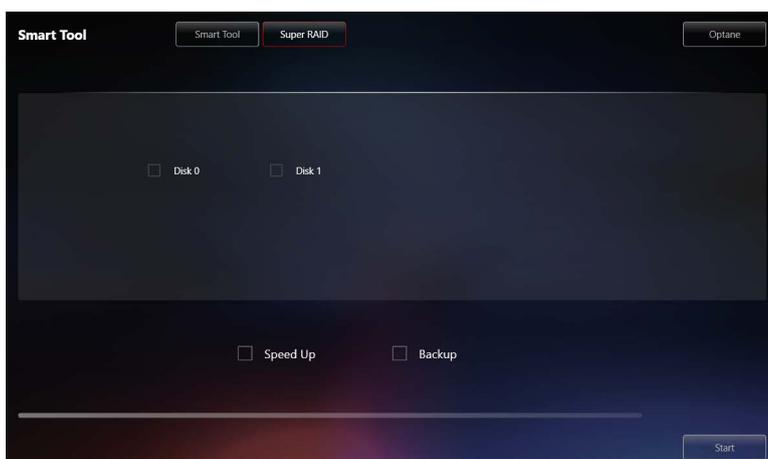
You can also install Windows from an ISO file. Select the **ISO destination**, and then burn it onto the DVD. However, this method does not support RAID drive.

## Super RAID

This utility allows you to create a super RAID in Windows system.

 **Important**

The **Super RAID** button is only available when your system equipped with at least 3 hard-disk drives (1 system disk and 2 data disks).



### How to Create a Super RAID

1. Click **Super RAID**.
2. Use checkboxes to select the disks you want included in your RAID.
3. Choose **Speed Up** or **Backup** for RAID type.
  - Speed Up = RAID0
  - Backup = RAID1
4. Click **Start**.
5. When prompt **Finish!**, click **OK**.

 **Important**

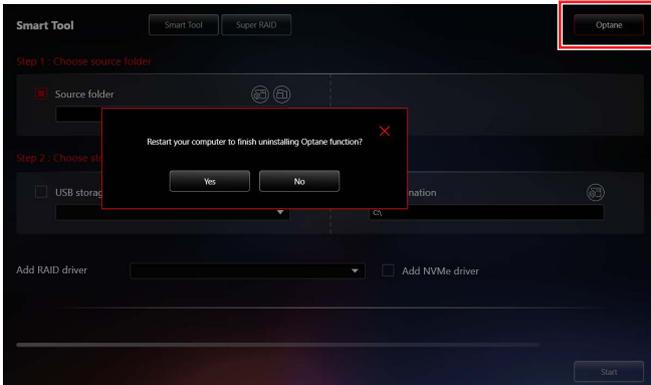
**SUPER RAID** can't include the system disk.

## How to Uninstall Intel® Optane™ Memory

After Intel Optane Memory is enabled, the system BIOS settings will be switched from AHCI mode to **RAID/ Optane** mode. If you directly uninstall Intel Optane Memory and switch BIOS settings back to AHCI mode, it will prevent Intel Optane Memory from functioning properly and the system may not boot. MSI has developed a tool that can help you uninstall Intel Optane Memory and safely switch back to AHCI mode.



The **Optane** button is only available when Intel Optane Memory is Enabled or Intel Rapid Storage Technology is Enabled.



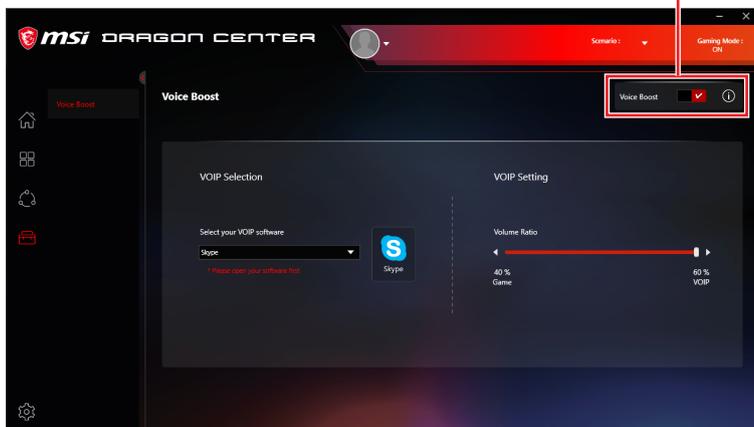
1. Click the **Optane** button.
2. When prompt **Restart your computer to finish uninstalling Optane function?** click **OK**.
3. Reboot System.

# Voice Boost (Install by Live Update)

Voice Boost is an audio mixer that manages audio volume on VoIP and apps. What gamers need to do is set the priority level of his or her voice. After that, Voice Boost will automatically control audios, and make sure the voice is clearer by dynamically decreasing volume from other apps. If the voice is not detected, all volume will return to the original settings.

