Notebook Software Application Manual

V3.3

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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, you may contact our technical staff for further guidance at: http://support.msi.com/

❖ Revision History

Version	Revision History	Date
3.3	Latest Released	07, 2018

❖ About This Manual

This Software Application Manual provides instructions and illustrations on installing and using the software applications which are exclusively designed by MSI. This manual will give users more on how your notebook can be more efficient, convenient, and enjoyable with the help of these software applications.

The software applications selected here may be optionally supported for particular models. Contact the local dealer for further information if necessary.

MSI Dragon Center 2.0 (for Gaming Series only)**.....7**

The MSI Dragon Center 2.0 app is to be installed in user's MSI gaming notebooks, you can get total control over your PC. The redesigned Dragon Center 2.0 monitors and optimizes system performance through various customizable profiles and prioritize in-game performance.

MSI Dragon Dashboard 2.0 (iOS & Android) (for Gaming Series only) **.....30**

MSI Dragon Dashboard 2.0 is designed to connect your personal computer or notebook to your mobile device remotely. Users will be able to enjoy various customized functions offered by MSI.

Nahimic 3 (for selected models only)**.....38**

Nahimic 3 is designed to give users the best audio experience, offering various audio effects and automatic recording function.

SteelSeries Engine 3 (SSE 3) (for selected Gaming Series only) **.....47**

SteelSeries Engine 3 allows user to have full control over keyboard bindings and to customize the color, effects, and levels of illumination on your notebook.

The new software suite also offers cross platform support for all SteelSeries products and features a cloud syncing system to make sure you always have your profiles wherever you are. SteelSeries Engine 3 is only available in GT, GS, GE Gaming Series only.

MSI True Color (for selected models only)**.....71**

MSI True Color allows users to select the best color setting for the content being viewed. It characterizes and controls laptop panels for precise image presentation. When the application is launched, the display automatically changes to the assigned color setting.

Help Desk (for selected models only) 88

MSI Help Desk allows users to get live update information, receive the latest news and important notices.

MSI Battery Calibration 94

MSI Battery Calibration helps to extend the life cycle of the battery. It automatically refreshes the battery capacity through efficient processes of charging, discharging and recharging the battery.

Recovery Image Backup Tool 99

Recovery Image Backup Tool, the utility designed to backup the recovery image to blank DVD disks, a USB flash disk or ISO files. They can be used to recover the system to manufacturer's default settings when it is needed. Usage of this application on any product with no authorization may be prohibited.

Note

❖ MSI Dragon Center 2.0

The redesigned Dragon Center 2.0 monitors and optimizes system performance through various customizable profiles and prioritize in-game performance.

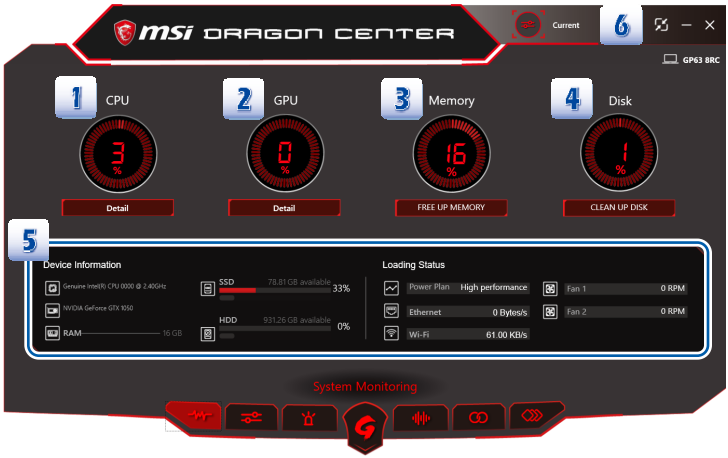
Note: The MSI Dragon Center 2.0 is only available for MSI gaming laptops and desktops with 8th Gen. Intel® Core™ i9/i7/ i5 processors.

Main Window

1. **System Monitoring:** monitor your system status in real-time time.
2. **System Tuner:** customize your PC environment according to user's preferences.
3. **LED Wizard:** configure LED settings for specific scenario.
4. **Gaming Mode:** provides auto-tuning function for the game you are playing with the best possible visual & audio lighting settings and brings you a superior gaming experience.
5. **Voice Wizard:** adjust in-game audio volume during VOIP for clearer team chat.
6. **Mobile Center:** user can remote control your MSI PC/NB over WiFi from your mobile device.
7. **Tools & Help:** give users support information, backup tools and easy access to MSI website.

System Monitoring

User can check your NB/PC's diagnostics including system status and performance improvement tools, like component load levels and the ability to free up memory space.

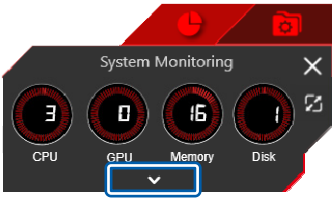


1. **CPU:** click **[Details]** to show CPU temperature.
2. **GPU:** click **[Details]** to show GPU Core clock, CPU memory clock and more.
3. **Memory:** click **[FREE UP MEMORY]** to clear memory cache in Windows 10.
4. **Disk:** click **[CLEAN UP DISK]** to open Disk Cleanup.
5. **Device Information and Loading Status:** show overall system status.
6. **Mini Mode:** display key information on a smaller window.

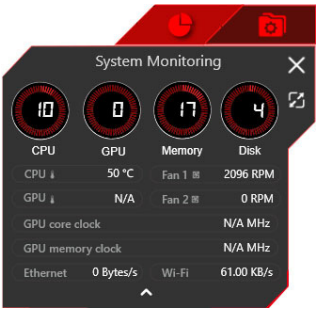
Mini mode

Mini mode displays CPU/GPU/Memory/Disk information on a smaller window and allows user to change current system settings.

1. Click the icon on the upper-right corner in the main screen to call up **Mini mode** that only shows stats of CPU, GPU, Memory and Disk.

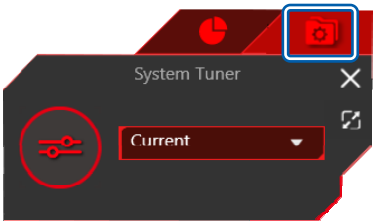


2. Click to show more details.

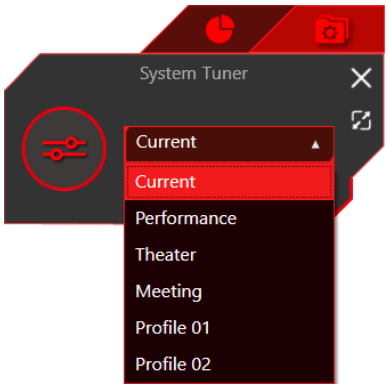


Switch to System Tuner

1. Click to switch from System Monitoring to System Turner.



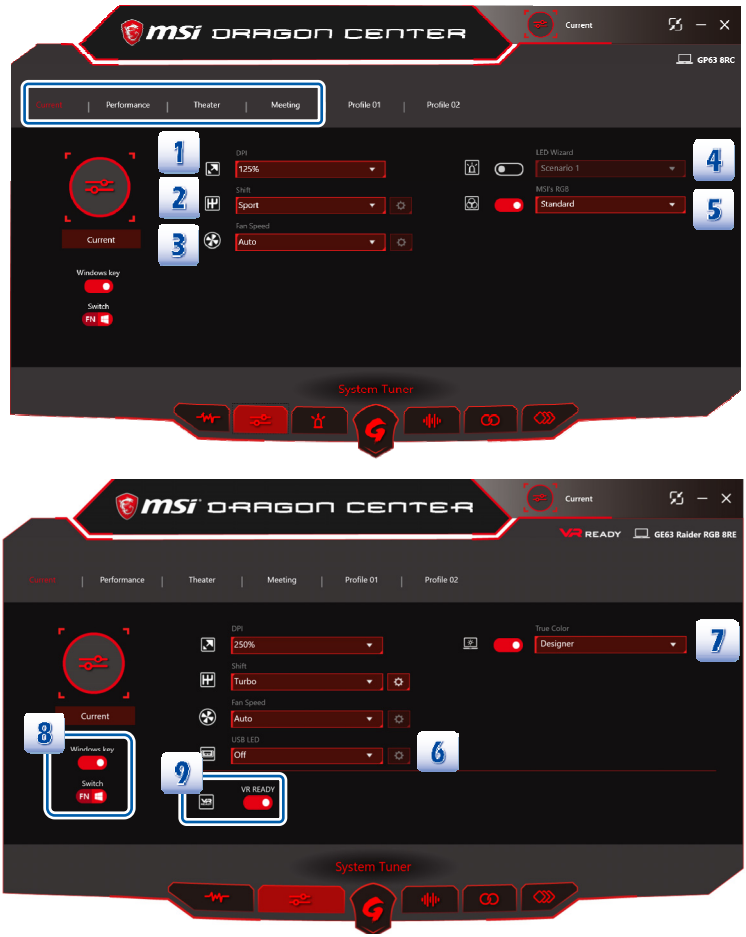
2. Click drop-down menu to change among six profiles.



System Tuner

This function allows you personalize your PC environment according to user's preferences. Use **Current** tab to change real-time system environment. Preset profile settings: **Performance**, **Theater** and **Meeting**, and user defined settings: **Profile 01** and **Profile 02**.

■ **Pre-set profile settings: Current, Performance, Theater and Meeting**



1. **DPI:** change the size of text, desktop icons apps, and DPI scaling level for your display.
2. **Shift:** select different system performance.
3. **Fan Speed:** select fan speed for your preference.
4. **LED Wizad:** switch among various scenario configurations.
5. **MSI's RGB:** select the one of the following view modes that best suits your purpose.
6. **USB LED:** select to enable USB port LED. This function is only available for selected models.
7. **True Color:** select to activate True Color configuration. This function is only available for selected models.
8. **Keyboard configuration:** disable or enable the Windows key and swap FN and Windows keys.
9. **VR Ready:** disable or enable the VR Ready key.

Note: Some functions are only available for selected models.

- **DPI**

  Change the size of text, apps, and DPI scaling level for your display. Available options: 100%, 125% (default), 150%, 175% and 200%.

■ **Shift**

Shift function pushes your rig to the limit under controlled noise and temperature. Available options: Turbo, Sport(default), and Comfort, ECO.

This function can be activated using the [Fn] combination keys on the keyboard. Please refer to the User's Manual for more information.

Turbo	Manually adjust the Core and VRAM clock offset to overclock the system, yet keep the system temperature and noise level down. Note: Turbo mode is available on K series CPU models and AC battery mode only.
Sport (default)	Boost system to higher clock setups to satisfy your need of speed. Fan speed will be accelerated to make the platform stable and keep the CPU and GPU temperature lower. (AC battery mode only)
Comfort	When in need of a quiet environment, Comfort mode is your perfect choice. It sets the system to a balanced, stable status, but still keeps dynamic and high performance.
ECO	Keep lower power consumption for normal computing works.

■ **Fan Speed**

This item allow users to select from various mode in the drop-down menu. Available options: Auto, Basic, Advanced and Cooler Boost.

- **Auto** (default): configure fan speed automatically.
- **Basic**: adjust fan speed by a slide bar.
- **Advanced**: choose the fan speed by temperature.
- **Cooler Boost**: system runs at maximum CPU and GPU Fan Speed.

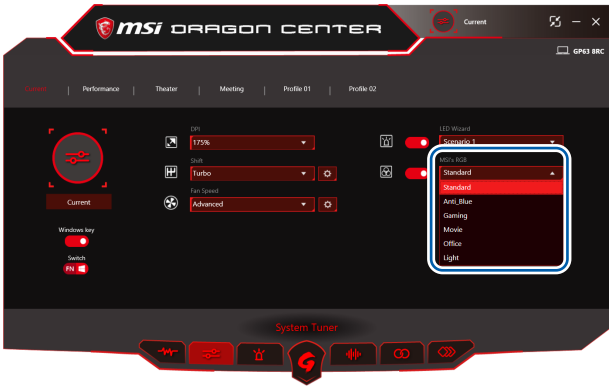
■ **LED Wizard**

This tab allows user configure keyboard or PC lighting settings for specific scenario. Scenario and brightness can also be switched and adjusted through your mobile phone with MSI Dragon Dashboard 2.0 App installed.

- **LED Mode**: user can configure five scenarios for your personal style. Available options: Normal, Gaming, Breathing, Audio and Wave.
- **Sleep Mode Setting**: select illumination settings when your system is in S3 sleep state. Available options: LED Off, Breathing and Keep Original.
- **Brightness**: user can adjust the brightness of your backlit keyboard.

■ **MSI's RGB**

This tab allows user configure LED settings for specific scenario. Available options: Standard, Anti_Blue, Gaming, Movie, Office, and Light.



■ **USB LED**

Select to enable USB port LED. This function is only available for selected models. Available options: Full Brightness, Half Brightness and Off.

■ **True Color**

Select to activate True Color configuration. This function is only available for selected models. Available options: Gamer, Anti Blue, sRGB, Designer, Office, and Movie.

■ **Keyboard Configuration**

To disable or enable the Windows key and to swap FN and Windows key.

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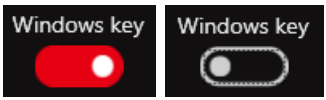
◆ **Enable or disable Windows key**



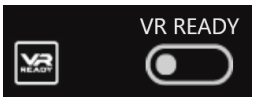
◆ **Swap Fn and Windows key**

■ **VR Ready**

This function is only available for models with NVIDIA GTX 1060 graphics card or that of higher level.

◆ **VR READY Activated**

◆ **VR READY Unactivated**



■ **User defined settings: Profile 01 and Profile 02**

1. **Edit Profile**: User can add a photo and set up shortcut keys for launching **Profile 01** or **Profile 02**.
2. **Launch App**: User can launch up to four apps for each Profile.

Gaming Mode

You can use Gaming Mode to automatically tune up system components to perform best with supported games. Available options: System Optimzation, Shift Mode, True Color and Nahimic.

Click Settings to slect from Gaming Mode Options:

- **System Optimization**: Free up memory and prioritize game applications
- **Shift Mode**: Check to select different system performance.
- **True Color**: Check to activate True Color configuration.
- **Nahimic**: Check to activate Nahimic configuration.

Voice Wizard

VoiceBoost can adjust your in-game voice settings for clearer team chat.

Supported VoIP softwares include: TeamSpeak, Raidcall, Skype, SkypeHost and Discord.

Mobile Center

Mobile Center allows user remote control your MSI PC/NB over WiFi from your mobile device. You need to have the "MSI Dragon Center" pre-installed on your PC/NB and "MSI Dragon Dashboard" on your mobile device.

■ **Macro Editor**

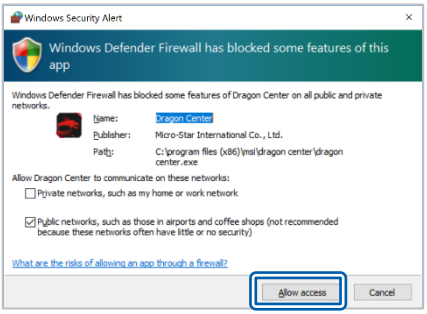
Some SteelSeries devices allow you to use macros to perform a series of actions with the click of a button. They can include any custom combination of key and button presses.

