INTEL® NUC SOFTWARE STUDIO FOR GAMING LAPTOPS

Intel® NUC X15 Laptop Kit (2022) – User Guide

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Systems Product Group
Client Computing Group, Intel® Corporation

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Revision History

Version	Date	Description of Changes
1.0	August 2022	Initial Release
1.1	December 2022	Update Installation/uninstallation, Keyboard LEDs, Audio Tuning and pictures

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1 Introduction

Overview

The Intel® NUC Software Studio for Gaming Laptops allows an end user with Intel® NUC X15 (2022) laptop kit to monitor and tune various system, performance, display, Keyboard LEDs and Audio.

Supported Product

Intel® NUC X15 (2022) Laptop Kit - LAPAC71G, LAPAC71H

Supported Operating Systems

- Windows 11 version 21H2 / 22H2

2 Installation

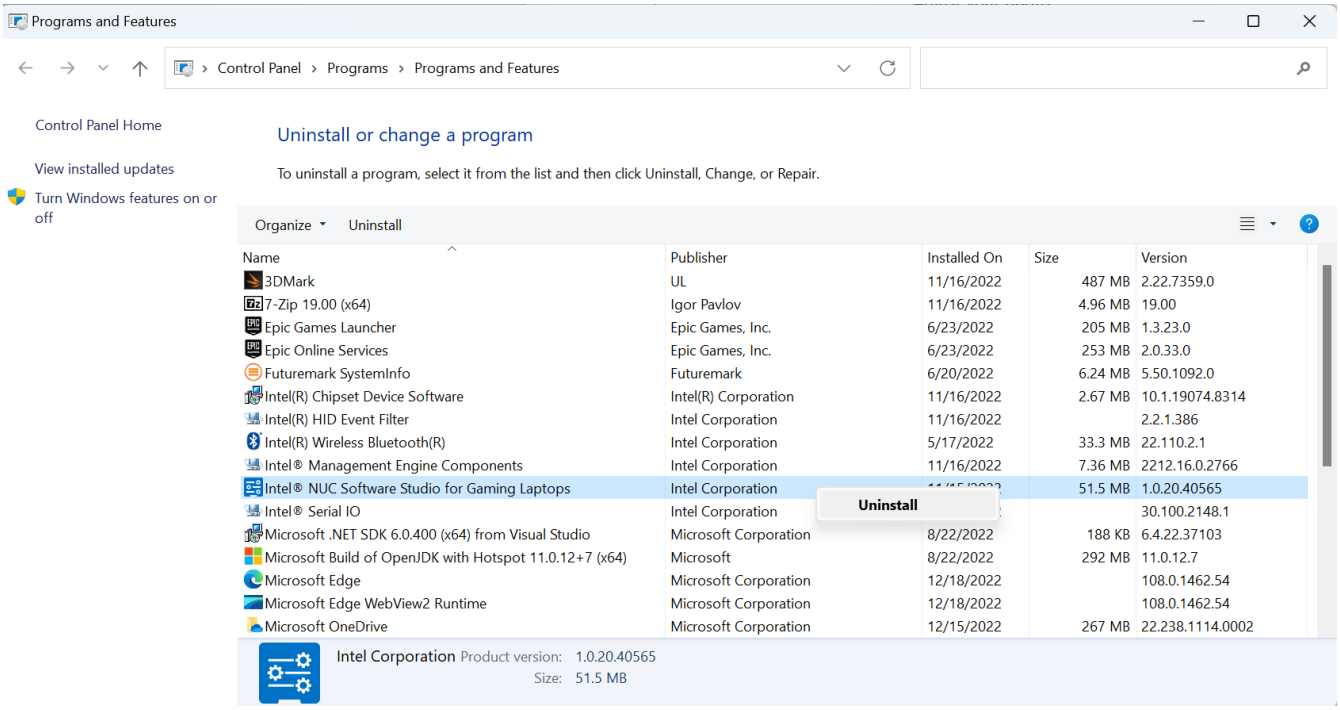
Application Installation

1. From Intel Download Center https://downloadcenter.intel.com search for 'Intel NUC Software Studio for Gaming Laptops'.
2. Click Download
3. Double click the EXE installer
4. Click Yes to restart the system

Application Uninstallation

Go to Control Panel -> Programs -> Programs and Features

Right Click on Intel® NUC Software Studio for Gaming Laptops

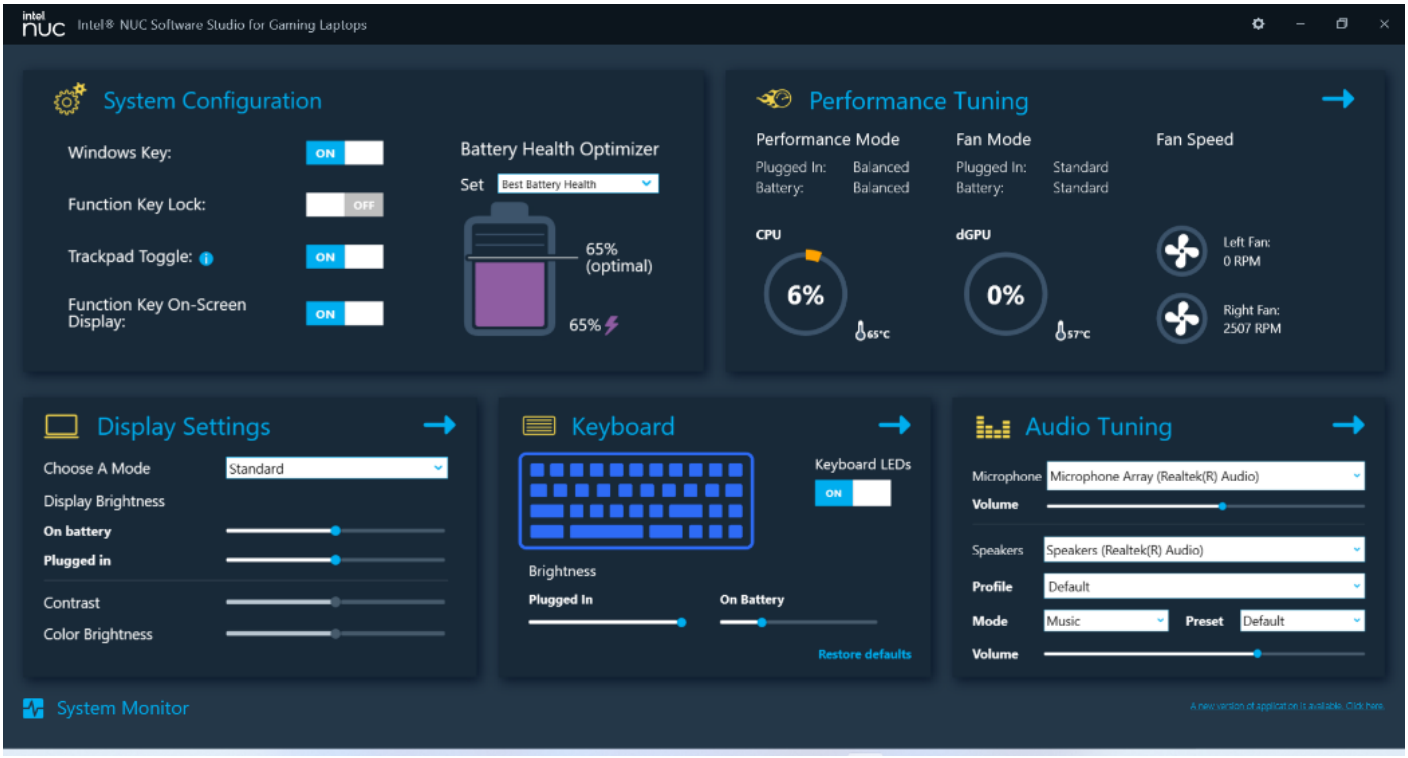


Choose Uninstall and confirm.

