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: <u>http://support.msi.com/</u>

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

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 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.

MSI Battery Calibration94

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.

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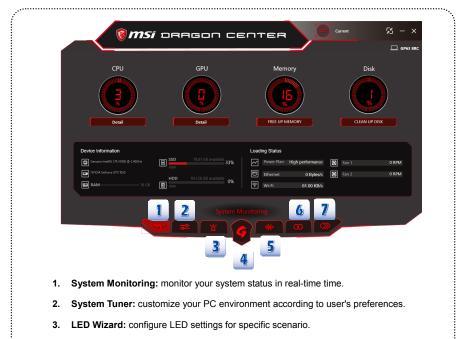
MSI Dragon Center 2.0

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



- 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.
- Mobile Center: user can remote control your MSI PC/NB over WiFi from your mobile device.
- 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.

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	System M	onitoring		

- 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 🚺 1

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to switch from System Monitoring to System Turner.

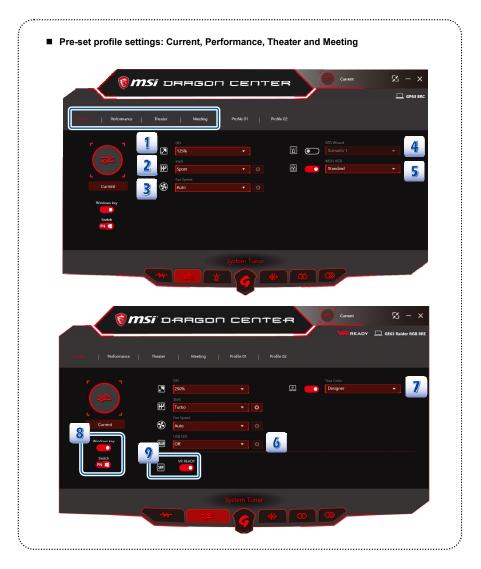


2. Click drop-down menu to change among six profiles.



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**.



- 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.
- USB LED: select to enable USB port LED. This function is only available for selected models.
- True Color: select to activate True Color configuration. This function is only available for selected models.
- Keyboard configuration: disable or enable the Windows key and swap <u>FN</u> and <u>Windows</u> keys.
- 9. VR Ready: disable or enable the VR Ready key.

Note: Some functions are only available for selected models.



Shift

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

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.

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Fan Speed

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

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					GP63 SRC
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Current Widews thy Seasa 212	DT Type Sear For Sear Anto Auto Auto Coder Boost Coder Boost	•	1 C	LID Word Scenario 1 MITA ROB Standard	
		System Tuner			

- 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.

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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.

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LED Wizard	Security 1	Scenario 2 Scenario 3	Scenario 4	Soenario 5		🖵 GP63 BRC
LED Mode Normal Sleep Mode Setting LED Off Binghtness	•				Color	
		┉╶ӕ	LED Wizard	•		

- 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: <u>LED Off</u>, <u>Breathing</u> and <u>Keep Original</u>.
- 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: <u>Standard, Anti Blue, Gaming, Movie, Office</u>, and <u>Light</u>.

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Current Series 272	E E	DPI 175% Shit Turbo Fan Speed Advanced		1 2 2	MSI's RGB	·
			System Tur		0	

USB LED

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

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	Current Current	250%	•	faka ·	
		System Tu	ner		
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True Color

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

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Keyboard Configuration

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

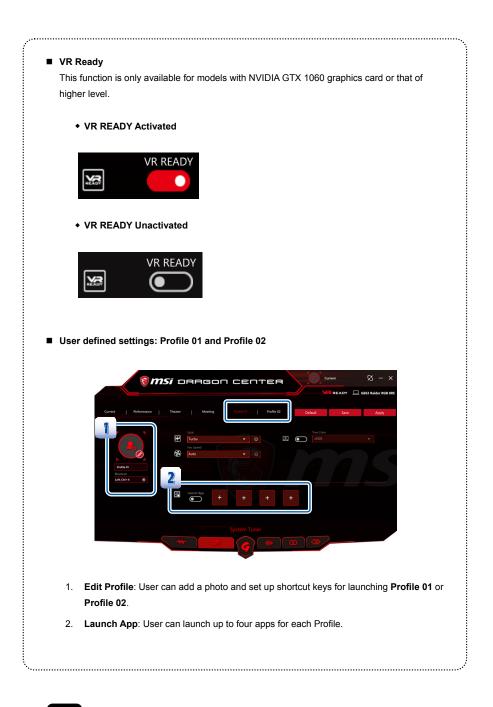
+ Enable or disable Windows key



Swap Fn and Windows key



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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.

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Gaming Mode
•
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.

- 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.

VoiceBoost 📕 💿			•
VOP Let Series par VOP scheme Serger ▲ Present um any part velhauer Het	Sipe	VOIP Setting	1 40% VCIP

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.

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	Mobile Connection				<u> </u>	
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	Connect your PC and models d Trans connection fields please officers	wicks with the Lama Gonald. make sure Dragon Center Init Stocked by Windo M	ans French and anti-virus obile Center			
	Editor teelSeries devices a button. They can	-				

Download

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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.