■ **Download**

Click and find the QR code below to download Dragon Dashboard 2.0. Scan the one for your smart phone type or selct the one in the right if you're in China.

■ **Configure the Mobile Connection**

1. Click Mobile Connection to **[On]**. PC will start search mobile devices with Dragon Dashboard activated in the same IP address.
2. Click **[Allow access]** when Windows Security Alert pops up.
3. Tap **[Start]**, and you will be prompted to scan QR code on Mobile Center tab of Dragon Center 2.0. Scan to connect.
4. When your NB/PC indicates succesful connection status, you are ready to get total control over your NB/PC.



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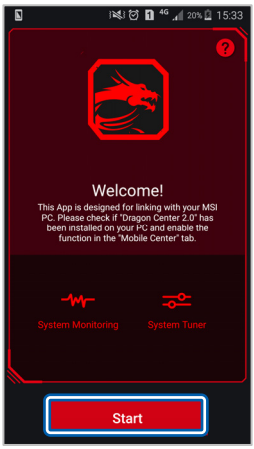
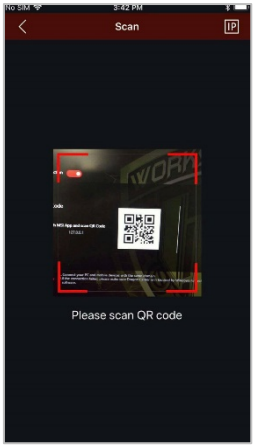

15:33
Welcome!
This App is designed for linking with your MSI PC. Please check if "Dragon Center 2.0" has been installed on your PC and enable the function in the "Mobile Center" tab.
System Monitoring
System Tuner
Start


Scan
Please scan QR code

4

msi DRAGON CENTER
Mobile Connection
QR Code
Launch MSI App and scan QR Code
Connection status
Connect Successfull
Mobile Center

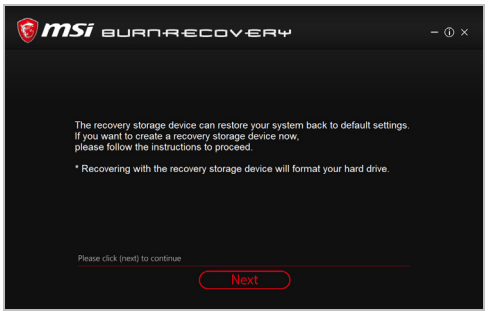
Tools & Help

These tabs provide users supports, product information, useful system backup tools and access to MSI website easily.

1. **Tool and Help**

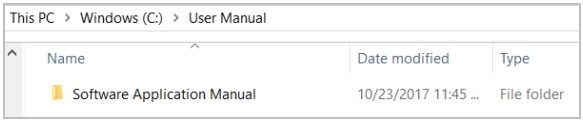
   Burn Recovery

   Use this tool and follow on-screen instructions to create system backup file.



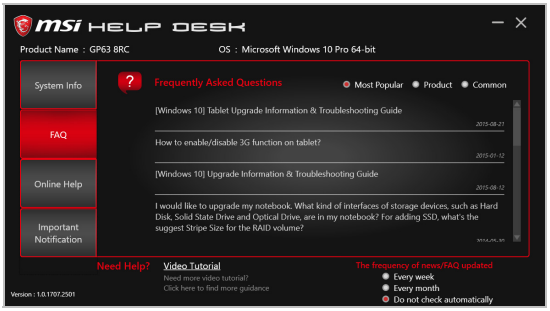
User Manual

Click to locate **User Manual** for your NB/PC.



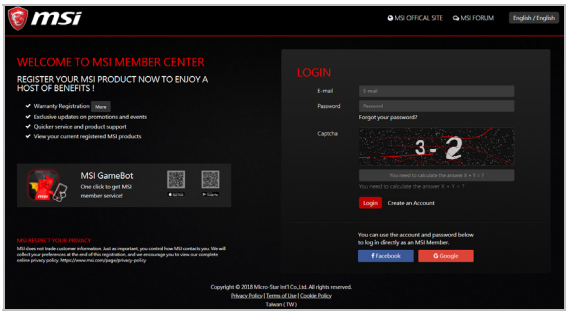
Help Desk

Click to find System Info, FAQ, Online Help and Important Notification.



Product Registration

Click to enter MSI member center and register your MSI product.



Battery Calibration

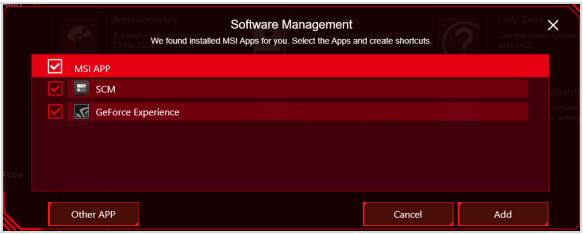
Batter Calibration helps to extend the life cycle of the battery.

Feature Navigator

Click to find out new features, promo videos and more.

2. Recommended Apps

You can add MSI softwares here.



Profile Editing

The created Profile can be edited if needed. Move the mouse cursor to a profile and then right click the mouse.

- **Launch:** Launch the selected App.
- **Delete:** Delete the selected App from the Dragon Center.

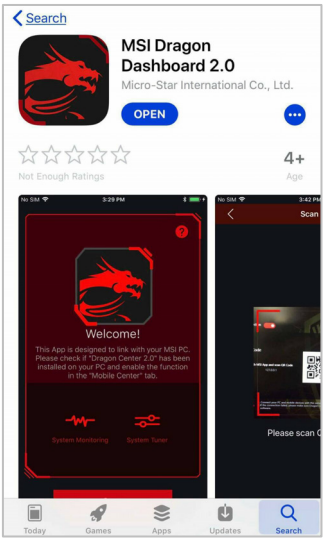
Note

❖ MSI Dragon Dashboard 2.0

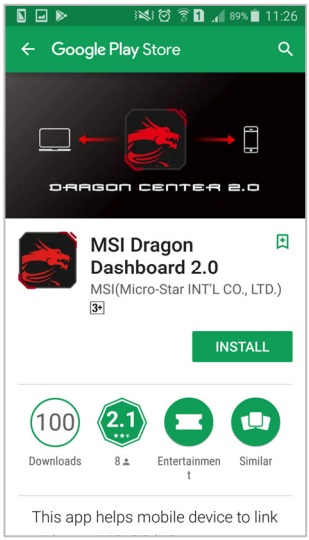
This app is designed to connect your personal computer, notebook to your mobile device remotely. Users will be able to enjoy various customized functions offered by MSI.

Dragon Dashboard 2.0

- **Find MSI Dragon Dashboard 2.0** on App Store or Google Play™ Store.
- Follow the on-screen instructions to install the app on your mobile device.



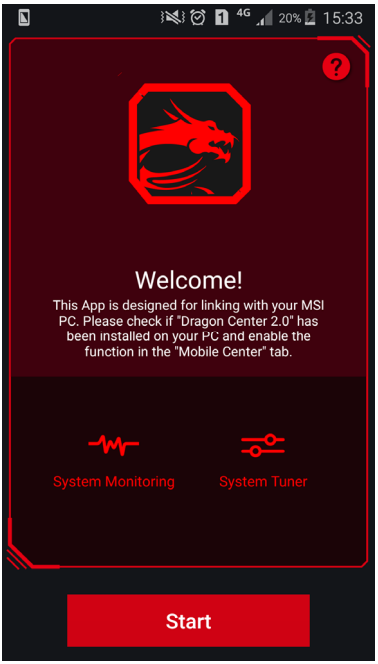
App Store



Google Play™

Main Screen

MSI Dragon Dashboard 2.0 includes two major functions, System Monitoring, and System Tuner.

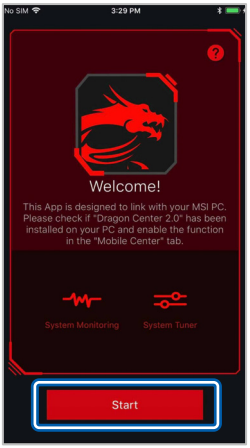


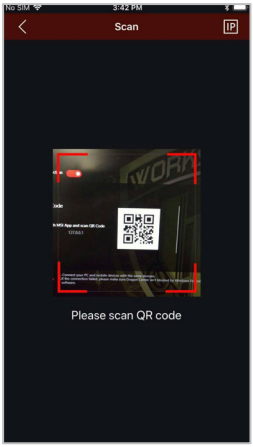
Before You Start

■ Connect Your Mobile Device to Your NB/PC

1. Tap **[Start]**, and you will be prompted to scan QR code on Mobile Center tab of Dragon Center 2.0. Scan to launch the app.
2. When your NB/PC indicates succesful connection status, you are ready to get total control over your NB/PC.

1



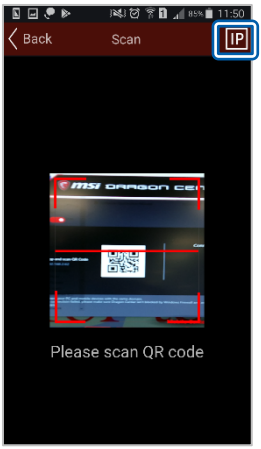


2

■ Connect Your Mobile Device to Your NB/PC Manually

1. In case of a connection failure, tap **[IP]** to enter IP address manually.
2. Be sure to enter the same IP address with that shown on Mobile Center and tap **[Connect]**. When your NB/PC indicates succesful connection status, you are ready to use the app.

1



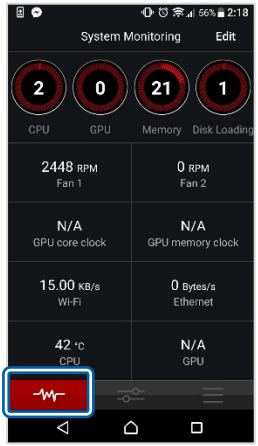
2

2

System Monitoring

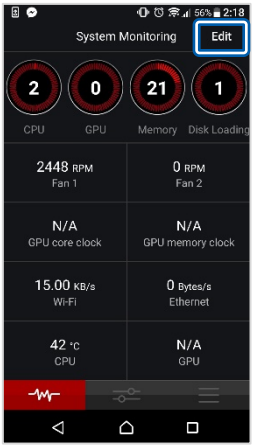
This function shows the information of System Monitor in Dragon Center. In addition, you can check your PC game's FPS.

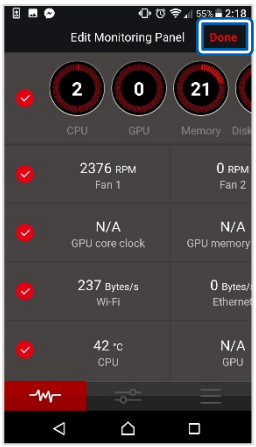
■ Main



■ Edit display items

Tap **[Edit]** to uncheck those items you don't need and select **[Done]** to close.





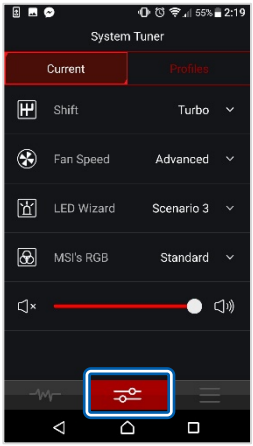
System Tuner

This function show Users are allowed to adjust various settings from the dropdown list.

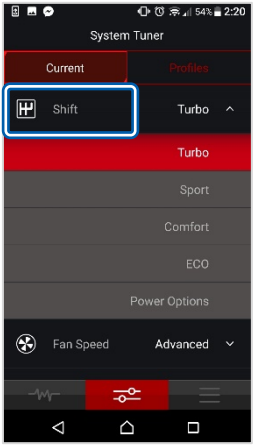
Note: Some functions are only available for selected models.

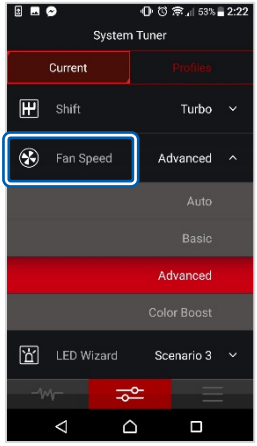
■ Current

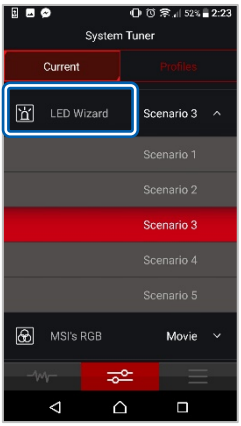
This selection allow user to change current system settings. Select from drop-down menu.

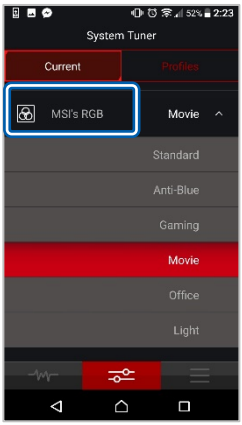


Available options: Shfit, Fan Speed, LED Wizard and MSI's RGB.



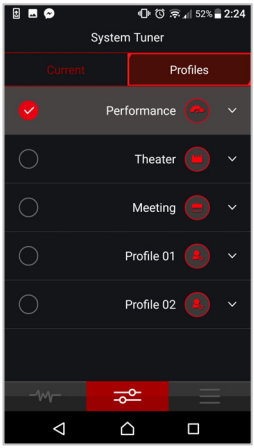






■ Profiles

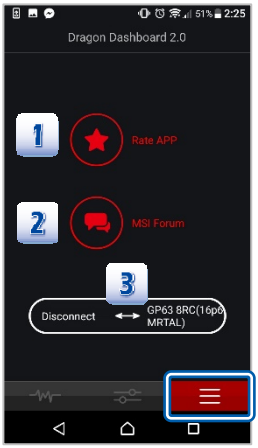
This selection allow user to change profile settings. Select from drop-down menu.



Menu

This tab allows users to configure LED settings for specific scenario. Available options: Rate APP and MSI Forum.

■ **Main**



1. Tap to rate Dragon Dashboard 2.0 on the Google Play store or Apple store.
2. Tap to acess to MSI Forum.
3. Tap **[Disconnect]** to disconnect the mobile device from your NB/PC

Note

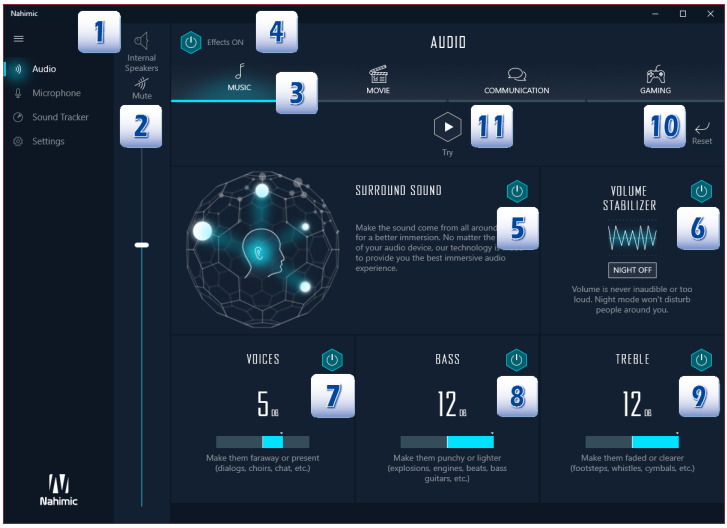
❖ Nahimic 3

Nahimic 3 is designed to give users the best audio experience, offering various audio effects and automatic recording function. Find the Nahimic launching icon on the desktop or the system tray in the lower right-hand corner of screen. Click on this icon to launch the Nahimic 3 application.