3 Intel® NUC Software Studio for Gaming Laptops

Intel® NUC Software Studio for Gaming Laptops – Home Screen

The Intel® NUC Software Studio for Gaming Laptops home screen is displayed as shown below.


Intel® NUC Software Studio for Gaming Laptops
System Configuration
Windows Key:
ON
Function Key Lock:
OFF
Trackpad Toggle:
ON
Function Key On-Screen Display:
ON
Battery Health Optimizer
Set
Best Battery Health
65% (optimal)
65%
Performance Tuning
Performance Mode
Plugged In: Balanced
Battery: Balanced
Fan Mode
Plugged In: Standard
Battery: Standard
Fan Speed
CPU
6%
65°C
dGPU
0%
57°C
Left Fan: 0 RPM
Right Fan: 2507 RPM
Display Settings
Choose A Mode
Standard
Display Brightness
On battery
Plugged in
Contrast
Color Brightness
Keyboard
Keyboard LEDs
ON
Brightness
Plugged In
On Battery
Restore defaults
Audio Tuning
Microphone
Microphone Array (Realtek(R) Audio)
Volume
Speakers
Speakers (Realtek(R) Audio)
Profile
Default
Mode
Music
Preset
Default
Volume
System Monitor

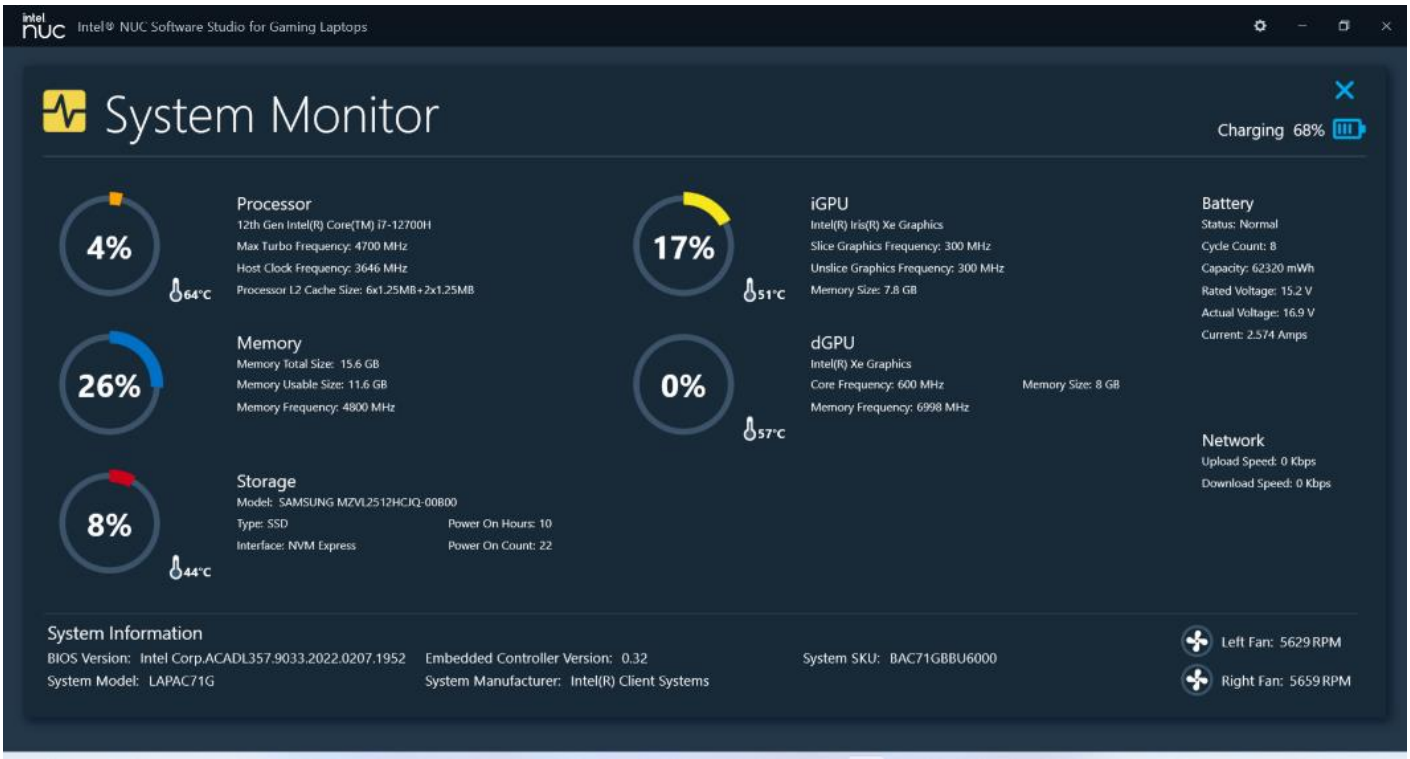
Intel® NUC Software Studio for Gaming Laptops - Features

Intel® NUC Software Studio for Gaming Laptops supports the below features on the Intel® NUC X15 (2022) Laptop Kit:

1. System Configuration
2. Performance Tuning
3. Display Settings
4. Keyboard
5. Audio Tuning

4 System Configuration

System Monitor

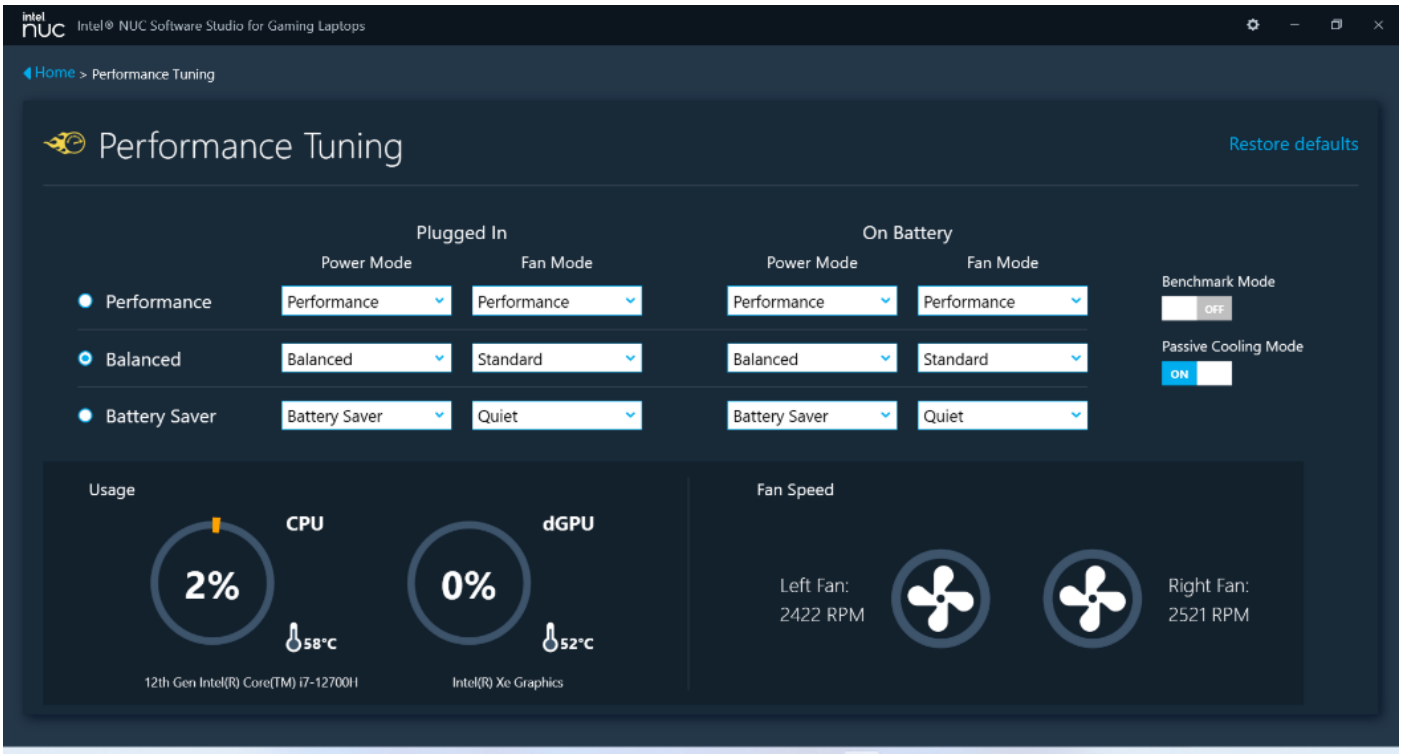


5 Performance Tuning

Performance Tuning – Performance Profiles

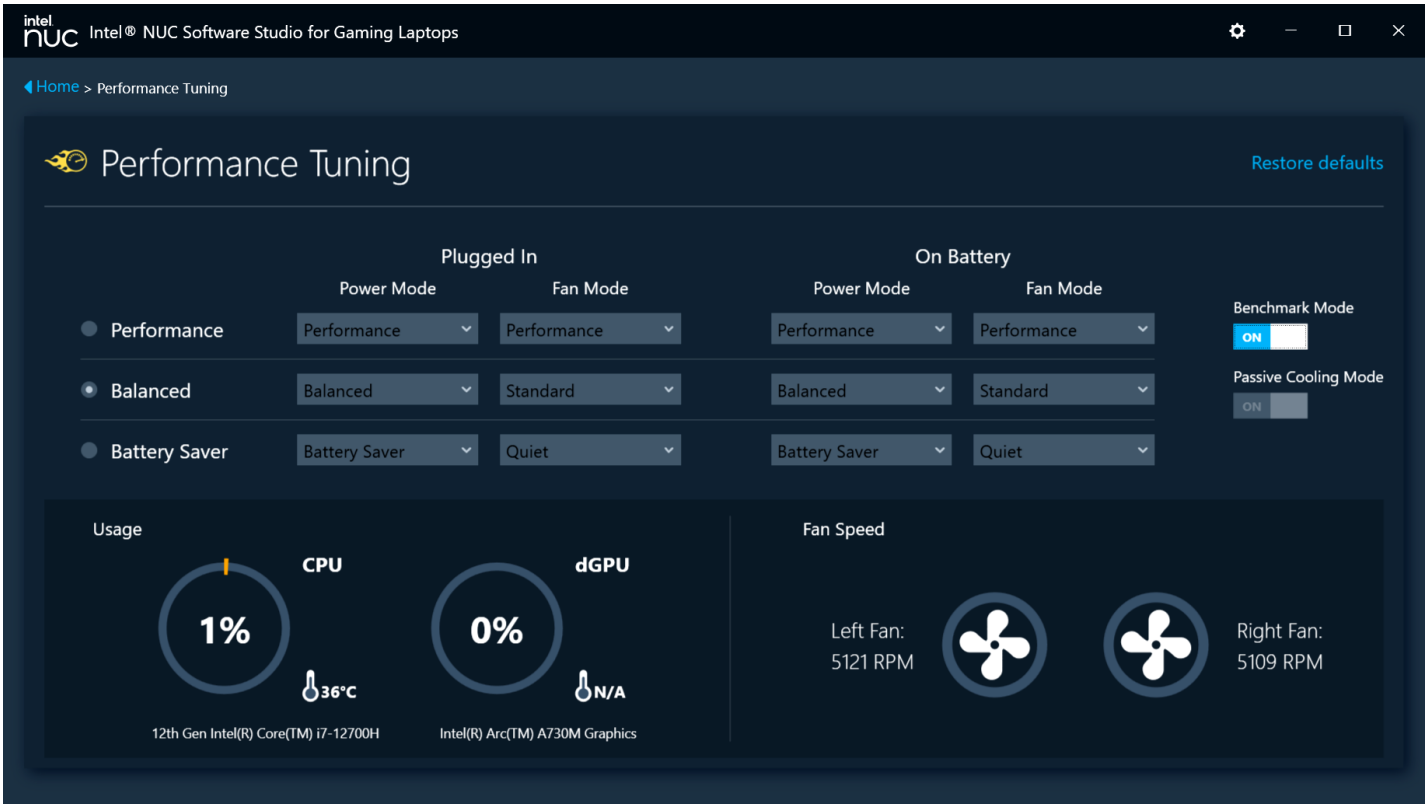
The following default Power and Fan settings are supported for each Performance Profile:

AC Power Mode	AC Fan Mode	DC Power Mode	DC Fan Mode
Performance	Performance	Performance	Performance
Balanced	Standard	Balanced	Standard
Battery Saver	Quiet	Battery Saver	Quiet



Performance Tuning – Benchmark Mode

When enabled, all other settings were disabled.