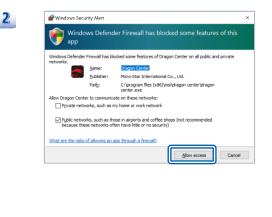


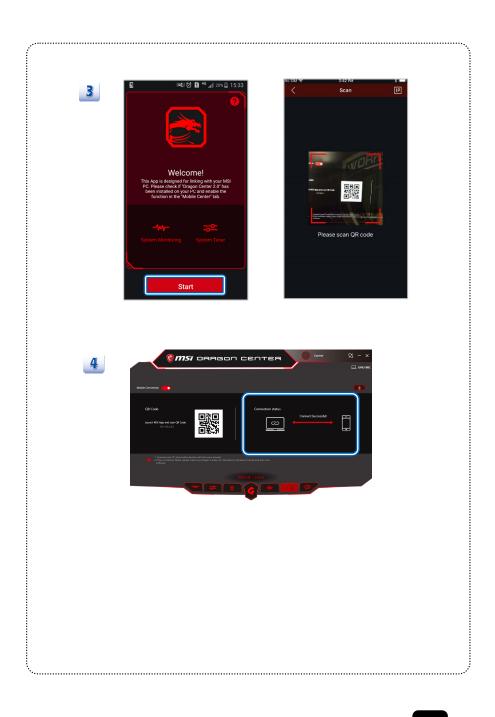
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Configure the Mobile Connection

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







Tools & Help

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

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Insi Burnaecovery - 0 ×	
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.	
please follow the instructions to proceed. * Recovering with the recovery storage device will format your hard drive.	
Please click (next) to continue	
(<u>Next</u>)	

User Manual

Click to locate User Manual for your NB/PC.

Thi	s PC > Windows (C:) > User Manual		
^	Name	Date modified	Туре
	Software Application Manual	10/23/2017 11:45	File folder

<u>Help Desk</u>

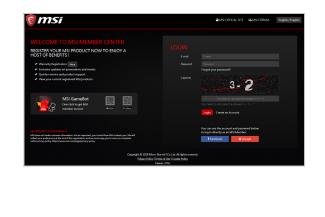
Click to find System Info, FAQ, Online Help and Important Notification.



Product Registration

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





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



Feature Navigator

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



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2. Recommended Apps

You can add MSI softwares here.

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						MSI APP	V	
						📰 SCN		
					orce Experience	GeF		
	Add	A	Cancel			Other API		

Profile Editing

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

Recommended Apps	^		
		.	Launch
	SCM	NVIDIA	Delete
		GeForce Exp	

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

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* MSI Dragon Dashboard 2.0

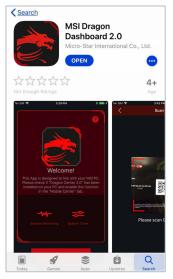
This app is designed to connect your personal computer, notebook to your mobile device remotely. Users will be able to enjoy various customized functions offered by MSI.



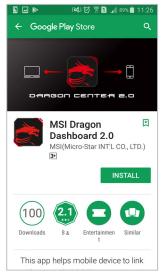
Dragon Dashboard 2.0

- 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.

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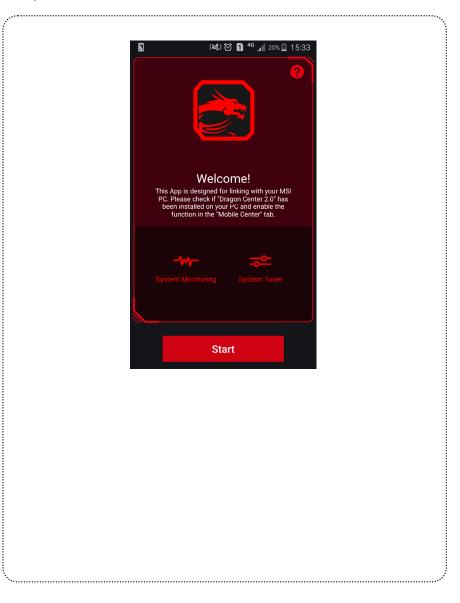
App Store



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.
- When your NB/PC indicates successful connection status, you are ready to get total control over your NB/PC.



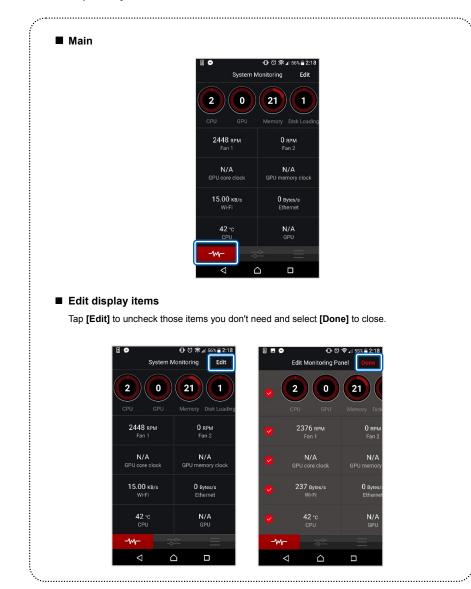






System Monitoring

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



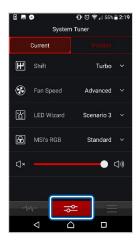
System Tuner

This function show Users are allowed to adjust various settings from the dropdown list. Note: Some functions are only available for selected models.