Main Window

Nahimic 3's UI is composed of a main window with 4 tabs, which are Audio, Microphone and Sound Tracker, and Settings.

Audio



1. **Device display and volume**
   Displays the type of recording device currently being used as input, as well as its current volume.

2. **Mute**
   Mutes the current audio device.

3. **Audio profiles**
   Allows you to choose between 4 factory audio profiles to fit your multimedia experience (Music, Gaming, Movie or Communication). All profiles can be modified as you wish.

4. **On/Off botton**
   Allows you to turn all of Nahimic 3's audio effects on and off in one click.

5. **Surround Sound**

   Surround Sound is an audio effect mainly dedicated to headphones acoustic experience. Here is what it does.

   - Gaming and Movies

     Virtualizes the multichannel audio stream from the game engine or the movie soundtrack and downmixes it in order to retrieve a multichannel listening experience over your stereo headphones or speakers.

   - Music

     Expands the stereo for a wider sound stage.

6. **Volume Stabilizer**

   This compressor maintains a constant volume for all elements of the audio experience (dialogs, soundtrack, explosions, etc.) to make them all sound softer, balanced or louder. The Quiet On / Off option allows to enter a night mode by removing some basses. This way, you won't disturb people around you if you're using speakers to play your media.

7. **Voices**

   Boosts (or removes) the speech in movies, video games and incoming communication from -12 to +12 dB. eded.

8. **Bass**

   Increases (or decreases) the energy in low frequencies from -12 to +12 dB.

9. **Treble**

   Increases (or decreases) the energy in high frequencies from -12 to +12 dB.

10. **Reset**

    Restores the current profile to its default settings.

11. **Try**

    Launches an audio sample that allows to test audio settings.

Microphone

1. **Device display and volume**
   Displays the type of recording device currently being used as input, as well as its current volume.
2. **Mute**
   Mutes the current audio device.
3. **Mic profiles**
   Allows you to choose between 2 factory mic profiles to fit your experience (Chat or Conference). All profiles can be modified as you wish.
4. **On/ Off botton**
   Allows you to turn on and off all Nahimic 3's microphone effects in one click.
5. **Static Noise Suppression**
   The Static Noise Suppression removes the static noises like the ones coming from your computer fans.
6. **Echo Cancellation**
   Improves the voice quality by cancelling the echo.

7. **Lateral Sound Cancellation**
   Only records the sound coming from the front of your microphone.
8. **Voice Stabilizer**
   Levels the volume of your voice in order to avoid any saturation and maintains a constant and clear communication.
9. **Reset**
   Restores the current profile to its default settings.
10. **Try**
    Turns the microphone loopback On/Off.

Sound Tracker

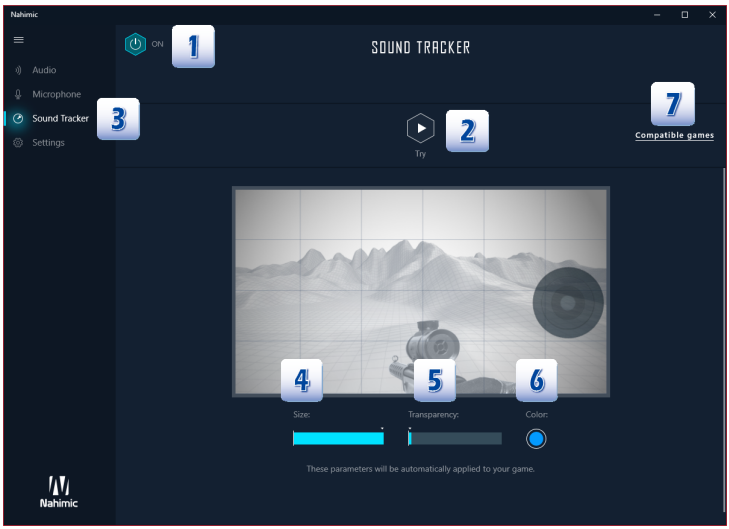
The Sound Tracker is an FPS oriented feature that provides a visual indication localizing the sources of the sounds while in a game.

These are represented by dynamic segments pointing the direction of the sounds: the more opaque they are, the stronger the sounds are.

Thanks to this feature, players are able to pick up an approaching threat more definitively and easily, thereby being even more dynamic.

The Sound Tracker captures the 5.1 and 7.1 sound streams processed by your audio system, and is displayed in all applications and games using DirectX 9, 9c, 10 and 11.

You can refer to the official games list that is supported by the Sound Tracker by clicking the link on the top right of the screen



1. **ON / OFF Button**
   You can disable the Sound Tracker by switching this option OFF.
2. **Try**
   Launch a 7.1 audio sample allowing you to preview how the radar will react in your game.
3. **Sound Tracker**
   You can place the Sound Tracker wherever you want on your screen with a drag and drop action, or with a simple click.
4. **Scale**
   Adjust the scale of the Sound Tracker, making it look bigger or smaller.
5. **Transparency**
   Adjust the transparency of the Sound Tracker, making it look more or less discrete.
6. **Color**
   Click the colored circle to open the color edition window. You can apply the color you want to the dynamic segments
7. **Compatible games**
   Clicking this link opens the official Nahimic website, and leads to the list of compatible games able to display the Sound Tracker.

Settings

1. **Language**

   The language of Nahimic 3's UI is based on the OS language. However, you can manually change the language in the preferences window (English, Simplified Chinese, Traditional Chinese, French, German, Italian, Spanish, Japanese, Korean, Russian, Portuguese or Polish). Warning: only the languages already installed on your machine in your Region & language options will appear in the list. **Reset All**

   Reset all the settings back to defaults.

2. **Version and website**

   Access the current version of Nahimic 3 installed on your computer, and get to the official website.

3. **Social media**

   Get to our social media pages to discover Nahimic's universe.

4. **Help us improve Nahimic**

   When you enable analytics, you help us improve Nahimic by sharing your user's experience. This let us know more about your habits with Nahimic and adapt better the user experience we offer.

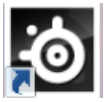
5. **Support**

   You can ask for help or just for a question on our dedicated support pages.

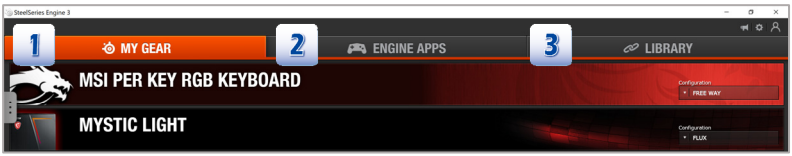
Note

❖ SteelSeries Engine 3 (SSE 3)

With SSE3, you can customize your key binds, macros, and illumination settings for your MSI keyboard.
Note that SteelSeries Engine 3 is only available in selected Gaming Series only.



Main Window



1. **MY GEAR**

   The **MY GEAR** tab lists recognized SteelSeries devices which can be clicked to access advanced settings.

2. **ENGINE APPS**

   Engine Apps is a collection of in-game integration and purpose-built applications that deliver custom-designed benefits.

3. **LIBRARY**

   The **LIBRARY** tab shows what programs trigger a configuration for each device.

MY GEAR

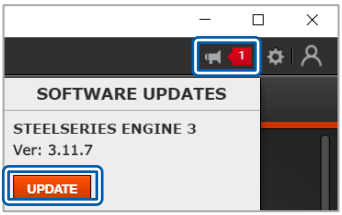
To customize illumination settings, macros and binds for your MSI Per Key RGB keyboard.

- **Device Cards**

  When you connect a SteelSeries device, SteelSeries Engine 3 remembers it and adds a **Device Card** to MY GEAR.

- **SOFTWARE UPDATES**

  The megaphone at the top right corner of the Main Window is the Notification Icon. When it indicates that an update is available, select the icon to open the SOFTWARE UPDATES Dropdown. Click **[UPDATE]** to get the latest verion.

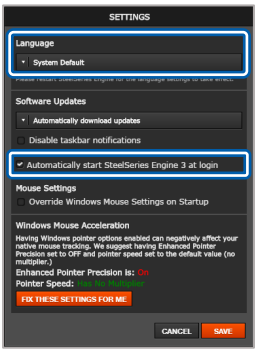


- **Application Settings**

  In Settings you can change languages and choose whether you want SteelSeries Engine 3 background processes to run automatically when you start-up your computer.

  Language selection

  Open **SETTINGS** by selecting the gear icon at the top right corner of the Main Window. To change languages, select a language from the dropdown, select **[SAVE]**, close the interface, and then reopen it.

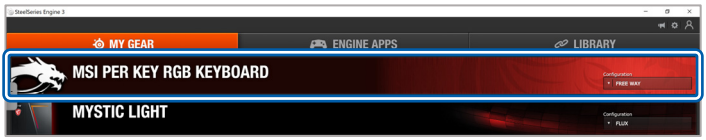


  Automatic start

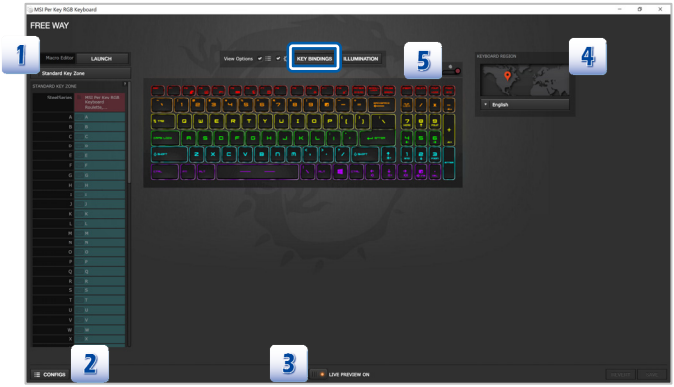
  Selecting Automatic Start will start SteelSeries Engine background processes automatically when you start-up your computer. Automatically starting the background processes means that configurations will immediately be deployed to your devices without interrupting your experience.

KEY BINDINGS

Click **MSI PER KEY RGB KEYBOARD** to start.



Users can customize your key binds, macros, and illumination settings.



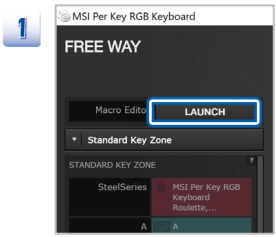
1. **Macro Editor:** SteelSeries has a dedicated macro manager that you can launch by hitting the button on top of the list of keys. This is where you can save or remove macros.
2. **Configs:** You can also open a configuration window on the left, where you can access, create and edit your various profiles.
3. **Live Preview:** gives you the full experience of your configuration's look, feel, and sound while you are editing it.
4. **Keyboard Region:** Use this widdget to change the appearance of the software so that it corresponds with your physical keyboard.
5. **View Options:** Show or to hide Macro Editor, Configs and Keyboard Region.

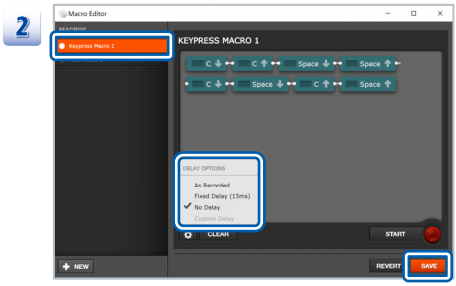
■ **Macro Editor**

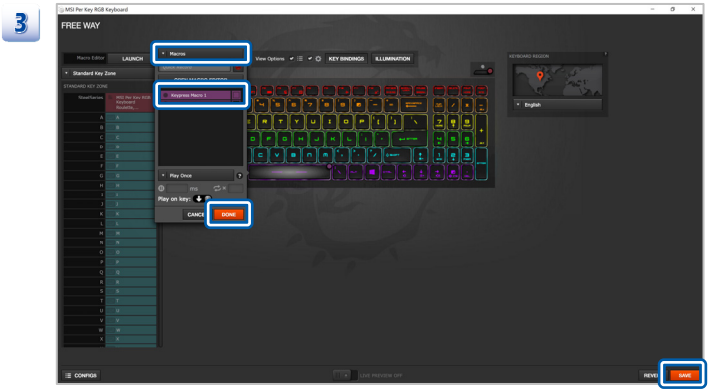
Some SteelSeries devices allow you to use macros to perform a series of actions with the click of a button. They can include any custom combination of key and button presses.

Keypress Macro

1. Clicking the **[LAUNCH]** button brings up the Macro Editor settings.
2. Select Keypress Macro. Set Delay Options for your liking then click **[START]** to record the macro. Click **[STOP]** to stop recording and click **[SAVE]** to close. C+Space is defined here.
3. Click Space bar of the keyboard. Select Macros in the drop-down menu and then the macros you just defined. Choose **[DONE]** to close and **[SAVE]** in the main screen to finish.

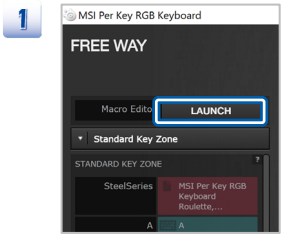


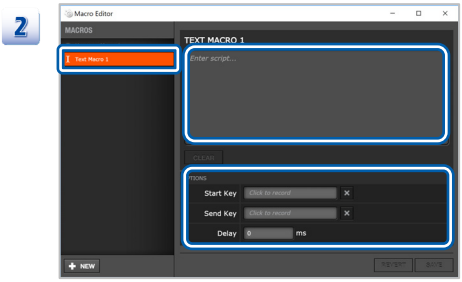


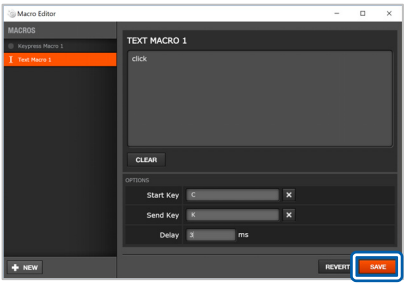


Text Macro

1. Clicking the **[LAUNCH]** button brings up the Macro Editor settings.
2. Select Text Macro. Enter Scripts in Text Macro and options fields and click **[SAVE]** to finish.