6 Display Settings

Display Modes

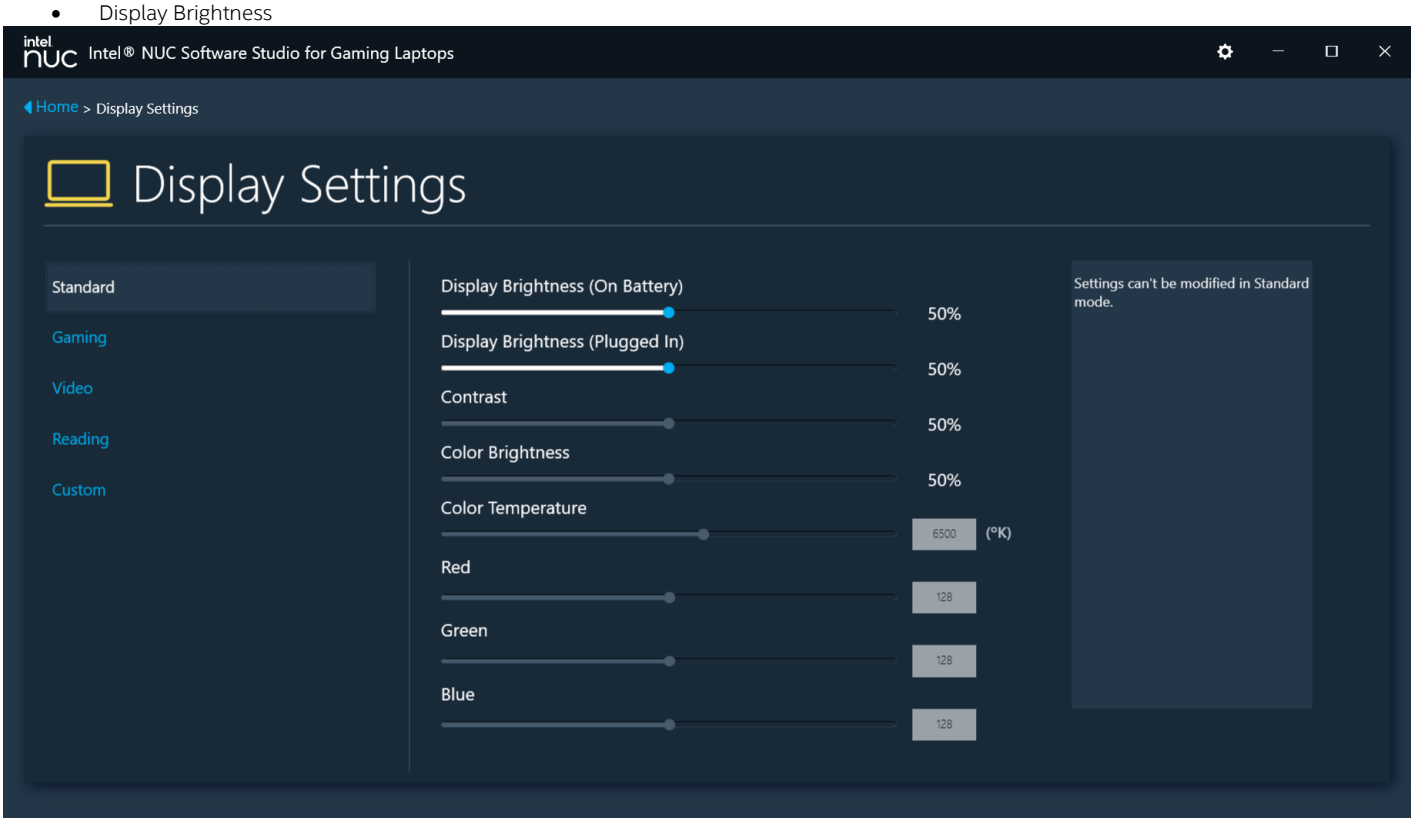
The following display modes are supported in **Intel® NUC Software Studio for Gaming Laptops**:

- Standard
- Gaming
- Video
- Reading
- Custom

Standard Mode (Default on first launch of Intel® NUC Software Studio for Gaming Laptops)

The following sliders are available when Standard mode is selected:

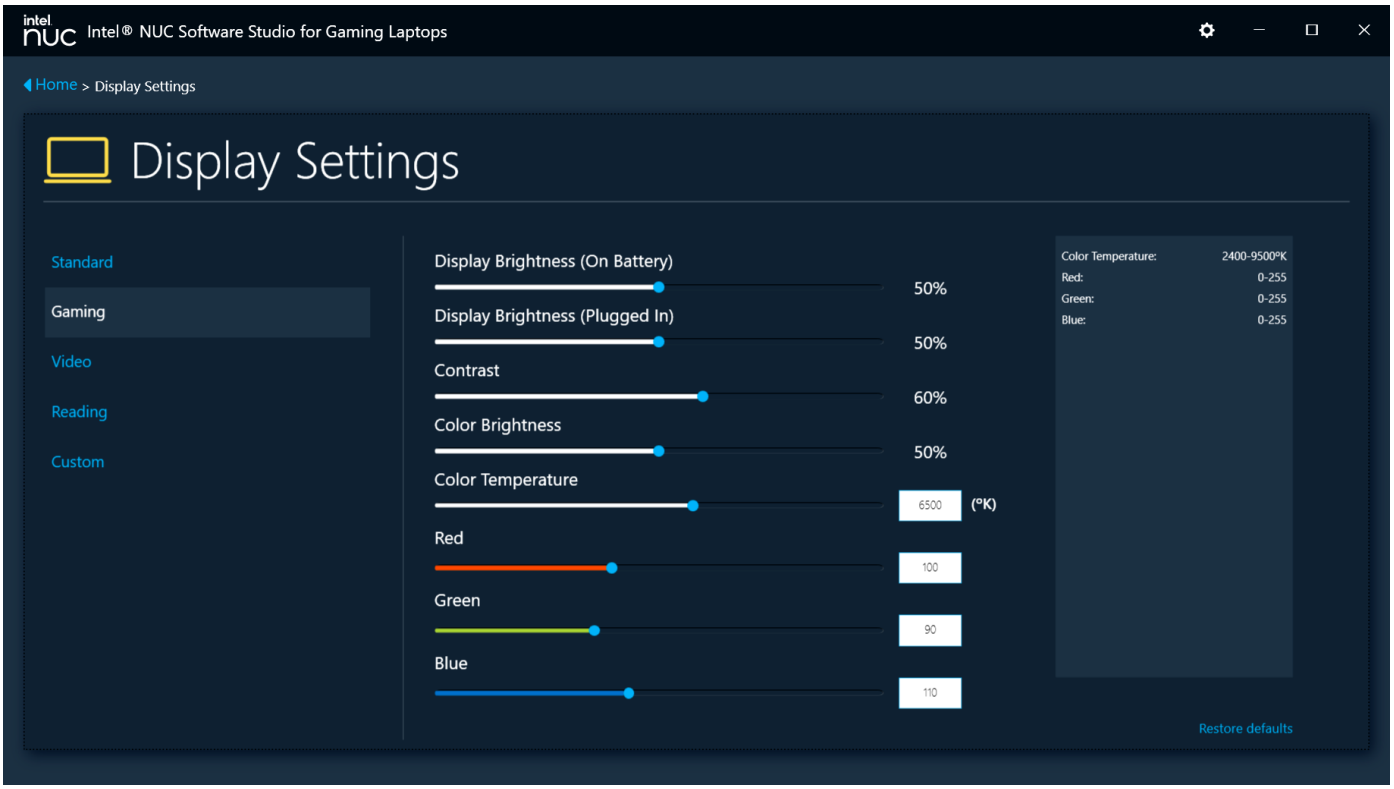
- Display Brightness (Plugged In)
- Display Brightness