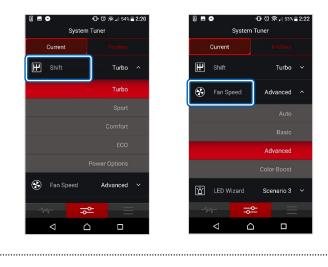
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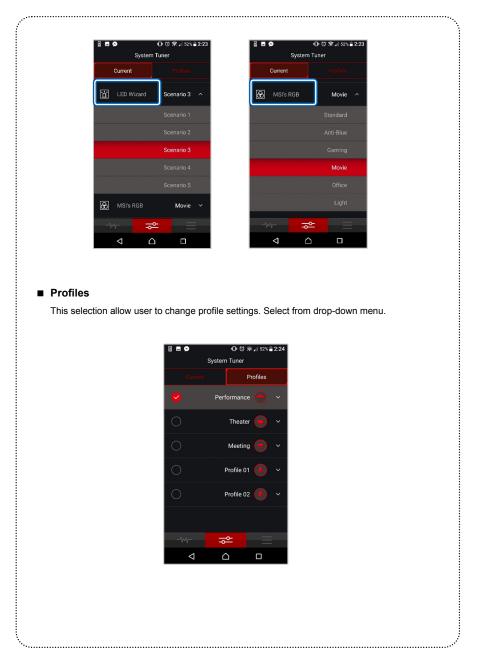
Current

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



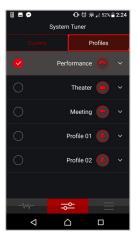
Available options: Shfit, Fan Speed, LED Wizard and MSI's RGB.





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: <u>Rate APP</u> and <u>MSI Forum</u>.





- 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		

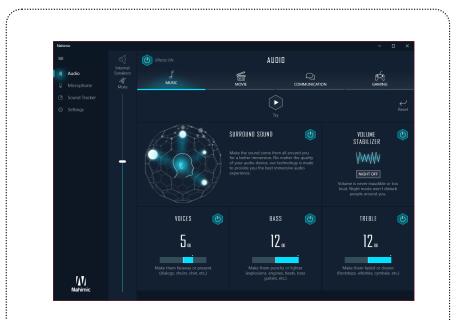
Nahimic 3

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.

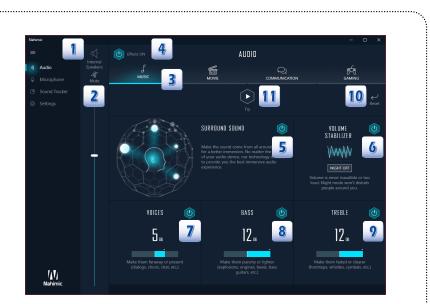


Main Window

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.

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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.

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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.

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Sound Tracker

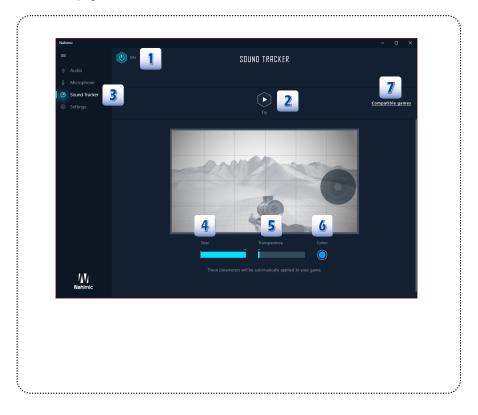
The Sound Tracker is an FPS oriented feature that provides a visual indication localizing the sources of the sounds while in a game.

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.

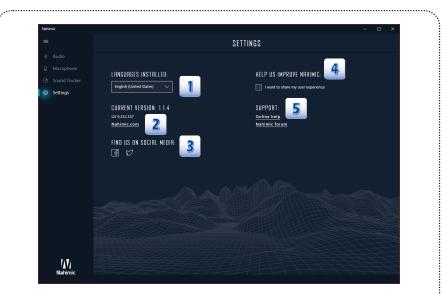
6. Color

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

eelSeries Engine 3						- a ×
1 io N	IY GEAR	2	🙉 ENGINE APPS	3	🖉 LIBRARY	#¢A
MSI PE	R KEY RGB KEYB	BOARD			Configuration	

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.

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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.



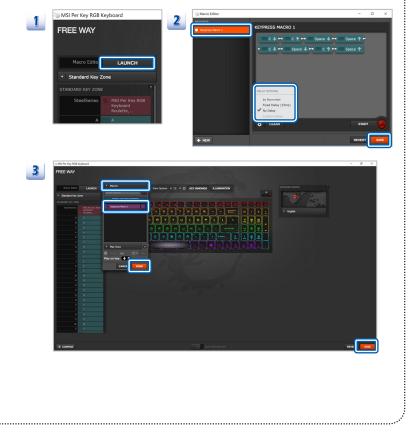
- Macro Editor: SteelSeries has a dedicated macro manager that you can launch by hitting the button on top of the list of keys. This is where you can save or remove macros.
- 2. **Configs:** You can also open a configuration window on the left, where you can access, create and edit your various profiles.
- 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.
- 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.
- 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

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- 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.

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CONFIGS

Click [CONFIGS] to find out more available configurations.

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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.

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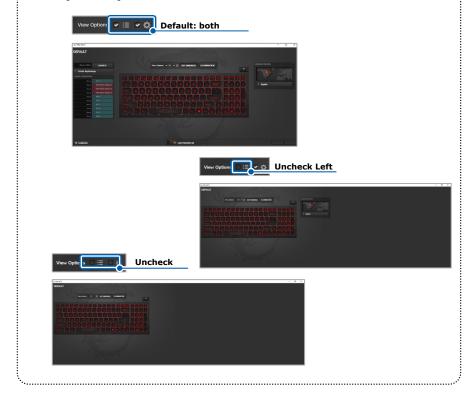
KEYBOARD REGION

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



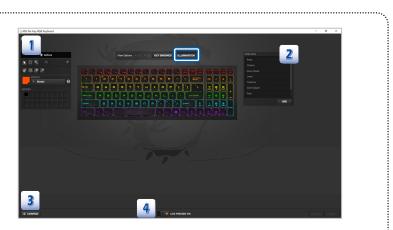
View Options

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



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.

literally config designated ke	bomization s on the left of the Window, you can gure each and every key. Select the ey(s), area, or adjacent keys with the s, then choose the color you want to
<u>Tools</u>	
k	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.
5	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.
7	Effect Picker: Click on a zone to select its effect settings without changing zone selecting.