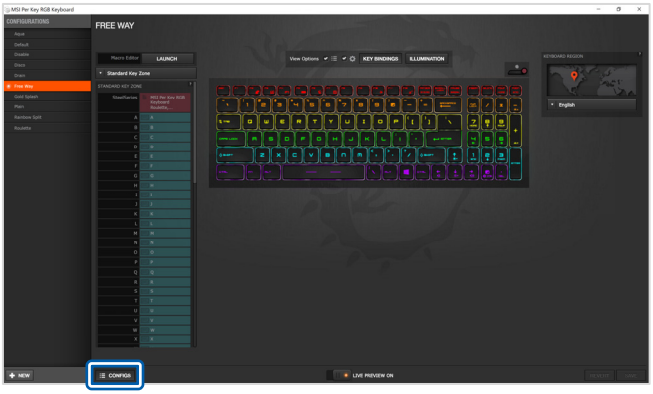






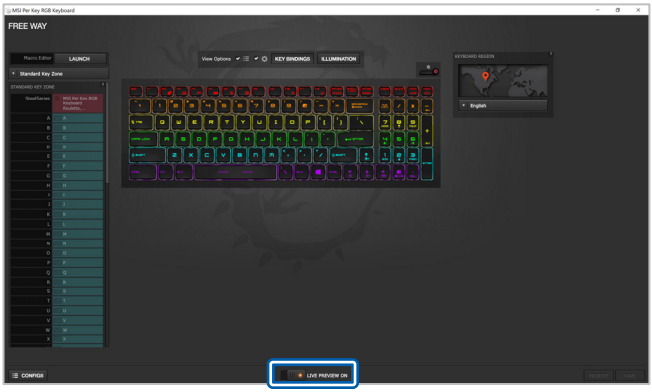
■ **CONFIGS**

Click **[CONFIGS]** to find out more available configurations.



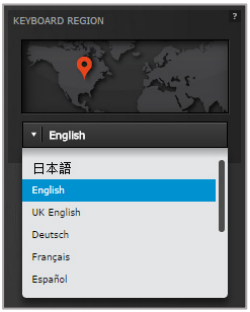
■ **LIVE PREVIEW**

Live Preview gives you the full experience of your configuration's look, feel, and sound while you are editing it. Live Preview can be turned on and off by selecting the toggle.



■ **KEYBOARD REGION**

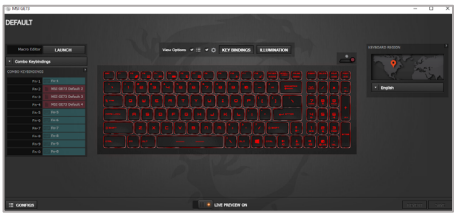
Use this widget to change the appearance of the software so that it corresponds with your physical keyboard.



■ **View Options**

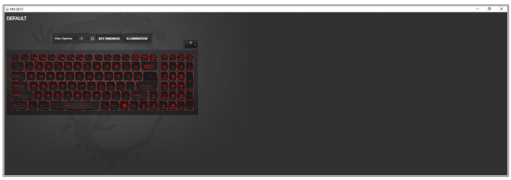
View options allow you to show or to hide Macro Editor, Configs in the left and keyboard region in the right.

Default: both



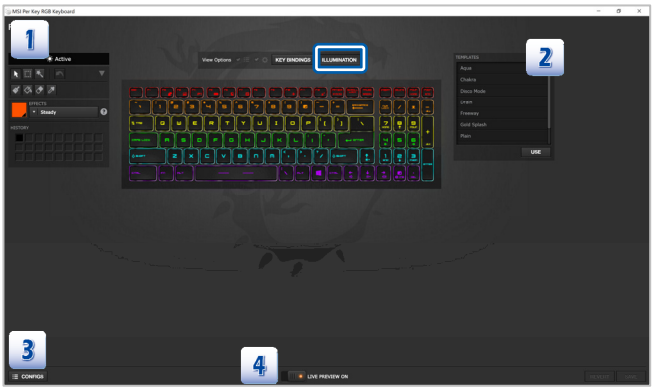
Uncheck Left

Uncheck



ILLUMINATION: Setting up your Per-key RGB backlight KB

With per-key RGB illumination, change the color of the individual keys on a MSI SteelSeries backlit keyboard.



1. **Manual Customization**

   Create your own color schem with tools.

2. **Select from Templates**

   Select from one of SteelSeries pre-made layouts.

3. **Configurations**

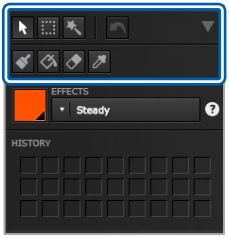
   one of SteelSeries pre-made layouts.

4. **Live Preview**

   Live Preview gives you the full experience of your configuration's look, feel, and sound while you are editing it. Live Preview can be turned on and off by selecting the toggle.

■ **Manual Customization**

With the tools on the left of the Window, you can literally configure each and every key. Select the designated key(s), area, or adjacent keys with the selection tools, then choose the color you want to apply.

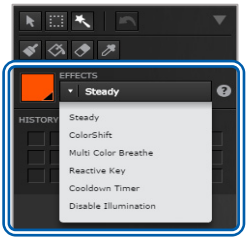


Tools

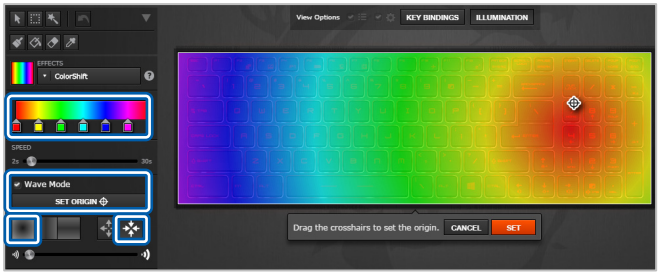
	Select: Click the zone(s) you want to edit. Use Shift to add to selection.
	Group Select: Drag a box around the zones you want to edit.
	Magic Wand: Click on a zone to select all zones that share the same effect.
	Undo: Undo the last change made in effect Settings.
	Paintbrush: Paint the current effect settings on other zones.
	Paintbucket: Fill the zones that are touching with the current effect settings.
	Eraser: Remove effect from zone and reset it to the default effect.
	Effect Picker: Click on a zone to select its effect settings without changing zone selecting.

Effects

Select **EFFECTS** from the dropdown menu. Available options: Steady, ColorShift (both stationary and in Wave Modes), Multi Color Breathe, Reactive Key, Cooldown Timer and Disable Illumination.



- **Steady**: When Steady is applied to one or more keys, they will be illuminated with a single color. Use the color picker to the left to choose a color.
- **ColorShift**: Add colors to the sequence by clicking near the bottom edge of the gradient. Remove colors by dragging them down. Change colors by clicking on the swatches. Wave Mode will make the colors sweep across the keyboard in waves. When Wave Mode is enabled, click **[SET ORIGIN]** to change the starting point of the wave.



- **Multi Color Breathe**: Add up to four colors using the editor below.
- **Reactive Key**: A key will normally be the rest color, but when pressed will light up with the active color. Click on the swatches next to Rest Color and Active Color to change the colors of the effect.
- **Cooldown Timer**: Cooldown Timer will cause affected keys to change from the Ready Color to the Cooldown Color for the duration of the Timer field value.
  Note: Cooldown Timer feature only works when SteelSeries Engine 3 is running.
- **Disable Illumination**: Disable Illumination turns off illumination on affected keys.

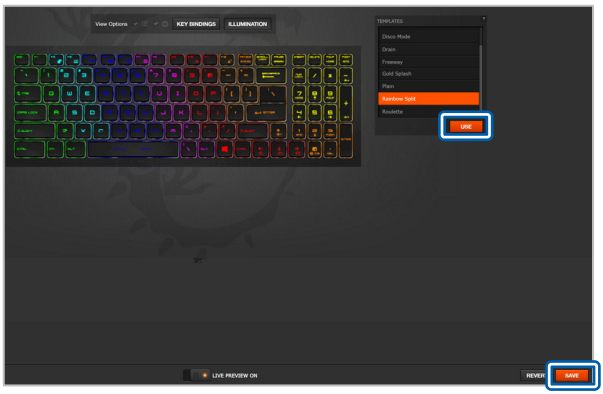
■ **Select from Templates**

The easiest way to start is to select from the various built-in presets. Simply click on any of the presets and click on **[USE]** to enjoy the results. Click on **[SAVE]** if you find one that suits your style. Templates are lighting patterns that will affect the whole keyboard when applied. They will overwrite any existing illumination effects. Here are some templates.

Freeway

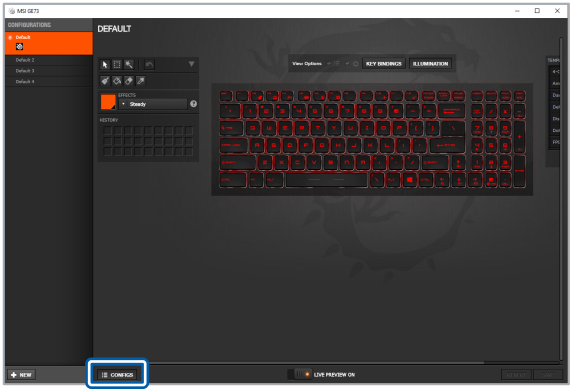
Plain

Rainbow Split



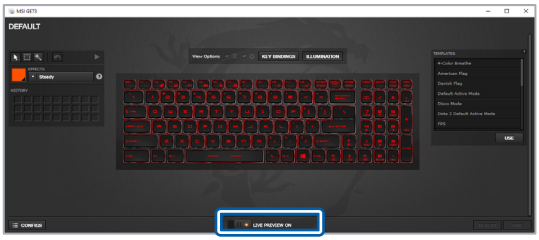
■ **CONFIGS**

You can also open a configuration window on the left, where you can access, create and edit your various profiles.



■ **PREVIEW**

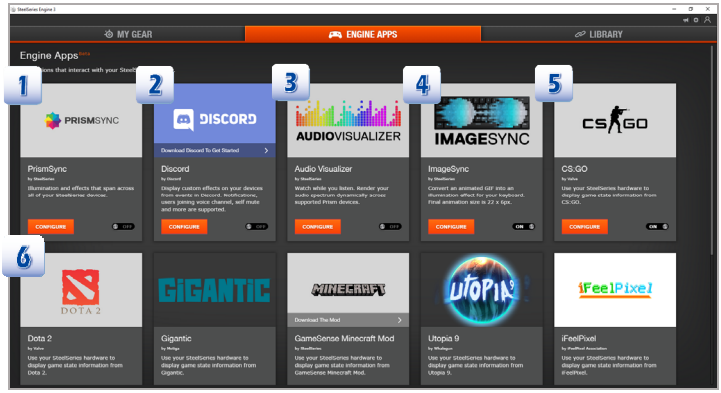
Live Preview gives you the full experience of your configuration's look, feel, and sound while you are editing it. Live Preview can be turned on and off by selecting the toggle.



ENGINE APPS: GameSense

GameSense is the building block for creating Engine Apps. It's the Software Development Kit that allows games and applications to deliver information to your OLED screen, trigger tactile alerts, and create RGB effects and more on your supported SteelSeries gear.

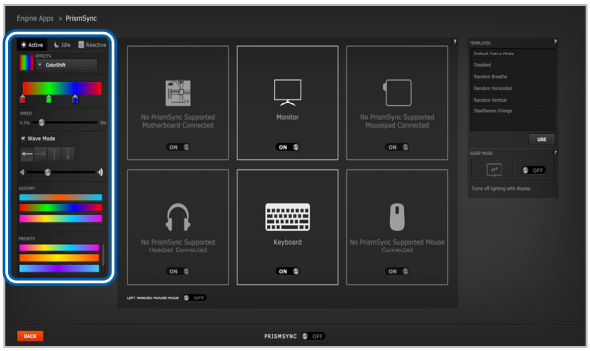
Here you will find a collection of all apps that work with GameSense. Click on **[CONFIGURE]** to get in the configuration panel. Below shows all applications that interact with your SteelSeries devices.



1. **PrismSync**
   Illumination and effect that span across all of your SteelSeries devices.
2. **Discord**
   Display custom effects on your devices from events in Discord. Notifications, users joining voice channel, self mute and more are supported.
3. **Audio Visualizer**
   Watch while you listen. Render your audio spectrum dynamically across supported Prism devices.
4. **ImageSync**
   Convert an animated GIF into an illumination effect for your keyboard.
5. **CS:GO**
   Use your SteelSeries hardware to display game state information from CS:GO.
6. **DOTA 2**
   Use your SteelSeries hardware to display game state information from DOTA 2.

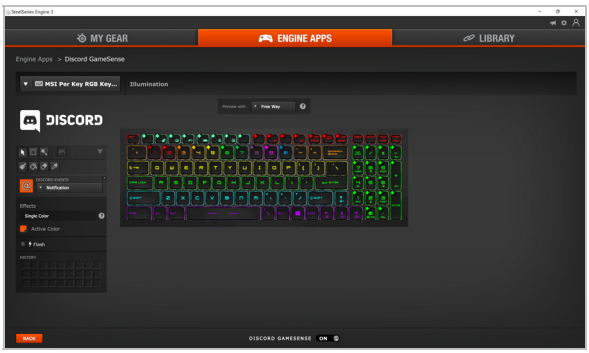
■ **PrismSync**

Sync dynamic RGB lighting effects between your devices in SteelSeries Engine 3. Choose from millions of colors and effects from reactive lighting to interactive lightshows. Adjust the lighting for **Active**, **Idle** and **Reactive** codition.



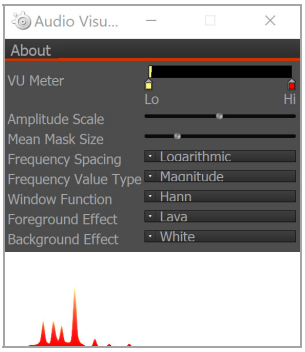
■ **Discord**

Customize lighting effects, haptic notifications, and your OLED screen to indicate real-time Discord notifications such as new messages, your mute status, who's talking, and more.



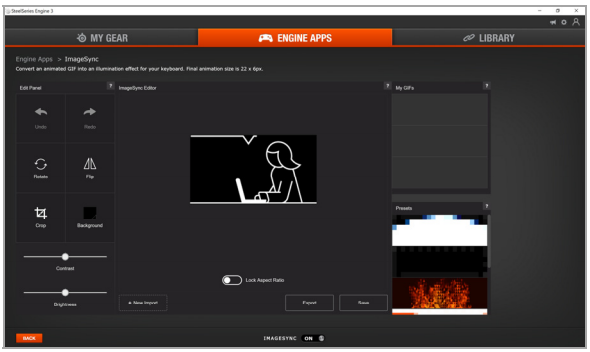
■ **AudioVisualizer**

Watch while you listen. Render your audio spectrum dynamically across SteelSeries Prism-enabled gear.



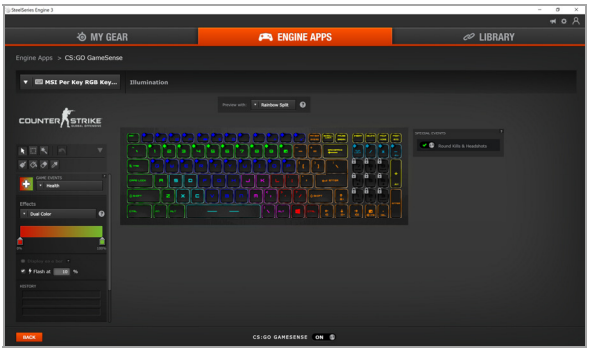
■ **ImageSync**

ImageSync is a first of its kind, programmable tool that creates the most complicated lighting effects in seconds. Quickly convert any animated GIF into an illuminaftion effect for your keyboard. Final animation size is 22 x 6px. Import a GIF to start.