Gaming Mode

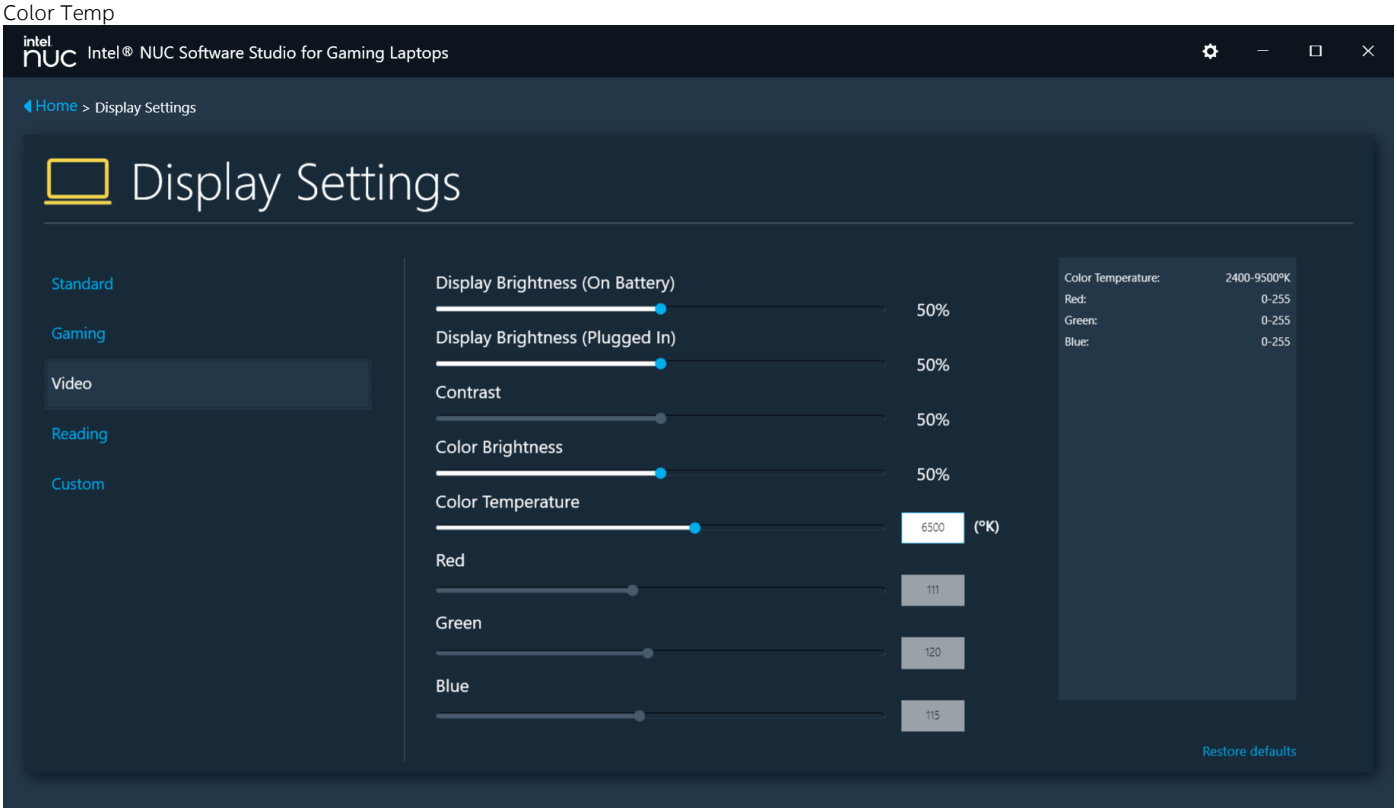
In Gaming mode, the following sliders are available and the physical display will be updated based on these slider adjustments:
Display Brightness (Plugged In)
Display Brightness (On Battery)
Color Brightness
Contrast
Color Temp
Red
Green
Blue

In this mode, the Restore defaults button is also available and will allow the user to reset the display to the default values



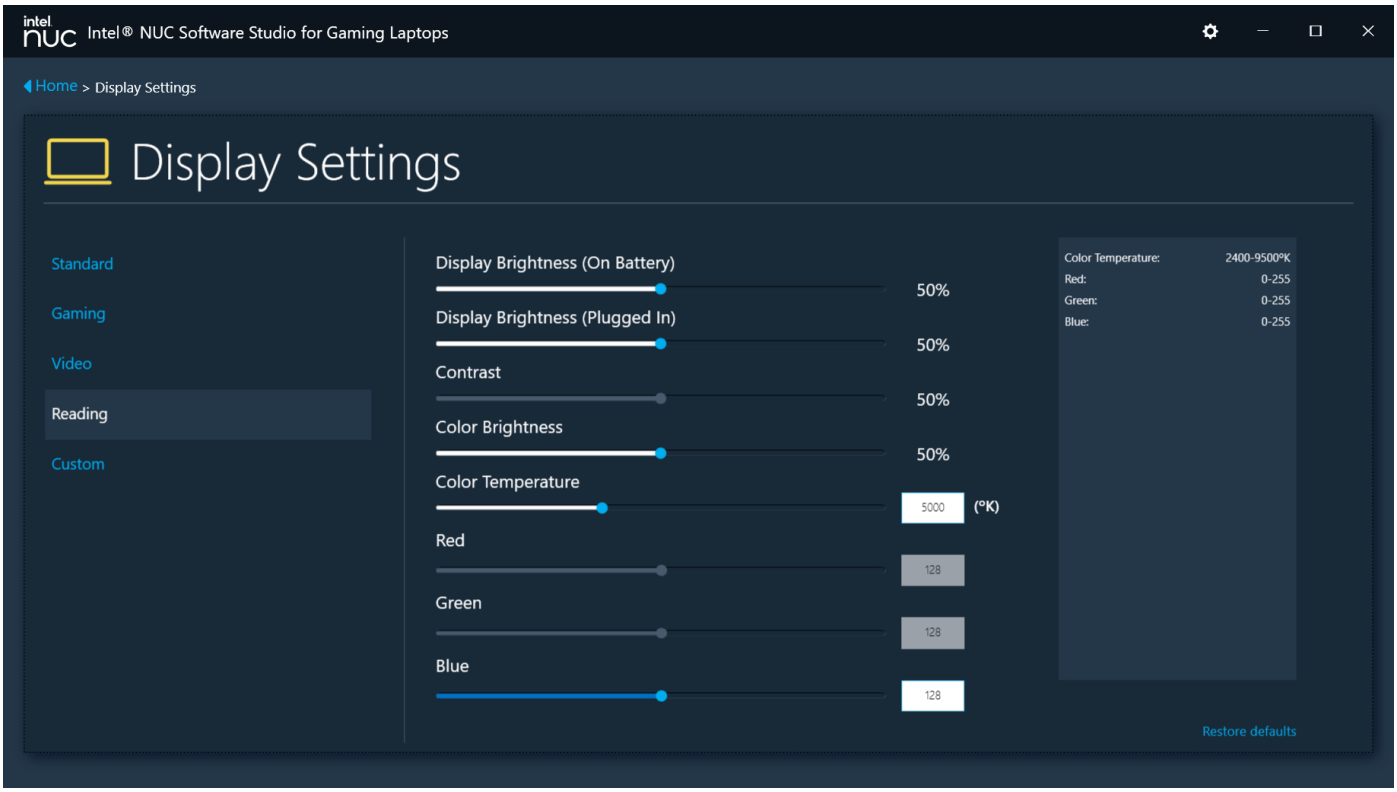
Video Mode

In *Video* mode, the following sliders and the *Restore defaults* button are available:
Display Brightness (Plugged In)
Display Brightness (On Battery)
Color Brightness
Contrast
Color Temp