Effects

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



- 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



<u>Plain</u>



Rainbow Split

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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.



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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.

SteelSeries Engine 3		
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AudioVisualizer

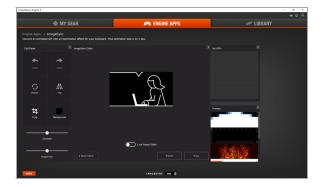
Watch while you listen. Render your audio spectrum dynamically across SteelSeries Prism-enabled gear.

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About			
VU Meter	Lo		Hi
Amplitude Scale		•	
Mean Mask Size			
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Window Function	• Hann		
Foreground Effect	• Lava		
Background Effect	• White		
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ImageSync

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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.

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DOTA 2

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

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LIBRARY

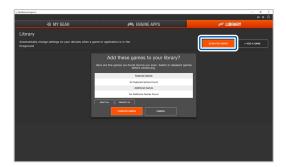
The LIBRARY tab quickly set up your configuration to auto-launch with a game.



1. SCAN FOR GAMES

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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.

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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.

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SteelSeries Engine 3				
1 🔞 МҮ GE	EAR 2	🙉 ENGINE APPS	🕫 LIBRARY	
MSI PER KEY RGB KEYBOARD			Configuration • REE WAY	
MYSTIC LIGHT			Configuration	

1. MY GEAR

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

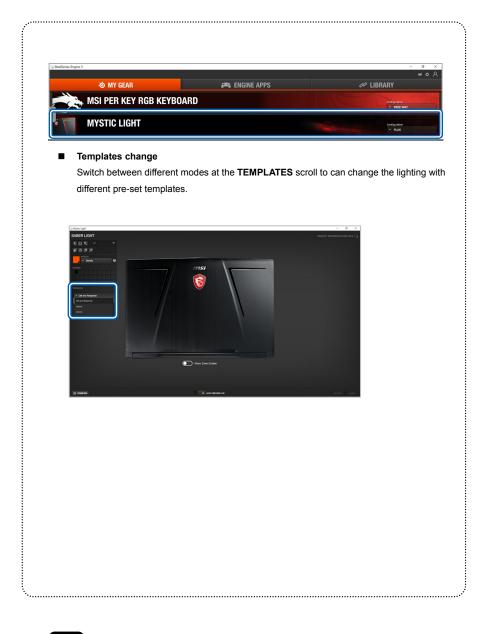
2. ENGINE APPS

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

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MY GEAR

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



Effect Configuration

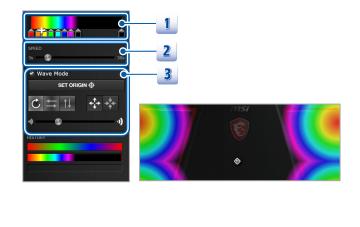
Use the tools to select the Zones to adjust, then select ColorShift for instance.



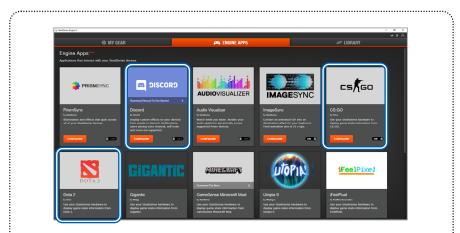
Tools

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- 1. Color of the zones select will cycle through the colors on the bar.
- 2. Use **SPEED** to adjust how fast the color cycles.
- 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

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



Note		

MSI True Color

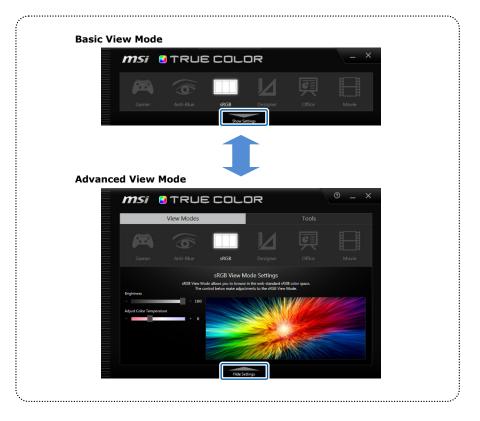
MSI True Color 2.0 allows users to select the best color settings for the displayed contents. It can customize and control laptop panels for precise image presentation. When the application is launched, the display will automatically adapt to the assigned color settings.

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.



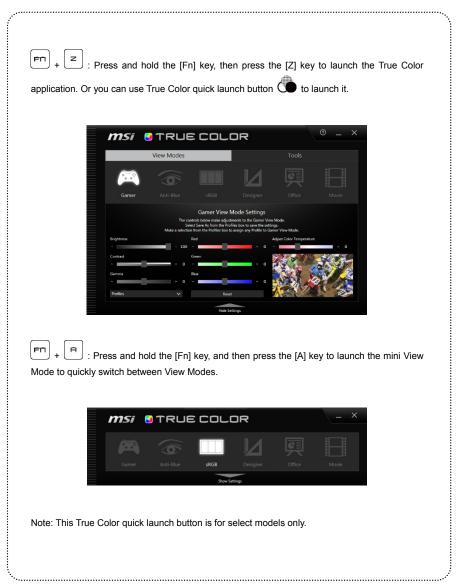
About View Modes

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

Gamer	For playing games.
Anti-Blue	For reducing the amount of blue light that is emitted from the display to reduce eye fatigue.
sRGB	For accurate color when viewing images on websites.
Designer	For designer applications. (depend on model)
100% Adobe RGB	For accurate color when viewing images and other media created in the Adobe RGB color space. (depend on model)
Office	For office and productivity applications.
Movie	For watching movies.