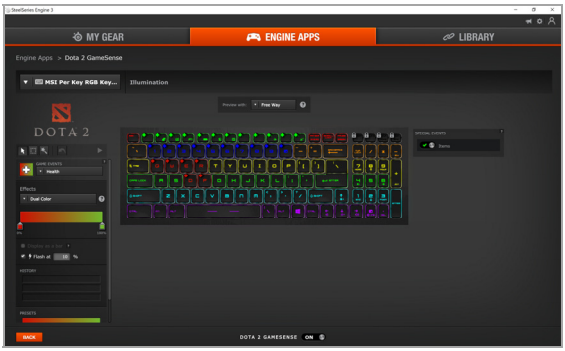
■ **CS:GO**

Use the tools to select the zones to adjust the effects to your personal taste.



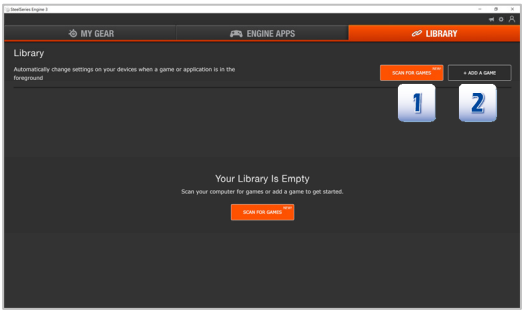
■ **DOTA 2**

Use the tools to select the zones to adjust the effects to your personal taste.



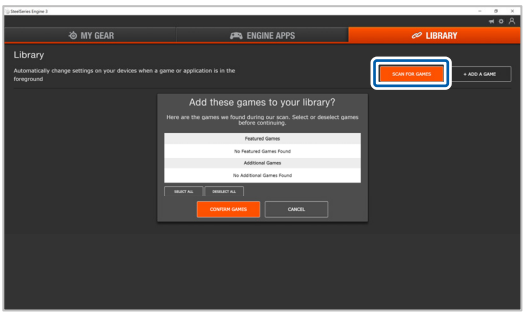
LIBRARY

The **LIBRARY** tab quickly set up your configuration to auto-launch with a game.



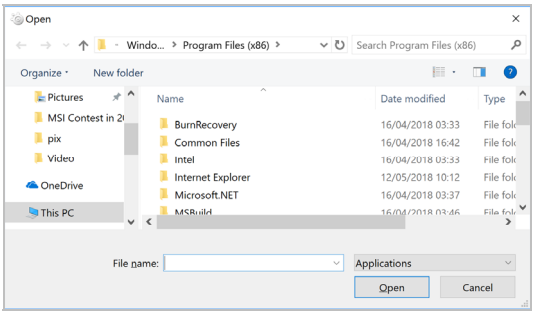
1. SCAN FOR GAMES

This feature automatically finds games installed through several of the most popular gaming services. Click **[SCAN FOR GAMES]** to select games in your library.



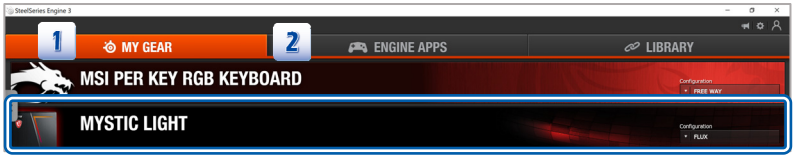
2. ADD A GAME

Featured Games, when added to your library, will also create default lighting configurations for per-key illuminated keyboards that highlight keys used by the game's default key bindings. Click **[ADD A GAME]** to add featured games and additional games in your library.



Mystic Light (GE series only)

The configurable lighting scheme integrates with the two speed stripes on the shell that have come to signify the GE range and will cooperate with a variety of popular games to provide color feedback and interaction.



1. **MY GEAR**

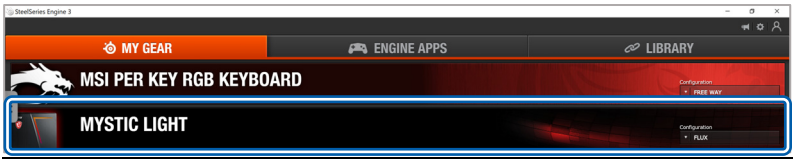
   The **MY GEAR** tab lists recognized SteelSeries devices which can be clicked to access advanced settings.

2. **ENGINE APPS**

   Engine Apps is a collection of in-game integration and purpose-built applications that deliver custom-designed benefits.

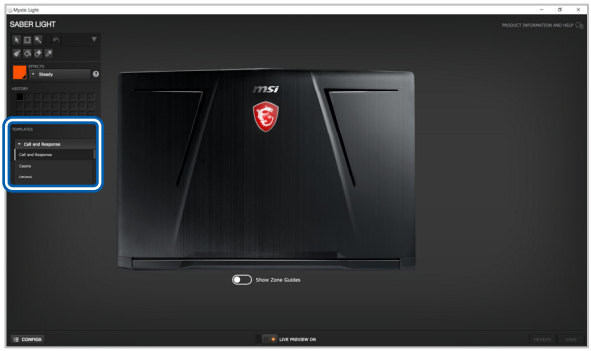
MY GEAR

Open SSE3, select **MY GEAR** tab, click **MYSTIC LIGHT** to configure.



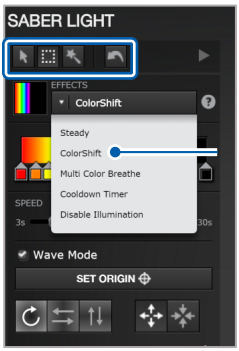
- **Templates change**

  Switch between different modes at the **TEMPLATES** scroll to can change the lighting with different pre-set templates.



■ **Effect Configuration**

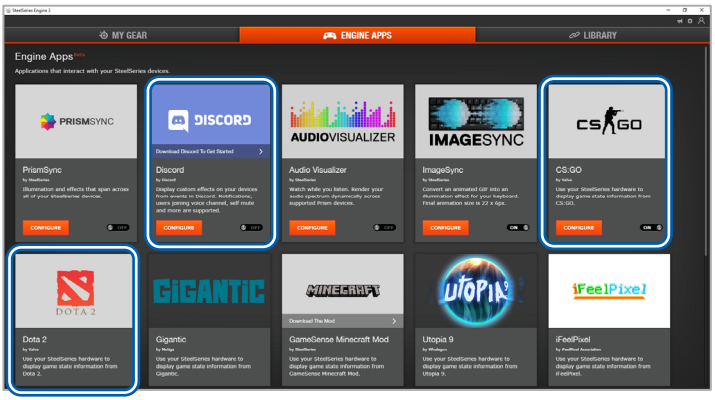
Use the tools to select the Zones to adjust, then select **ColorShift** for instance.



Tools

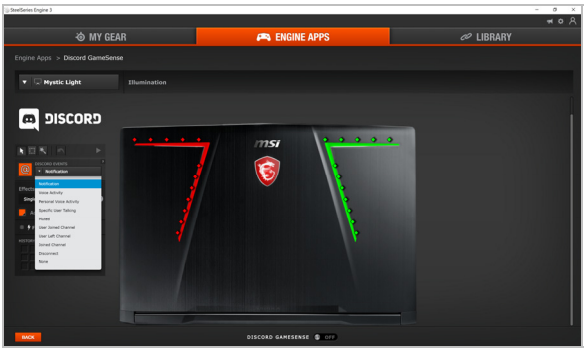
1. Color of the zones select will cycle through the colors on the bar.
2. Use **SPEED** to adjust how fast the color cycles.
3. Create more light patterns by using **Wave Mode** to adjust the origin, behavior and wavelength.

ENGINE APPS



- **DISCORD**

  Display custom effects on your devices from events in Discord. Notifications, users joining voice channel, self mute and more are supported.



■ **CS:GO**

Use the tools to select the zones to adjust the effects to your personal taste.

■ **DOTA 2**

Use the tools to select the zones to adjust the effects to your personal taste.

Note

❖ MSI True Color

MSI True Color 2.0 allows users to select the best color settings for the displayed contents. It can customize and control laptop panels for precise image presentation. When the application is launched, the display will automatically adapt to the assigned color settings.

When the True Color 2.0 application is successfully installed, its launching icon will appear in the system tray. Click on this icon to launch.

Basic & Advanced View Modes

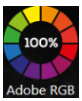
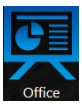
There are Basic View Mode and Advanced View Modes in True Color 2.0. Basic View Mode provides quick access to six View Modes. Advanced View Mode allows users to customize the user defined settings and give access to True Color's tools. Click on the triangle at the bottom of the application can switch between basic and advanced View Modes in True Color 2.0.

Basic View Mode

Advanced View Mode

About View Modes

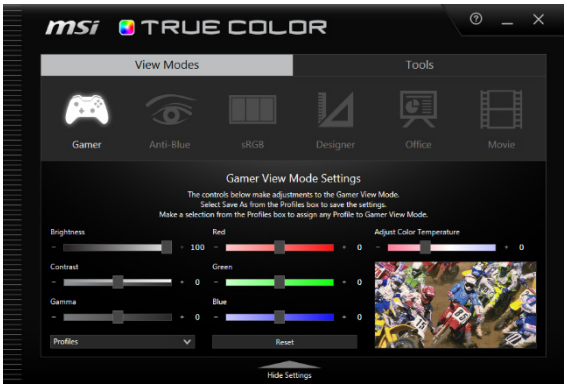
The following View Modes are supported: Gamer, Anti-Blue, sRGB,
Designer (model dependent), Adobe RGB(depend ob model), Office and Movie.

	For playing games.
	For reducing the amount of blue light that is emitted from the display to reduce eye fatigue.
	For accurate color when viewing images on websites.
	For designer applications. (depend on model)
	For accurate color when viewing images and other media created in the Adobe RGB color space. (depend on model)
	For office and productivity applications.
	For watching movies.

Hot Keys (for selected models only)

True Color 2.0 supports hot keys to launch the application or a control strip with access to View Modes.

Fn + Z : Press and hold the [Fn] key, then press the [Z] key to launch the True Color application. Or you can use True Color quick launch button to launch it.

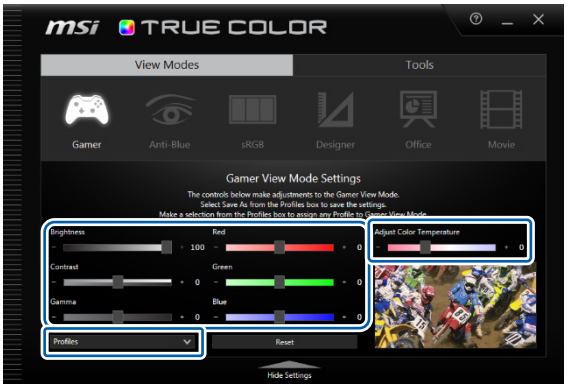


Fn + A : Press and hold the [Fn] key, and then press the [A] key to launch the mini View Mode to quickly switch between View Modes.

Note: This True Color quick launch button is for select models only.

Gamer

Gamer View Mode customizes to best suit the user's game preferences. Gamer View Mode settings can be saved, exported, or imported to share with other users. Any adjustments will be automatically saved to Gamer View Mode.



Gamer View Mode Settings

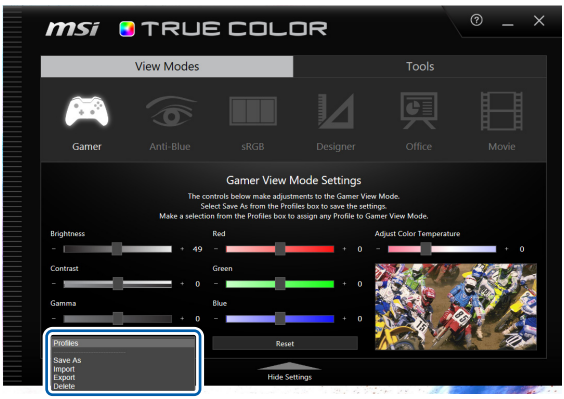
Use the respective slider to adjust their brightness, contrast, gamma, Red, Green and Blue value.

Reset

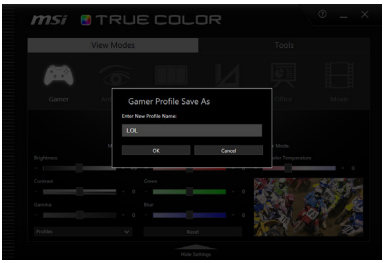
Press this key can reset the value of brightness, contrast, gamma, Red, Green and Blue to the default settings.

Profiles

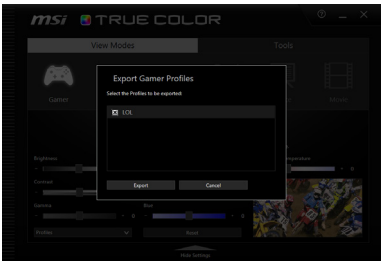
There are 5 options in Gamer profile drop down menu:



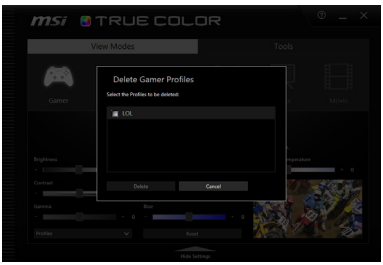
1. Save As: Save the current display adjustments and this setting can be applied to the display at any time.



2. Export: Select this option to choose which profile to export.



3. Import: Select this option will open the “Open” dialog which provides a left list of file names to import. Once imported, the profile name will appear in the drop down menu.



4. Delete: Delete the profile from the drop down menu.
5. Cancel: Close the dialog box.

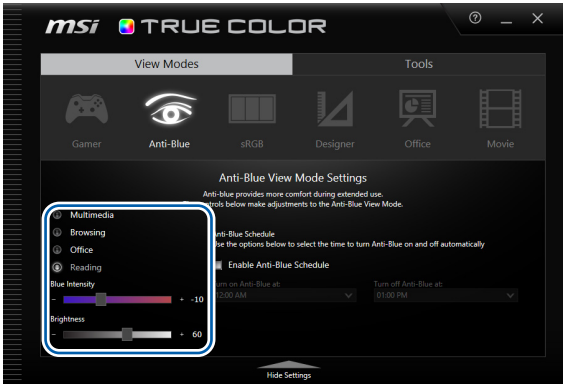
Note: User created profiles are only visible in the View Mode where they were created. Gamer profiles are only visible in the Gamer profile drop down menu. Designer profiles are only visible in the Designer profile drop down menu.

Adjust Color Temperature

Fine tunes the color temperature of the display.