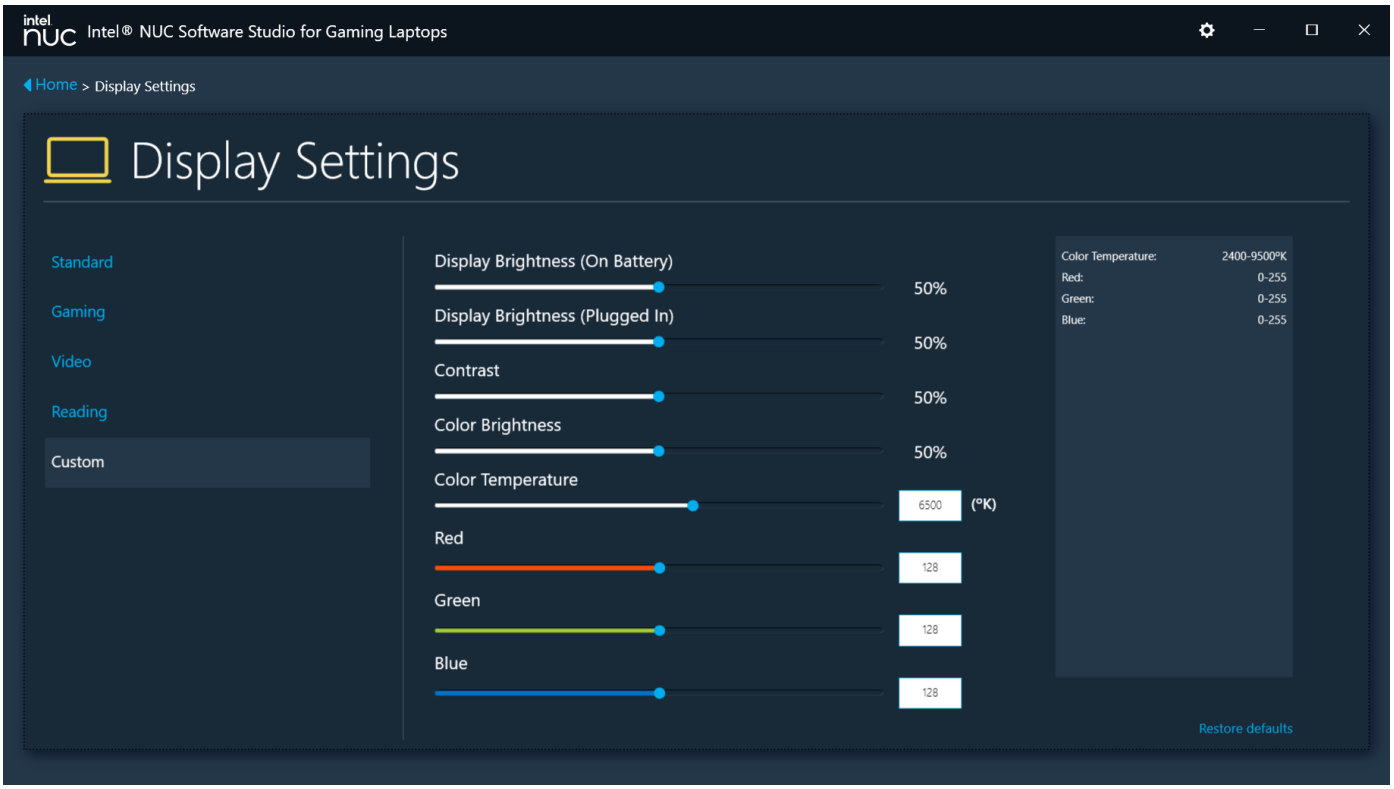
Reading Mode

In *Reading* mode, the following sliders and *Restore defaults* button are available:
Display Brightness (Plugged In)
Display Brightness (On Battery)
Color Brightness
Contrast
Color Temp
Blue



Custom Mode

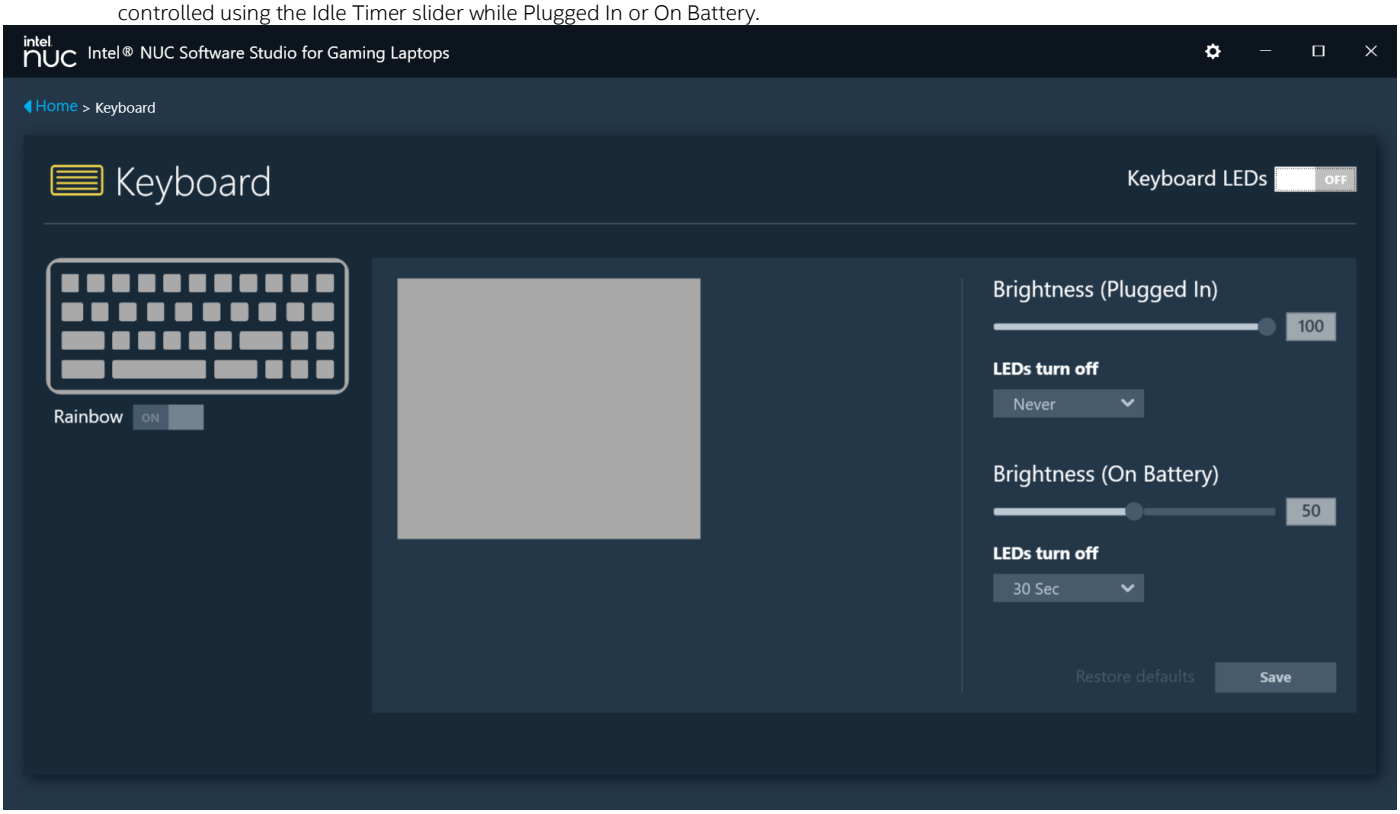
In *Custom* mode, the following sliders and *Restore defaults* are available:
Display Brightness (Plugged In)
Display Brightness (On Battery)
Color Brightness
Contrast
Color Temp
Red
Green
Blue