Tools > Voice Boost

On/Off Voice Boost

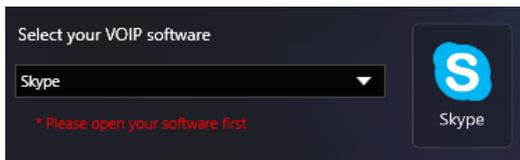


## Important

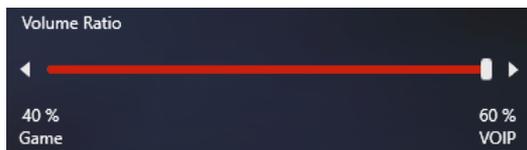
- The Voice Boost function is only available with Nahimic 2.5/3 and voice communication tools (TeamSpeak, Raidcall, Skype, SkypeHost and Discord).
- Voice Boost doesn't support PRO Series Motherboards.

## Enabling Voice Boost

1. Install Nahimic and a voice communication tool.
2. Turn on the Voice Boost switch in the upper right corner of the screen.
3. Select your VoIP software.



4. Adjust the volume ratio for VoIP software.



# Super Charger (Install by Live Update)

## Tools > Super Charger

Super Charger provides charging function for iPad, iPhone and iPod.

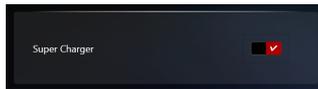
iPad has a different power requirement: 1.6A power supply rather than the 0.5A current available with conventional USB interfaces. That is why computer cannot charge your iPad even with power on. The MSI Super Charger is a Windows resident program capable of changing power supply mode of your USB port. Once iPad is connected to your USB port, the Super Charger will send a signal to initiate its charging circuit.

## Enabling Super Charger

Super Charger function will be enabled automatically after installing Super Charger.



If your motherboard has a Super Charger Port (please refer to the motherboard user manual), the following dialog will appear. And **Turn On** the switch.



When you shutdown, hibernate, or put your computer to sleep, Super Charger Port will be still able to provide charging function.



When a warning prompt window appears, click **Yes**  to continue.

## **Important**

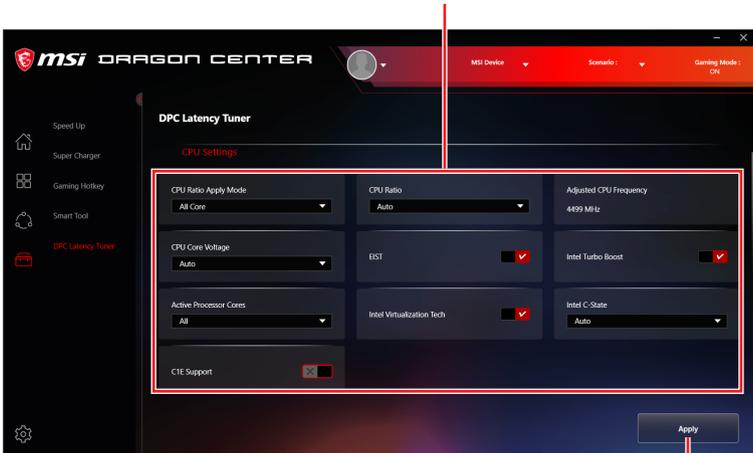
*When Super Charger is enabled, the Super Charger Port will be changed to Charging mode, therefore, the data syncing will be disabled.*

# DPC Latency Tuner (Install by Live Update)

## Tools > DPC Latency Tuner

DPC LATENCY TUNER is a convenient tool that helps you optimize your PC settings to get a smooth audio/video playback experience and a faster responsive system. For instance, you can easily change the CPU, iGPU ratio and DRAM frequency when playing different games. A higher iGPU frequency clock can bring a better quality of image resolution.

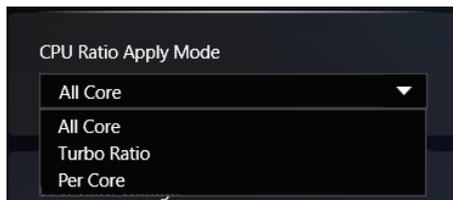
Adjust CPU, memory and iGPU settings.



Apply changes

## Selecting CPU Ratio Apply Mode

Different games have their own appropriate core, and you can change it to **All Core**, **Turbo Ratio** and **Per Core** by adjusting the **CPU Ratio Apply Mode** to acquire the best gaming experience.



# Notices

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## Revision History

Version 2.0, 2018/09, First release

Version 2.1, 2018/09, Add Gaming Hotkey, Voice Boost

Version 2.2, 2019/01, Add Mystic Light, Smart Tool, Super Charger, DPC Latency Tuner

Version 2.3, 2019/02, Change to white background

Version 2.4, 2019/07, UWP version

Version 2.5, 2019/10, Add Gaming Hotkey, Voice Boost, Smart Tool, Super Charger

Version 2.6, 2020/06, Add Voice Command, Game Highlights

Version 2.7, 2020/09, Add Software Control mode switch

Version 2.8, 2020/10, Update Installation method & Add Frozr AI Cooling

Version 2.9, 2020/11, Add Noise Cancellation & Gaming Knob