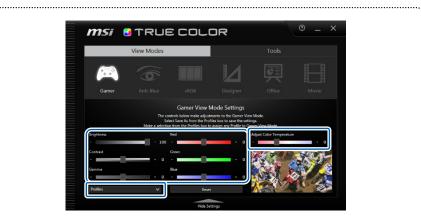
Hot Keys (for selected models only)

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



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

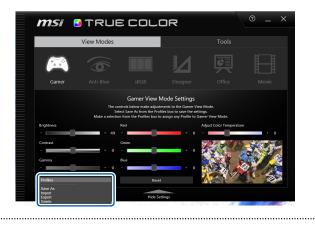
Use the respective slider to adjust their brightness, contrast, gamma, Red, Green and Blue value.

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:



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

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

 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.



er Profile Save As

- 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.

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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:

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

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	View Modes				
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			Adobe RGB		
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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:

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

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- 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 Could Sign SympTM, 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 SyncTM. Check or uncheck "Activate" can turn on or off App SyncTM.

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View Modes		Too	ls
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App Sync [™] Desktop Partitio			
X Activate	App Sync™		
Application		Mode/Profile	
Windows Media Player		Movie	× ^
			~
Refresh	Browse		Delete

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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

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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.

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	Desktop Partition		
Mentally Partilions			
		Hide Settings	

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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:

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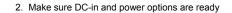


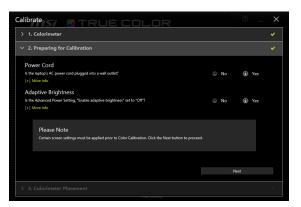
Follow the steps in True Color 2.0, users can easily calibrate their panels.



1. Connect the colorimeter

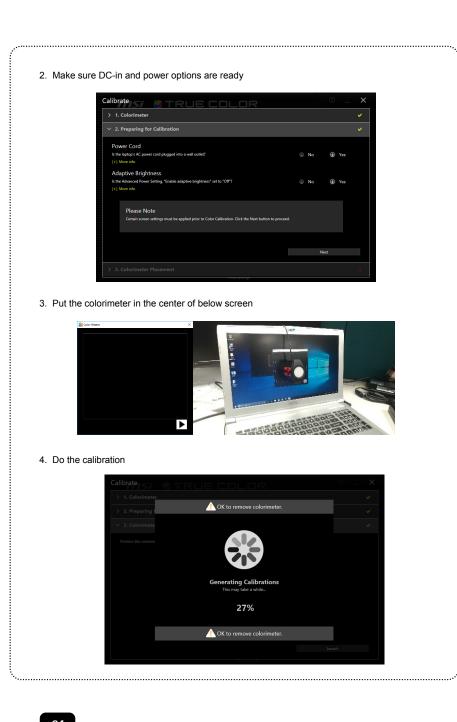
librate	~
Colorimeter found. Click Next.	
Ambient Light Diffuser If the colorimeter is equipped with an Ambient Light Diffuser, remove it by pulling it forward and fli	ipping it to the back of the colorimeter.
Pull out the diffuser and flip it around	
Pull out the diffuser and flip it around	Next
Nil out the diffuer and flip it around	Next
	Nec ×







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5. Finish the calibration

Calibrate	TRUE COLOR	0 _ X
> 2. Preparing for		
∨ 3. Colorimete	Color Calibration Success	×
	All View Modes have been calibrated successfully.	
	Fields Note: The Reset View Mode: button on the Holp pane will restore original factory calibrations.	

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.



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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		
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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.



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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.

MSi Help			- ×
Product Name : GE	73VF 7RF 09	S:Microsoft Windows 10 Pro 64-b	it
Customer Service System Info Technical Support	Product Information BIOS Varsion: E17/C1IMS.106 BIOS Release Date: 2018/01/11 EC Version: 17.C1EMS1.1020713201714 Serial Number: FFFFFFF Windows Product Key: 46/PA HDI Build: 257.17C1RM6-EF3 5.1.C7.5.0.3	:16:49 effectiveness and custor of your laptop will be se custome service agents disagree with the aforen to provide you with such support and appreciatio	oving customer service's mer's convenience,the serial number in to us, allowing Mid Online to have direct access Should you memoring terms, Mik win't be able memoring terms, Mik win't be able memoring the service for the service net Mid product.
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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.

	Desk		- ×
Product Name : GE7		OS : Microsoft Windows 10 Pro 64-bit	
	Important Notifica		
Customer Service	Important Notifica No new notification		
System Info			
Technical Support			
Important			
Notification			
		Driver & APP Center	
Version : 2.0.1803.1301		Online update Driver & Utility	

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.