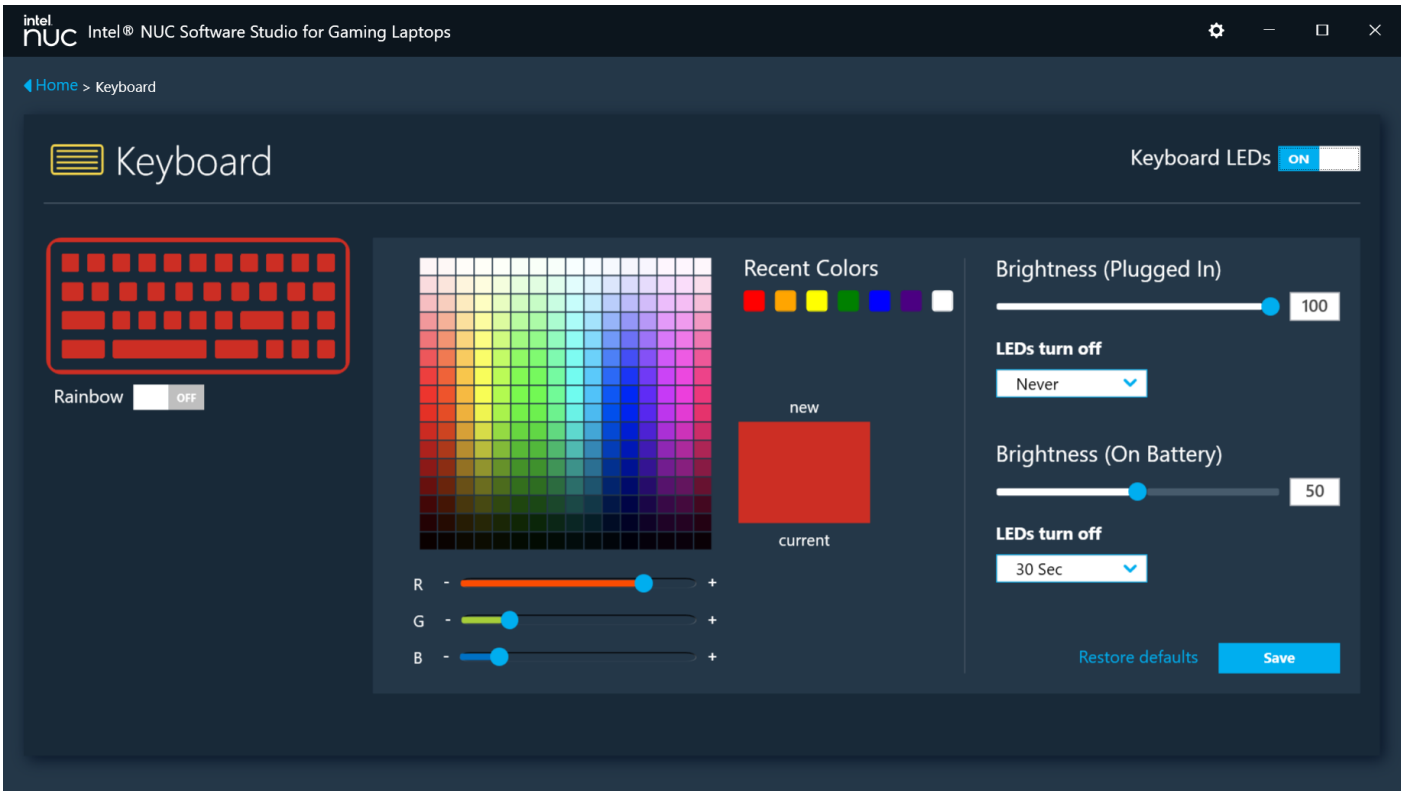


7 Keyboard

In this feature, the user can customize colors, brightness, and Idle Timer.