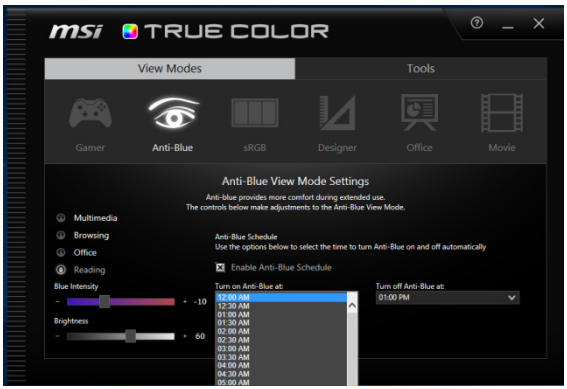
Anti-Blue

Anti-Blue View Mode reduces the amount of blue light that is emitted from the display and provides more comfort during extended use. Select any of the Anti-Blue View Modes setting will be automatically saved to Anti-Blue. It allows the user to adjust the blue intensity and brightness value in multimedia, browsing, Office or reading mode.



Anti-Blue Night Shift

Schedule feature allows users to set time to enable/disable anti-blue mode based on region & according to customers' habit.

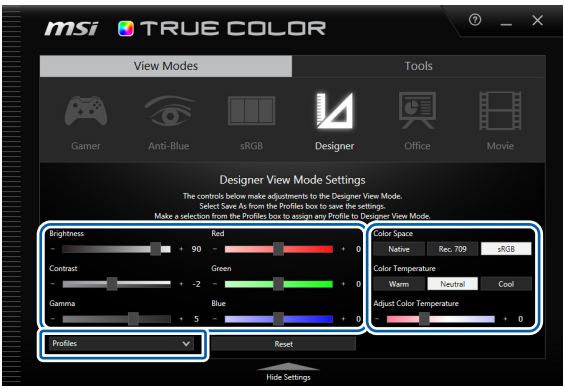


sRGB

sRGB View Mode accurate color when view images on the web. It allows the user to adjust the brightness value in sRGB settings, any change will be automatically saved to sRGB View Mode.

Designer (optional, the supported panel may vary from different model)

Designer View Mode customizes to best suit the user's design applications. Designer View Modes can be saved, exported, or imported to shave with other users. Any adjustments will be automatically saved to Designer View Mode.



Designer View Mode Settings

Model Settings

Use the respective slider to adjust their brightness, contrast, gamma, Red, Green and Blue value.

Reset

Press this key can reset the value of brightness, contrast, gamma, Red, Green and Blue to the default settings.

Profiles

There are four options in Designer profile drop down menu:

1. Save As: Save the current display adjustments and this setting can be applied to the display at any time.
2. Import: Select this option will open the “Open” dialog which provides a left list of file names to import. Once imported, the profile name will appear in the drop down menu.
3. Export: Select this option to choose which profile to export.
4. Delete: Delete the profile from the drop down menu.

Color Space

Select the color space of the display from Native, Rec.709 and sRGB.

Color Temperature

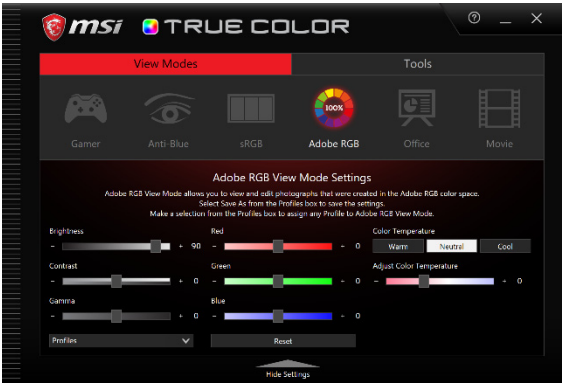
Select the display’s white point from Warm, Neutral and Cool.

Adjust Color Temperature

Fine tunes the color temperature of the display.

Adobe RGB (optional, the supported panel may vary from different model)

Adobe RGB View Mode accurate color when viewing images and other media created in the Adobe RGB color space. Adobe RGB View Mode can be saved, exported, or imported to share with other users. Any adjustments will be automatically saved to Adobe RGB View Mode.



Adobe RGB View Mode Settings

Model Settings

Use the respective slider to adjust their brightness, contrast, gamma, Red, Green and Blue value.

Reset

Press this key can reset the value of brightness, contrast, gamma, Red, Green and Blue to the default settings.

Profiles

There are four options in Adobe RGB profile drop down menu:

1. Save As: Save the current display adjustments and this setting can be applied to the display at any time.
2. Import: Select this option will open the “Open” dialog which provides a left list of file names to import. Once imported, the profile name will appear in the drop down menu.
3. Export: Select this option to choose which profile to export.
4. Delete: Delete the profile from the drop down menu.

Color Temperature

Select the display’s white point from Warm, Neutral and Cool.

Adjust Color Temperature

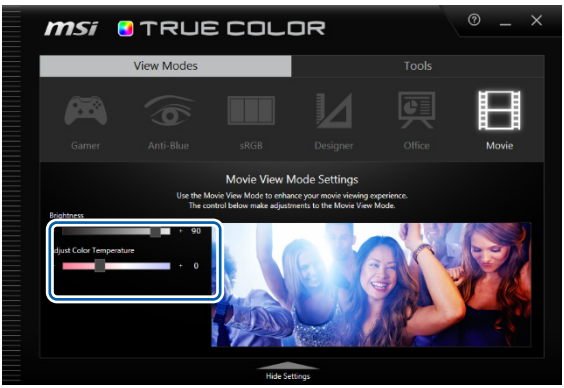
Fine tunes the color temperature of the display.

Office

Office View Mode is designed for productivity applications commonly used in the workplace. It allows the user to adjust the brightness value in Office settings, any change will be automatically saved to Office View Mode.

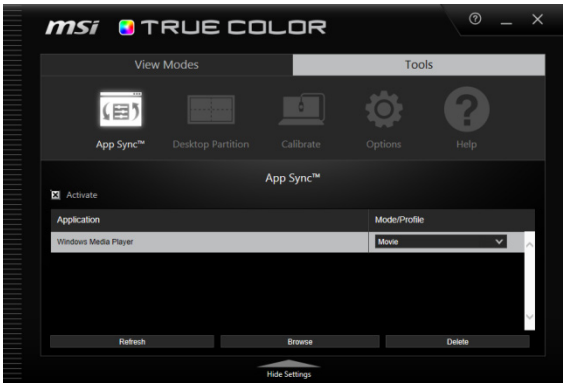
Movie

Office View Mode can enhance your movie viewing experience. It allows the user to adjust the brightness value in Movie settings, any change will be automatically saved to Movie View Mode.



Tools- App Sync™

There are 4 tools in True Color: App Sync™, Desktop Partition, Options and Help. You can change the mode/profile of any respective activated application. This list allows the user view different content correctly and easily with the appropriate mode/profile. Press “Refresh”, “Browse” or “Delete” key can change the setting of App Sync™. Check or uncheck “Activate” can turn on or off App Sync™.

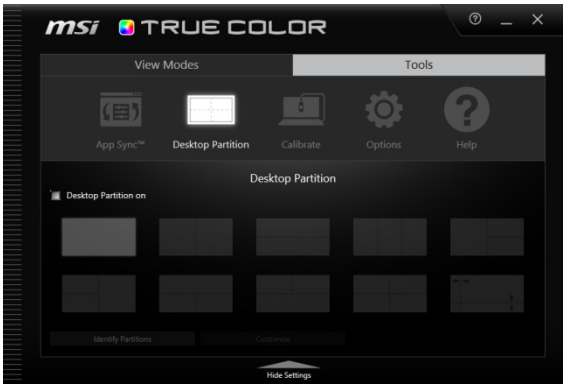


To Assign a Mode/Profile to an Open Application

1. Open the App Sync Pane.
2. Select the Refresh button.
3. The application name will appear in the list of entries.
4. Locate the application and select the drop down menu under Mode/Profile.
5. Select the Mode/Profile name to be assigned.

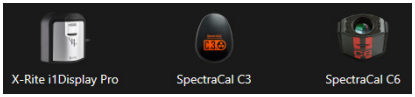
Desktop Partition

Desktop Partition is a simple utility that organizes the display in predefined regions. Dragging a window to any region automatically aligns the window for better organization and less desktop clutter. Windows can be sent to any region across multiple displays with a simple mouse click. “Customize” button allows a user to define the location of the splits, press it and click to define the regions.

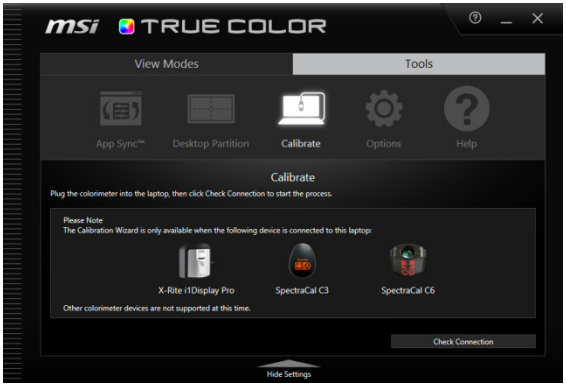


Color Accuracy Self-Calibration

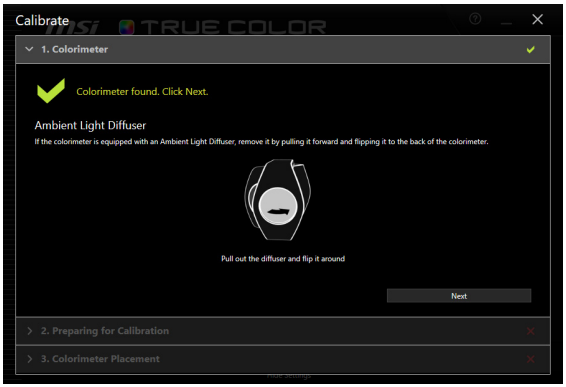
Display panels will get less accurate as time goes on. True Color 2.0 allows users to self-calibrate the display. Users can use the following colorimeters:



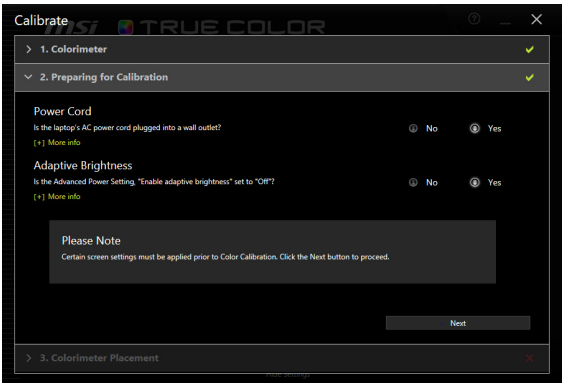
Follow the steps in True Color 2.0, users can easily calibrate their panels.



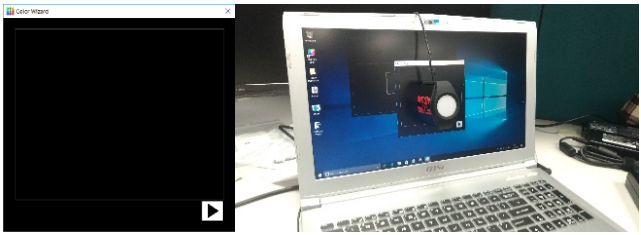
1. Connect the colorimeter



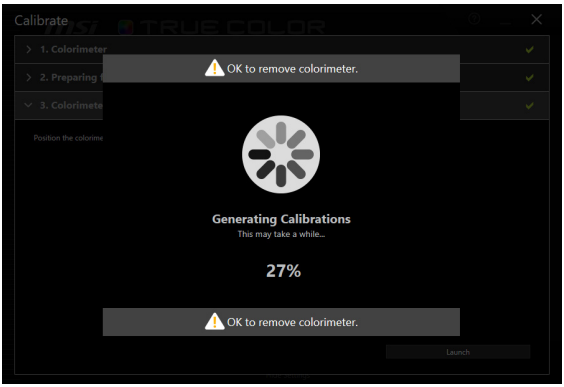
2. Make sure DC-in and power options are ready



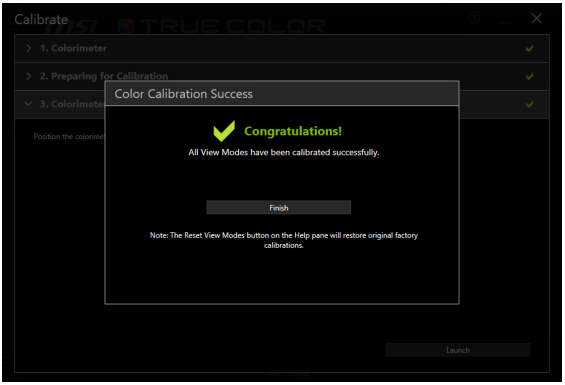
3. Put the colorimeter in the center of below screen



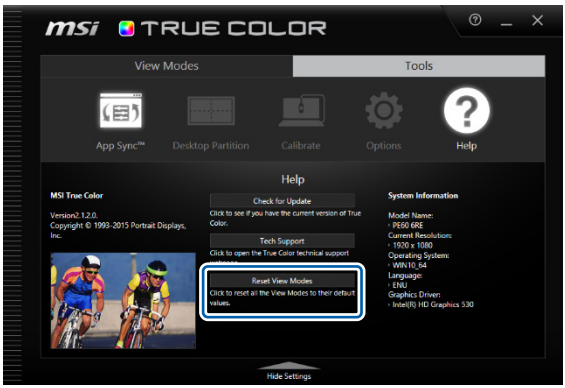
4. Do the calibration



5. Finish the calibration

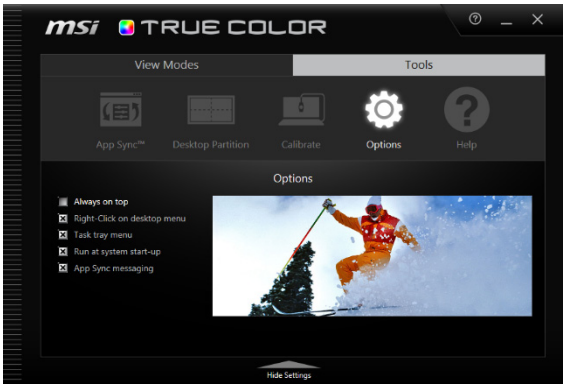


After the calibration, True Color 2.0 will automatically apply the new calibration data. If users want to apply old calibration data, they can also reset in Tools/Help.



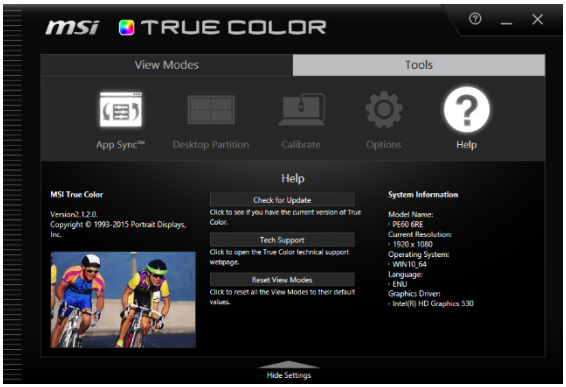
Options

In the left list of the following menu, options in use will have an "X" in the check box. Move the cursor over the box to check /uncheck can turn on or off the option.



Help

Provides support information for True Color. Press “User Manual” can open the related user manual of True Color; click ”Check for Update” can update the current version to the latest version; press “Tech Support” can open the website of True Color; or press “Reset View Modes” can reset all the View Modes to their default values.