MSí Check Up		Driver /	Utility	GE73V	Windows 10
	Name	Installed version	Official Version		
inlet Rapid Storage Technology	Intel Rapid Storage Technology F6 Driver	15.7.0.1014	15.9.0.1015	1.65 MB	Download &
	Intel Rapid Storage Technology Driver	15.7.0.1014	15.9.0.1015	17.42 MB	Download
TouchPad	Synaptics TouchPad Driver	19.3.4.184	19.3.4.193	29.22 MB	Download 4
VGA	Intel Graphics Driver	22.20.16.4708	23.20.16.4849	308.03 MB	Download 🛓
	NVIDIA Graphics Driver	385.28	388.16	586.21 MB	Download &
niel Management Ingine	Intel Management Engine Driver	11.7.0.1028	11.7.0.1045	72.35 MB	Download &
Card Reader	Realtek Card Reader Driver	10.0.15063.21299	10.0.16299.21304	12.38 MB	Download 4
Radio Switch	ENE Radio Switch for Airplane Mode	1.1.4.0		0.86 MB	Download 4

Orice Utility Orice Utility Name natalied version Official Version Field State Marine Name natalied version Official Version Field State Marine Name natalied version Official Version Field State Marine Nike Field Switch for Aleplane Mode 114.0 113.0 0.06 Ma Demonstrate Marine Killer LNN Driver 13.1309 15.466 117.47 Ma Demonstrate Marine Killer Bud Versiess LAN Driver 10.0.15025 0.00.048 5.46 Ma Demonstrate Marine Marine 0.01.8025 0.03.1802 0.00.048 Demonstrate Demonstrate Marine Marine 0.01.8025 0.03.1802 0.00.048 Demonstrate Demonstrate Marine Marine 0.01.8025 0.03.1802 0.00.048 Demonstrate Demonstrate Marine Marine Origone Driver 0.01.8025 0.03.1802 Demonstrate Demonstrate Marine Marine Driver & App Center Driver Utility Demonstrate Demonstrate Demonstrate <th>Driver Driver Mame Installed version Official Version File Sire Maria Realtick Card Reader Driver 10.01506321229 10.01404202104 12.38 MB Control of MB File Sire ENE Radio Switch for Airplane Mode 11.4.0 11.5.0 0.06 MB Control of MB File Sire Killer LAN Driver 13.1309 15.1608 117.47 MB Control of MB Intel Wireless LAN Driver 13.1309 15.1608 117.47 MB Control of MB Marie Killer Elan Driver 10.01.3029 10.00.480 20.56 MB Immarie Marie Killer Blaetooth Driver 10.01.309 10.00.440 20.56 MB Immarie Marie Audio Driver 6.01.18205 40.12820 20.55 MB Control of MB Marie Intel Chipset Driver 10.11.44 10.1.45 3.62 MB Control of MB Marie Intel Chipset Driver 10.01.144 10.1.145 3.62 MB Control of MB Marie Intel Chipset Driver 10.01.144 10.1.145 3.62 MB Control of MB Marie Driver Utility Control of MB Control of MB Control of MB Marie Intel Chipset Driver 10.01.3663.21289 Drive</th> <th>Unice change Driver Driver Name Model of Michael Source 11.4.0 11.5.0 0.66 MB Control of Michael Source Name ENE Radio Switch for Airplane Mode 11.4.0 11.5.0 0.66 MB Control of Michael Source Name Killer LAN Driver 13.1309 15.1666 117.47 MB Control of Michael Source Name Killer Bluetooth Driver 10.0.0.309 10.0.0.48 35.46 MB Control of Michael Source Name Michael Source 10.1.1.44 10.1.1.43 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.43 10.0.1.50 MB Control of Michael Source Name Control of Michael Source Name Intel Chipset Driver 10.1.1.43 10.0.1.50 MB Extended Source Name Control And Source Name <</th> <th>Unice change Driver Driver Name Model of Michael Source 11.4.0 11.5.0 0.66 MB Control of Michael Source Name ENE Radio Switch for Airplane Mode 11.4.0 11.5.0 0.66 MB Control of Michael Source Name Killer LAN Driver 13.1309 15.1666 117.47 MB Control of Michael Source Name Killer Bluetooth Driver 10.0.0.309 10.0.0.48 35.46 MB Control of Michael Source Name Michael Source 10.1.1.44 10.1.1.43 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.44 10.1.4.5 3.62 MB Control of Michael Source Name Intel Chipset Driver 10.1.1.43 10.0.1.50 MB Control of Michael Source Name Control of Michael Source Name Intel Chipset Driver 10.1.1.43 10.0.1.50 MB Extended Source Name Control And Source Name <</th> <th>Driver Driver Driver Name Models duration Official Version File Size Reader Reading Switch for Airplane Mode 1.1.4.0 1.1.5.9 0.06 MB Control III Killer LAN Driver 3.3.309 1.5.168 117.47 MB Control III Killer Killer LAN Driver 1.3.1309 1.5.168 117.47 MB Control IIII Intel Wrieless LAN Driver 1.3.1309 1.5.168 117.47 MB Control IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</th> <th>Driver Driver Name Model version Official Version File Size Realtack Card Reader Non-Arplane Mode 1.1.4.0 11.5.0 Obs 10.0.15005.21229 Version 0.85 MB East Realtack Card Reader Killer LAN Driver 1.3.1309 1.5.468 117.47 MB Intel Wrieless LAN Driver 1.3.1309 1.5.468 117.47 MB Intel Wrieless LAN Driver 1.3.1309 1.5.468 117.47 MB Intel Wrieless LAN Driver 1.0.0.0.309 1.0.0.0.309 10.0.0.48 Audio Driver 6.0.1.8005 Audio Driver 10.0.0.309 Intel Chipset Driver 10.1.1.44 1.0.1.44 10.1.2.8 MB entry Part Brancheter Reported to Midd deter 1. 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udio /	Audio Driver	6.0.1.8205		
hipset	Intel Chipset Driver	10.1.1.44		

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

- 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.
- 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.