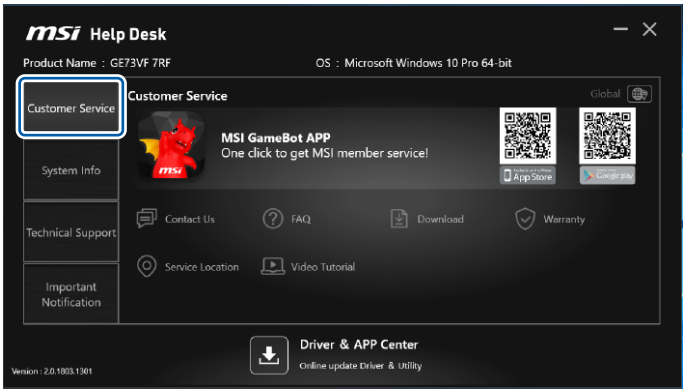


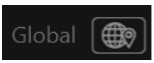
Note

❖ Help Desk

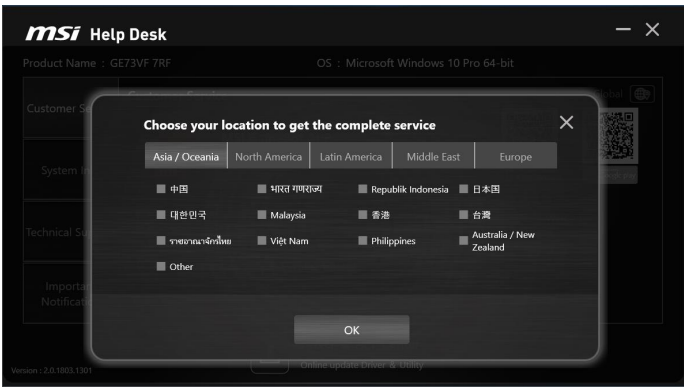
Customer Service

C ustomer Service allows users to get device information, receive the latest news, technical support and important notices. When Help Desk application has been installed successfully, you can open it from the Windows Start menu. When executing Customer Service application, the device will scan to check for new important notices and get the latest technical support information.





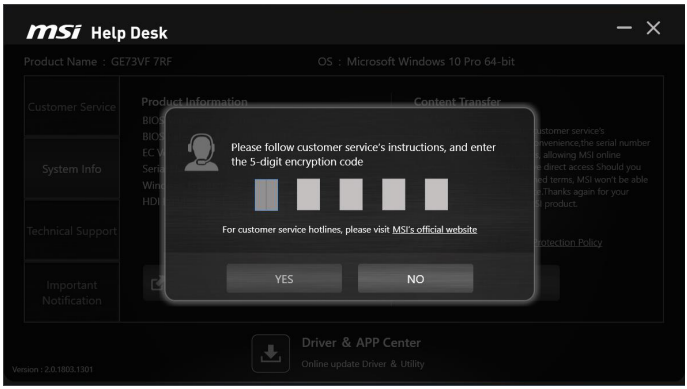
Choose your own location to get MSI Service.



System Info

The System Info page separated into 2 columns.

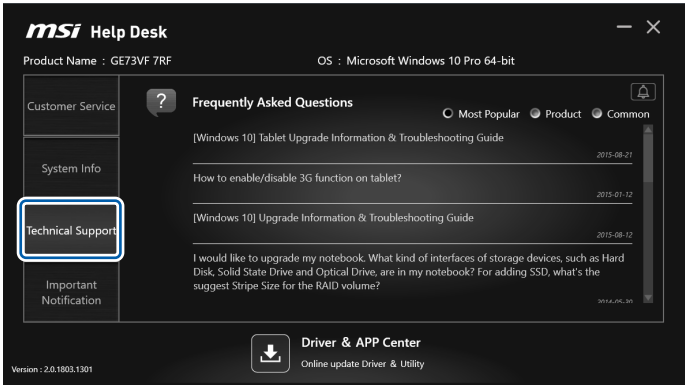
- Left column shows system information about this machine and user can click on “Export System Info” to export to a text file as attachment.
- Right column shows Content Transfer. If user click on “Content Transfer” will popup input window, when user input right 5-digit encryption code provided by customer service, after receiving users’ agreement Help Desk can collect information of users’ purchased product to provide efficient solutions.

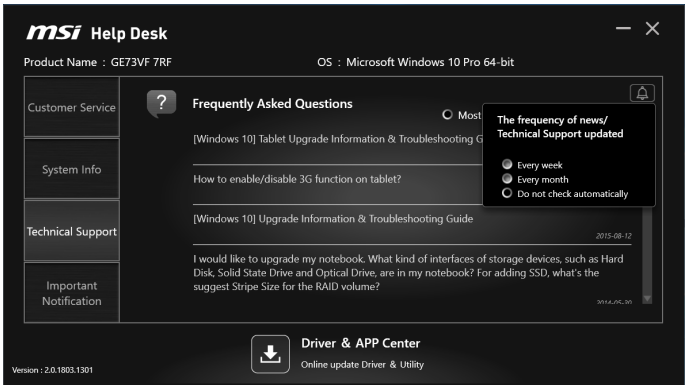


Technical Support

The Technical support page lists questions for specific product (which is the current machine) and common questions for all products. Each item in the list is a clickable hyperlink to open a webpage of that Technical support record.

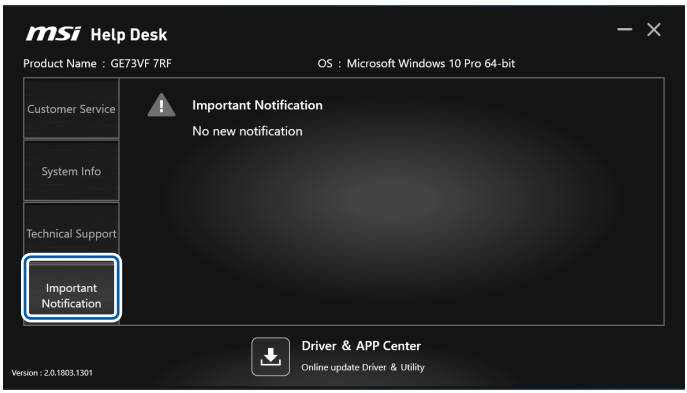
The bottom of right shows current setting of frequency to check for updates. User can change setting by click on the radio button.





Important Notification

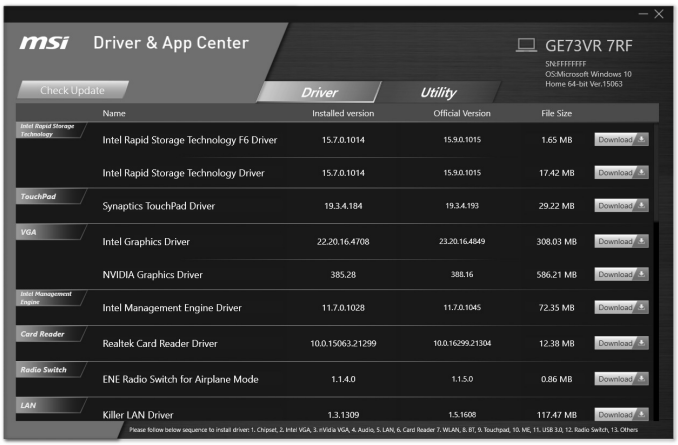
The Important Notification page lists of important questions for specific product (which is the current machine). Each item in the list is a clickable hyperlink to open a webpage of that notification record.

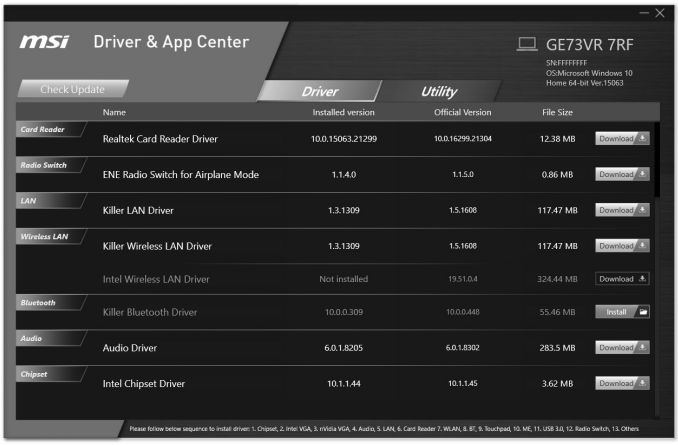


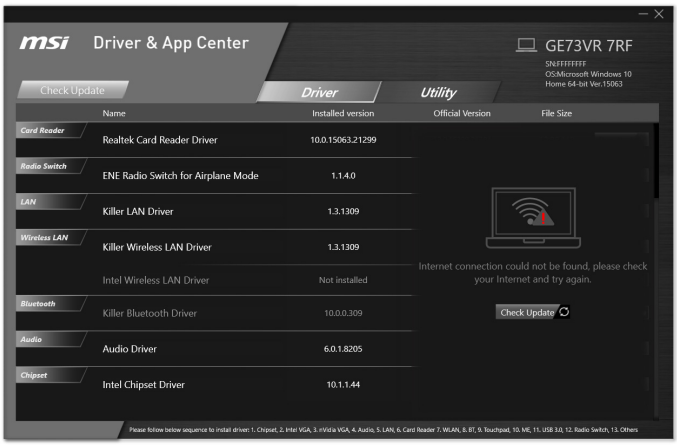
Driver & APP Center

The Driver & APP Center page allow users to check latest updated information of Driver and Apps from MSI official website.

- Column “Download” which users can click on shows the official version has updated.
- Column “Download” which cannot be clicked shows the machine has already installed the latest version or uninstalled, users can re-download Driver or App to use.
- Column “Install” shows the download progress is completed and can click on to install.
- On the right side of column “Install” click on to open the download files for users to unzip and install.
- The “Check Update” bottom and previous loaded files shows if the network has error.

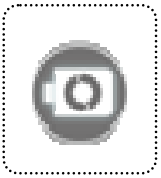



msi
Driver & App Center
GE73VR 7RF
SN:FFFFFFFF
OS:Microsoft Windows 10
Home 64-bit Ver.15063
Check Update
Driver
Utility
Name
Installed version
Official Version
File Size
Card Reader
Realtek Card Reader Driver
10.0.15063.21299
10.0.16299.21304
12.38 MB
Download
Radio Switch
ENE Radio Switch for Airplane Mode
1.1.4.0
1.1.5.0
0.86 MB
Download
LAN
Killer LAN Driver
1.3.1309
1.5.1608
117.47 MB
Download
Wireless LAN
Killer Wireless LAN Driver
1.3.1309
1.5.1608
117.47 MB
Download
Intel Wireless LAN Driver
Not installed
19.51.0.4
324.44 MB
Download
Bluetooth
Killer Bluetooth Driver
10.0.0.309
10.0.0.448
55.46 MB
Install
Audio
Audio Driver
6.0.1.8205
6.0.1.8302
283.5 MB
Download
Chipset
Intel Chipset Driver
10.1.1.44
10.1.1.45
3.62 MB
Download
Please follow below sequence to install driver: 1. Chipset, 2. Intel VGA, 3. nVidia VGA, 4. Audio, 5. LAN, 6. Card Reader 7. WLAN, 8. BT, 9. Touchpad, 10. ME, 11. USB 3.0, 12. Radio Switch, 13. Others


msi
Driver & App Center
GE73VR 7RF
SN:FFFFFFFF
OS:Microsoft Windows 10
Home 64-bit Ver.15063
Check Update
Driver
Utility
Name
Installed version
Official Version
File Size
Card Reader
Realtek Card Reader Driver
10.0.15063.21299
Radio Switch
ENE Radio Switch for Airplane Mode
1.1.4.0
LAN
Killer LAN Driver
1.3.1309
Wireless LAN
Killer Wireless LAN Driver
1.3.1309
Intel Wireless LAN Driver
Not installed
Bluetooth
Killer Bluetooth Driver
10.0.0.309
Audio
Audio Driver
6.0.1.8205
Chipset
Intel Chipset Driver
10.1.1.44
Internet connection could not be found, please check your Internet and try again.
Check Update
Please follow below sequence to install driver: 1. Chipset, 2. Intel VGA, 3. nVidia VGA, 4. Audio, 5. LAN, 6. Card Reader 7. WLAN, 8. BT, 9. Touchpad, 10. ME, 11. USB 3.0, 12. Radio Switch, 13. Others

❖ MSI Battery Calibration

When the MSI Battery Calibration application has been installed successfully, the Battery Calibration launch icon will appear in the MSI folder of the Start menu. Click on this icon to launch the Battery Calibration application. It is recommended to go through the Battery Calibration process every 3 months to have the best battery life.



Starting the Battery Calibration Process

1. Left click on the Battery Calibration launch icon in the MSI folder of the Start menu, and the Battery Calibration main display will appear.
2. If you are using the Battery Calibration process for the very first time, there will be no date information for the last calibration shown on the Stats field.
3. Before starting the Battery Calibration process, it is required to check that the following conditions:
   a. The AC/DC adapter must be connected.
   b. The battery must be installed properly.
   c. No any other application is activated.
   A red signal will appear, if any condition listed above does not meet the requirement.
4. Left click on the “Start” icon to start the Battery Calibration process.

5. The calibration process status will be shown on the display telling users that the system is now charging, recharging, or discharging.

6. Calibration completed.

Note: MSI recommends doing Battery Calibration every 3 months to have the best battery life.

7. If the calibration process kept going failed, please replace the battery only with the same or equivalent type recommended by the manufacturer. Consult an authorized retailer or service center for further information and assistance.

Warning Notification

1. If the AC/DC adapter is disconnected during the calibration process, a warning notification will appear.
2. Please reconnect the AC/DC adapter to continue the calibration process within 15 seconds; otherwise the calibration process will stop automatically.

3. If the battery of the notebook is not installed properly or removed during the calibration process, the warning notification will appear.
4. Please double check that the battery is installed properly, and then press the Try Again button to continue the calibration process.

Note

❖ Recovery Image Backup Tool

Recovery Image Backup Tool, the utility designed to backup the recovery image to blank DVD disks, a USB flash disk or ISO files. They can be used to recover the system to manufacturer's default settings when it is needed.

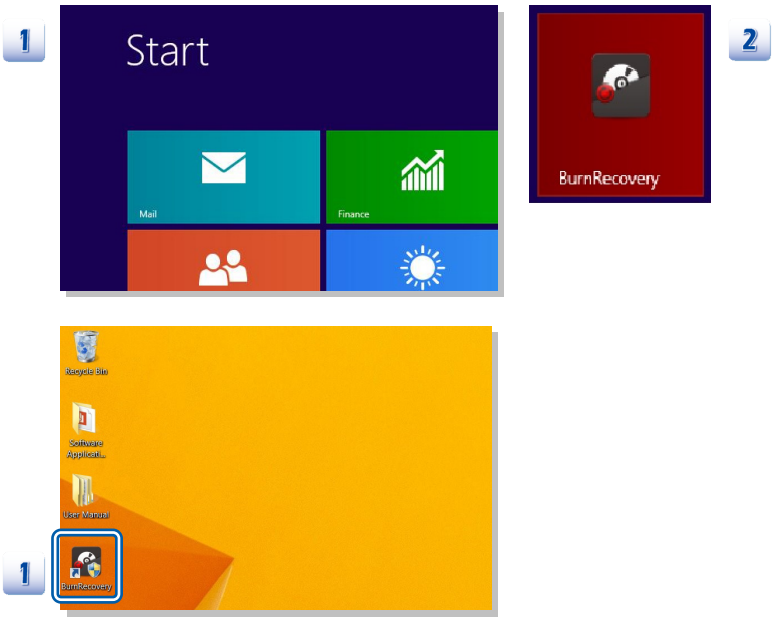
The illustrations and instructions provided here are for reference only and may vary from different operating system supported.

Usage of this application on any product with no authorization may be prohibited.

Note: For more detailed information about using Recovery Image Backup Tool, please refer to the User's Manual of System Recovery.

Activating the Utility

1. Find the shortcut of BurnRecovery on the Start Screen or Windows desktop.
2. Double click on the shortcut to activate the Recovery Image Backup Tool.
3. Main Selection page of the Recovery Image Backup Tool.



msi RECOVERY IMAGE BACKUP
The recovery storage device can restore your system back to default settings.
If you want to create a recovery storage device now,
please follow the instructions to proceed.
* Recovering with the recovery storage device will format your hard drive.
Please click (next) to continue
Next

3

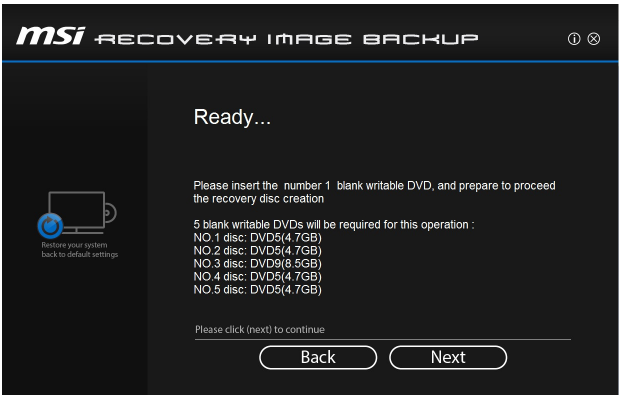
msi RECOVERY IMAGE BACKUP
Restore your system back to default settings
Recovery disc
USB
ISO
Create and burn a recovery disc
Please click (next) to continue
Next

Create and Burn a Recovery Disk

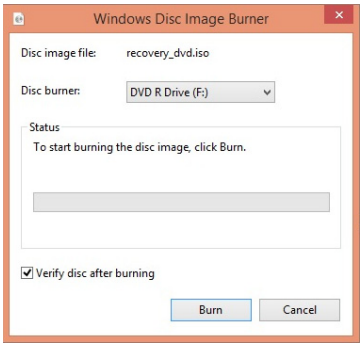
1. To create and burn a Recovery Disk, select **[Recovery Disk]**, and then follow the on-screen instructions to continue.
2. Prepare the number of the writable disk as requested.
3. Place the disk into the optical drive device, and then select **[Burn]**.
4. Note: Closing the other applications while burning the recovery disk is suggested.
5. Click **[Close]** when a disk is successfully created.
6. Click **[Next]** to continue the procedure of creating and burning recovery disks.
7. Exchange and place the rest disks into the optical drive device as instructed.
8. All recovery disks created and burned successfully.

1

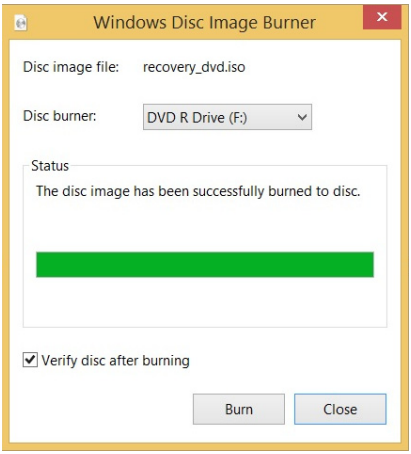
2



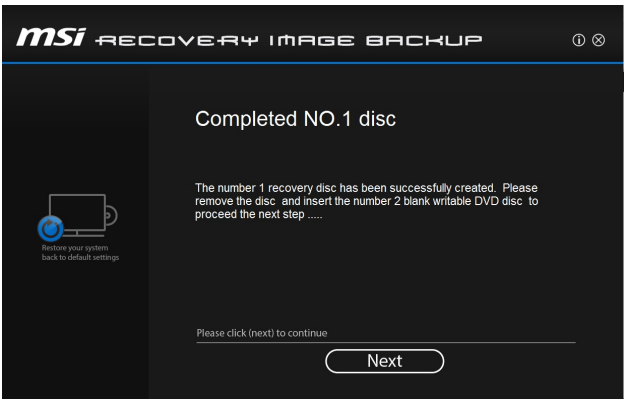
3


Windows Disc Image Burner
Disc image file: recovery_dvd.iso
Disc burner: DVD R Drive (F:)
Status
To start burning the disc image, click Burn.
Verify disc after burning
Burn
Cancel

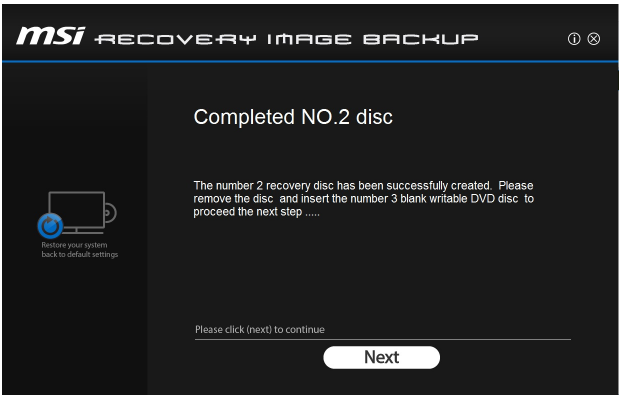
4


Windows Disc Image Burner
Disc image file: recovery_dvd.iso
Disc burner: DVD R Drive (F:)
Status
The disc image has been successfully burned to disc.
Verify disc after burning
Burn
Close

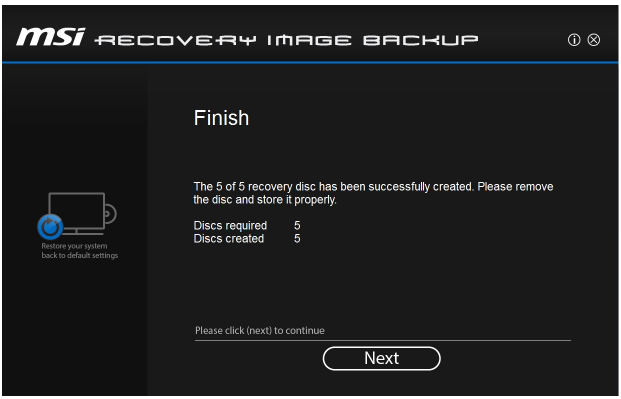
5


msi RECOVERY IMAGE BACKUP
Completed NO.1 disc
The number 1 recovery disc has been successfully created. Please remove the disc and insert the number 2 blank writable DVD disc to proceed the next step .....
Restore your system back to default settings
Please click (next) to continue
Next

6


msi RECOVERY IMAGE BACKUP
Completed NO.2 disc
The number 2 recovery disc has been successfully created. Please remove the disc and insert the number 3 blank writable DVD disc to proceed the next step .....
Restore your system back to default settings
Please click (next) to continue
Next

7


msi RECOVERY IMAGE BACKUP
Finish
The 5 of 5 recovery disc has been successfully created. Please remove the disc and store it properly.
Discs required 5
Discs created 5
Restore your system back to default settings
Please click (next) to continue
Next

7

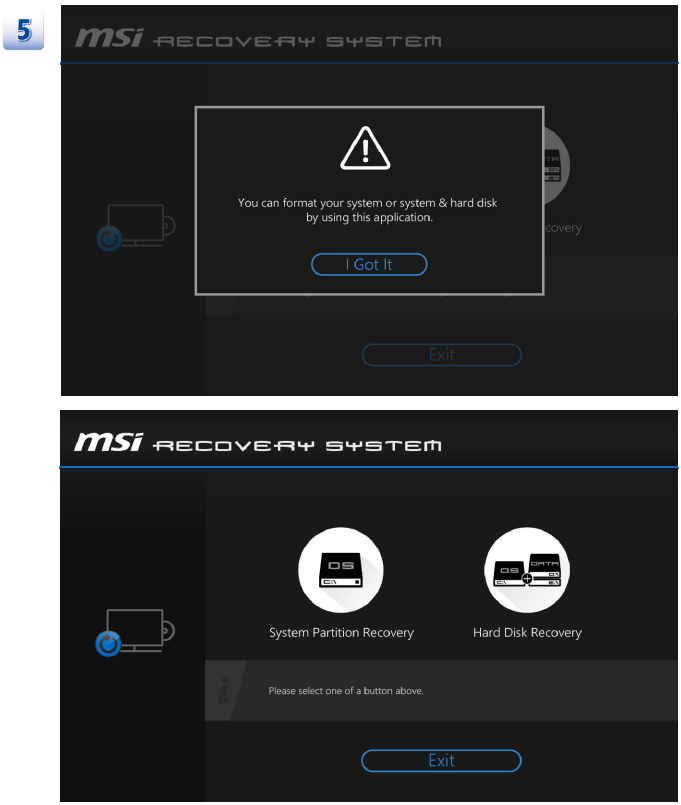
msi RECOVERY IMAGE BACKUP
Finish
The recovery disc creation has been completed.
Do you want to remove the temporary files?
Restore your system back to default settings
Back
Finish

Recovering the System

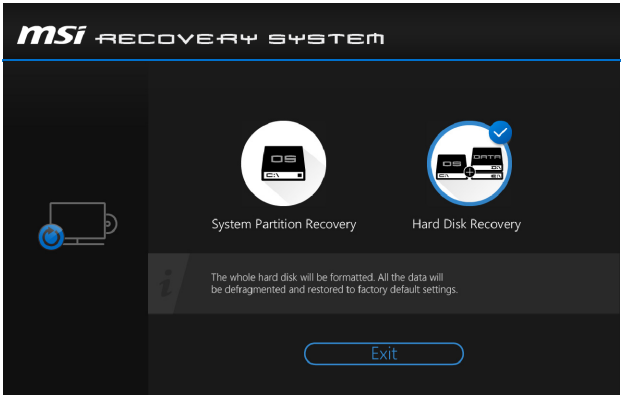
When the hard drive and system encountered non-recoverable problems, it is always recommended to perform the System Recovery Function with F3 Hotkey first.

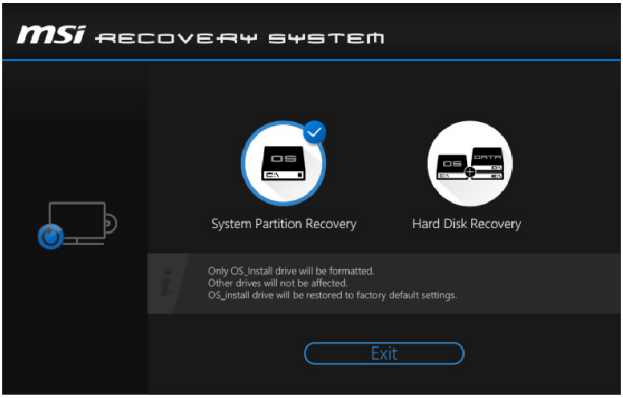
If the system is unable to recover to the manufactory default settings with F3 Hotkey, follow the instructions below to proceed the recovery function with the DVD recovery disks or USB flash drive.

1. Insert the DVD recovery disks to your computer.
2. Restart the computer.
3. Press the **[F11]** hotkey on the keyboard while the computer is re-booting.
4. Select to boot from **[DVD Recovery disk]**, and press **[Enter]** to confirm the selection, and then follow the on-screen instructions to continue.
5. Click **[I Got It]** to continue.

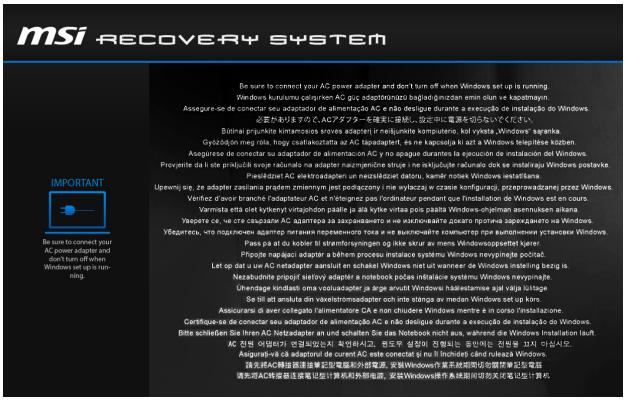


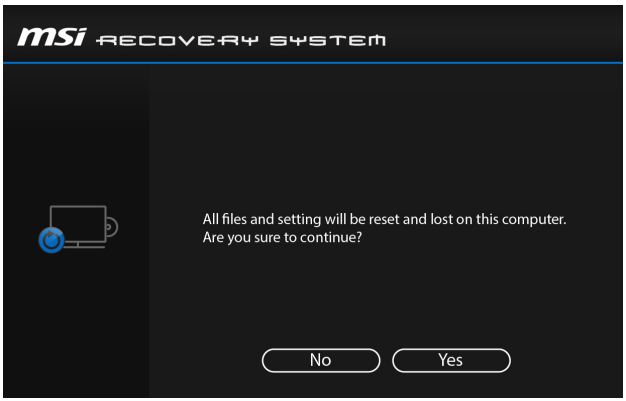
6. Select **[Hard Disk Recovery]** to restore the hard disk to the manufactory default settings.
7. Select **[System Partition Recovery]** to reset the hard disk drive partition where the operating system installed to the manufactory default settings.

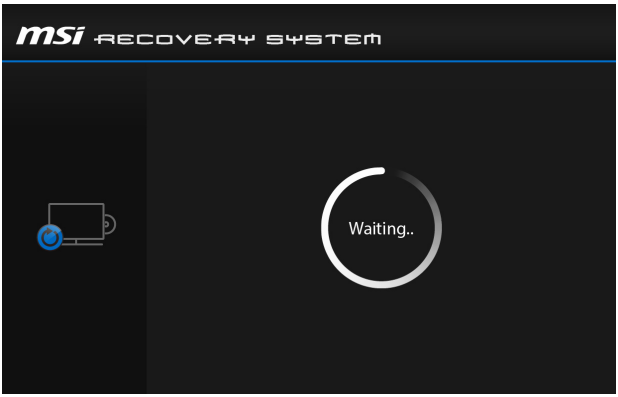




8. AC power is required while proceeding the System Recovery Function. Assure that the AC power is connected to the notebook before moving forward to the next step.
9. The system recovery process will format the hard disk drive; make sure that the important data has been backed up before continuing the process.
10. Follow the on-screen instructions to continue.






msi RECOVERY SYSTEM
Waiting..

msi RECOVERY SYSTEM
0:15
Elapsed Time
Progress:
Operation System: Windows 8

msi RECOVERY SYSTEM
Windows 8 Recovery is successful
please press "OK" and restart your system.
Ok

Note