12 Sta	atus : Last calibratio	n 2015/03/10 🛛 🗲		
Adapte	er is disconnected	Battery is removed	Other applications existed	
		Calibratiob is recommended		
		Start 🗨		
🚺 Att	tention			



6. Calibration completed.

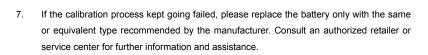
5.

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

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Warning Notification

1. If the AC/DC adapter is disconnected during the calibration process, a warning notification will appear.

......

 Please reconnect the AC/DC adapter to continue the calibration process within 15 seconds; otherwise the calibration process will stop automatically.

MSI BATTERY CALIBRATION	×
Adapter is disconnected! Reconnect to continue or cancel the calibration	
Canel	

- 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.

MSI BATTERY CALIBRATION X	
Battery is removed! Calibration is stopped Please try again Try Again	

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.

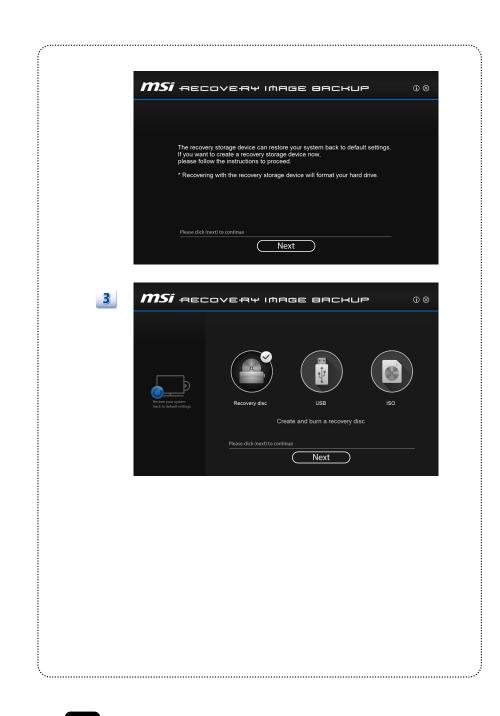
Usage of this application on any product with no authorization may be prohibited.

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.



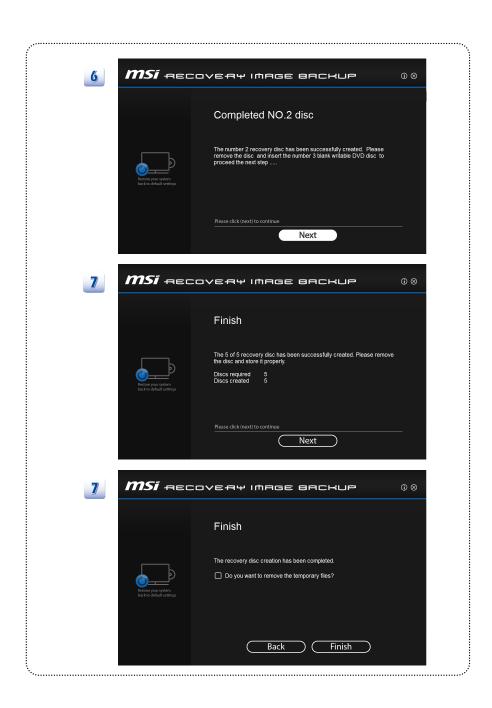


Create and Burn a Recovery Disk

- 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.



3	4
Windows Disc Image Burner	Windows Disc Image Burner
Disc image file: recovery_dvd.iso Disc burner: DVD R Drive (F:) v	Disc image file: recovery_dvd.iso
Status To start burning the disc image, click Burn.	Disc burner: DVD R Drive (F:) V
	Status The disc image has been successfully burned to disc.
Verify disc after burning Burn Cancel	
	✓ Verify disc after burning
	Burn Close
MSÍ RECOVE	S A ₩ IMAGE BACKUP 08
C	Completed NO.1 disc
C Trees you system back to default services	Completed NO.1 disc
C Trees you system back to default services	Completed NO.1 disc

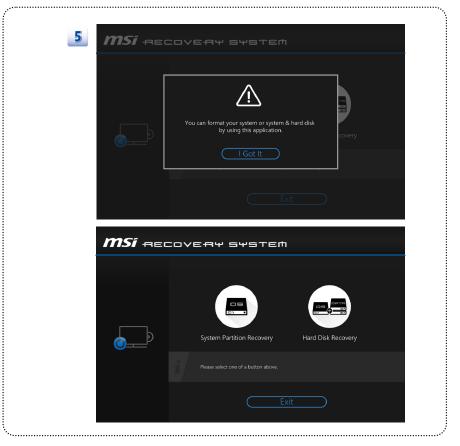


Recovering the System

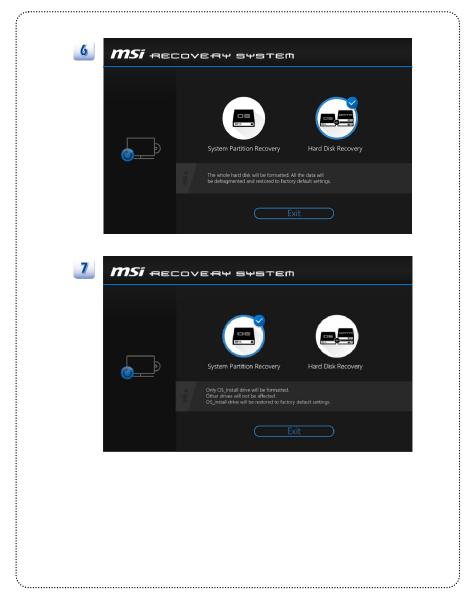
When the hard drive and system encountered non-recoverable problems, it is always recommended to perform the System Recovery Function with F3 Hotkey first.

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.
- 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.

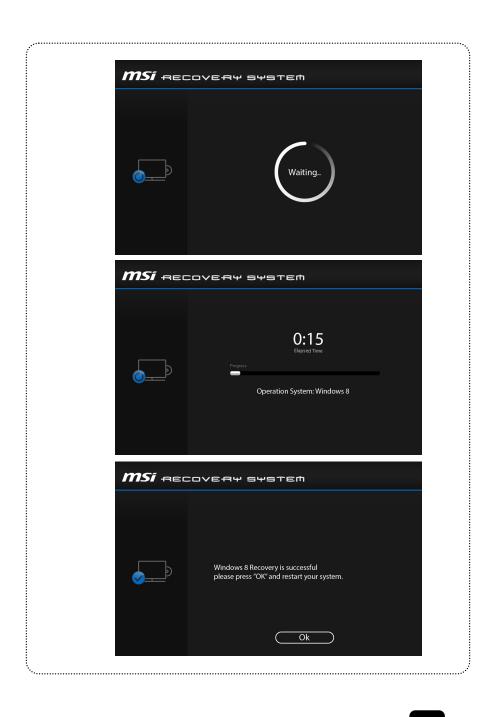


- 6. Select [Hard Disk Recovery] to restore the hard disk to the manufactory default settings.
- Select [System Partition Recovery] to reset the hard disk drive partition where the operating system installed to the manufactory default settings.



- 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.

	COVERY SYSTEM
	Be sure to connect your AC power adopter and don't turn off when Windows set up is running.
	Windows kurulumu çalışırken AC güç adaptörünüzü bağladığınızdan emin olun ve kapatmayın. Assegure-se de conectar seu adaptadur de alimentação AC e não desligue durante a execução de instalação do Windows.
	必要がありますので、ACアダフターを確実に接続し、設定中に電源を切らないでください。
	Bútinai prijunkite kintarrosios srovos adapterį ir neišjunkite kompiuterio, kol vyksta "Windows" saranka. Gydzódjon meg rola, hogy csatlakoztatta az AC tāpadaptert, ės ne kaposolja ki azt a Windows teleplitēse közben.
	Asegúrese de conectar su adaptador de alimentación AC y no apague durantes la ejecución de instalación del Windows.
	Provjerite da li ste priključili svoje računalo na adapter naizmjenične struje i ne isključujte računalo dok se instaliraju Windows postavke, Pieslēdziet AC elektroadapteri un neizšlēdziet datoru, kamēr notiek Windows iestatīšana,
IMPORTANT	Upewnij się, że adapter zasilania prądem zmiennym jest posłączony i nie wylaczaj w czasie konfiguracji, przeprowadzanej przez Windows.
	Vérifiez d'avoir branché l'adaptateur AC et n'éteignez pas l'ordinateur pendant que l'installation de Windows est en cours. Varmista etta olet kytkenyt virtajchdon paalle ja ala kytke virtaa pois paalta Windows-ohjelman asennuksen alkana.
	varmista etta olet kytkenyt virtajonoon paalle ja ala kytke viitaa pois paalta vvindows-onjelman asennuksen aikana. Уверете се, че сте свързали AC адаптера за закранването и не изключвайте докато протича зареждането на Windows.
Be sure to connect your	Убедитесь, что подключен адаптер питания переменного тока и не выключайте компьютер при выполнении установки Windows.
AC power adapter and don't turn off when	Pass på at du kobler til strømforsyningen og ikke skrur av mens Windowsoppsettet kjører. Pripole napilaci adapter a béhem procesu instalace svstému Windows nevvolneite počitat.
Gont turn ort when Windows set up is run-	Let op dat u uw AC netadapter aansluit en schakel Windows niet uit wanneer de Windows instelling bezig is.
ning.	Nezabudnite pripojiť sieťový adaptér a notebook počas inštalácie systému Windows nevypínajte. Úhendage kindlasti oma vooluadapter ja árge arvutit Windowsi háslestamise ajal válja lúltage.
	Se till att ansluta din växelströmsadapter och inte stänga av medan Windows set up körs.
	Assicuransi di aver collegato l'alimentatore CA e non chiudere Windows mentre è in corso l'installazione. Certifique-se de conectar seu adaptador de alimentação AC e não desligue durante a execução de instalação do Windows.
	Bitte schließen Sie Ihren AC Netzadapter an und schalten Sie das Notebook nicht aus, während die Windows Installation läuft.
	AC 전원 어렵티가 연결되었는지 확인하시고, 윈도우 설정이 진행되는 동안이는 전원을 끄쳐 아십시오. Asigurati-vă că adaptorul de current AC este conectat și pu îl închideti când rulează Windows.
	Asigurağıva ca adaptorul de curent AC este conectat şi nu îl închideti cand rulează Windows. 講先將AC轉接該連接筆記型電腦部分的電源, 安裝Windows作業系統期間功命關核筆記型電腦
	请先将AC转接着还接笔记型计算机和外部电源,安装Windows操作系统期间切勿文计笔记型计算机
	COVERY SYSTEM
	All files and setting will be reset and lost on this computer.
	All files and setting will be reset and lost on this computer. Are you sure to continue?
	Are you sure to continue?
	Are you sure to continue?



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