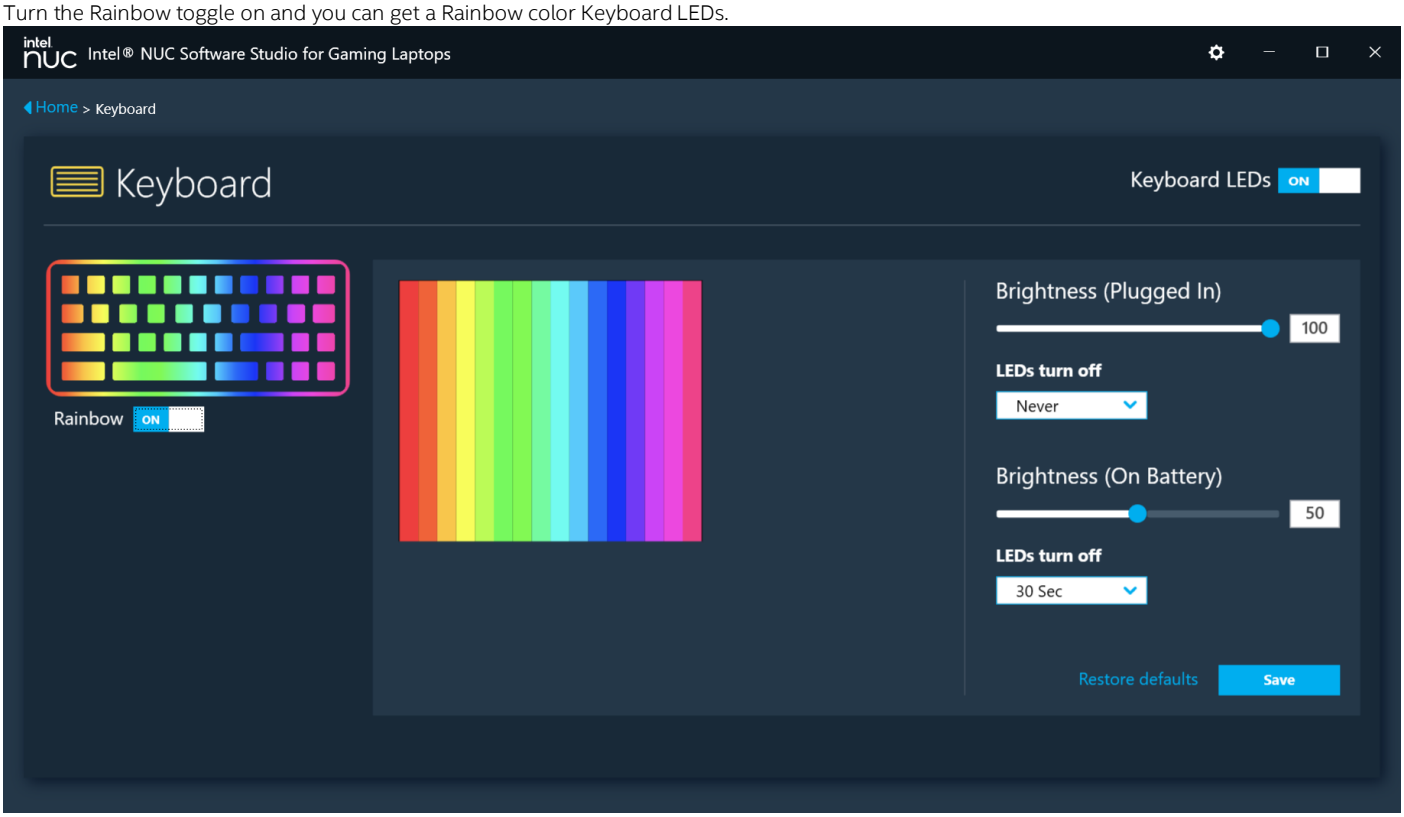
- You can also choose to disable the entire Keyboard LED zone by turning off the 'Keyboard LEDs' toggle. All controls in the UI will be disabled.
- Keyboard LEDs will turn off when the idle timer expires and turn back on when the user next interacts with the system. This can be controlled using the Idle Timer slider while Plugged In or On Battery.





Keyboard Rainbow color

Turn the Rainbow toggle on and you can get a Rainbow color Keyboard LEDs.

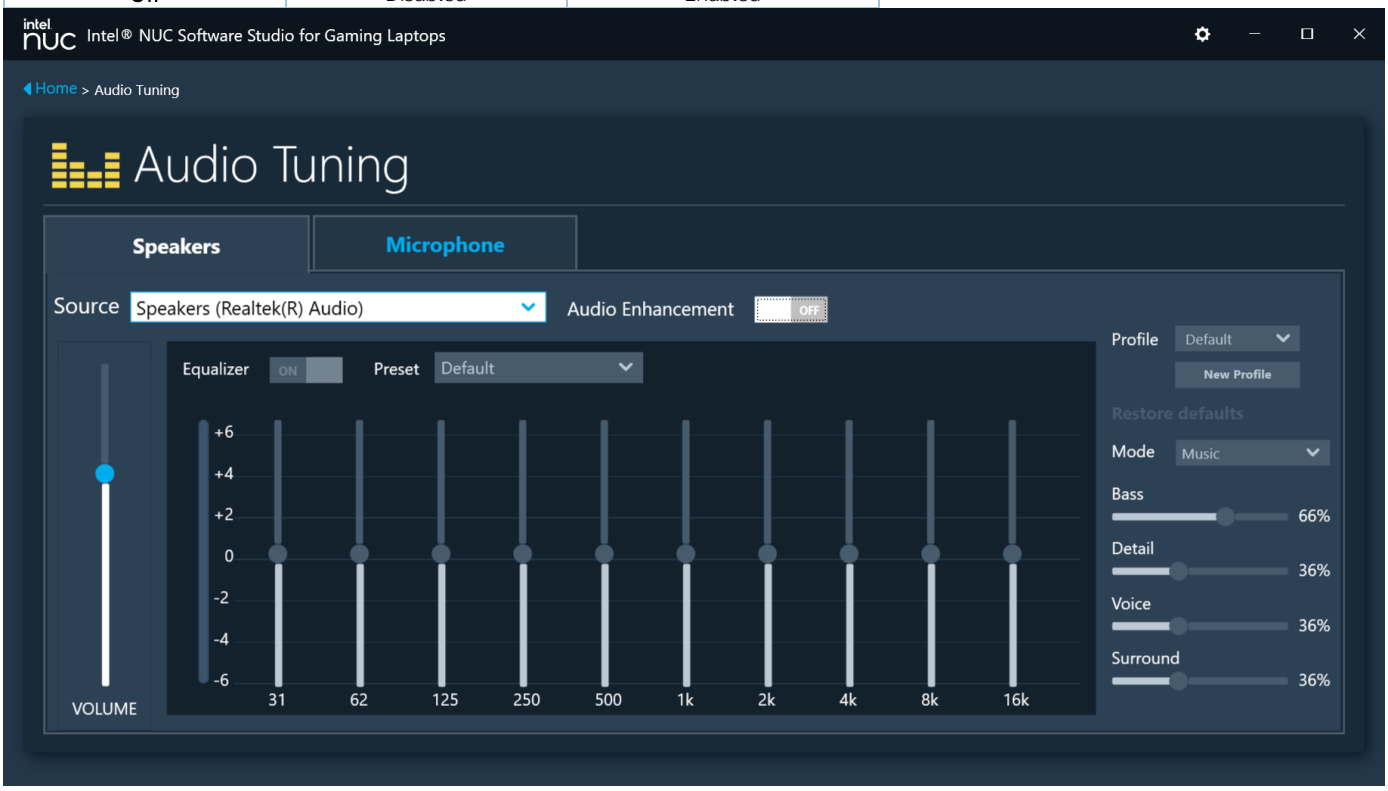


8 Audio Tuning

Audio Output

Using the Audio Enhancement toggle, the user can turn output processing on or off (including modes and equalizer) as follows:

Audio Enhancement	Output Controls	Output Volume Slider
On	Enabled	Enabled
Off	Disabled	Enabled



Audio Output – Processing Modes

The following Modes are available when Audio Processing is enabled:

- Music
- Voice
- Movie
- Gaming
- Off

Audio Output – Processing Presets

The following Presets are also available for each Mode when Audio Processing is enabled:

- Bass
- Detail
- Voice
- Surround

Audio Output – Equalizer Frequency Amplification Level Sliders

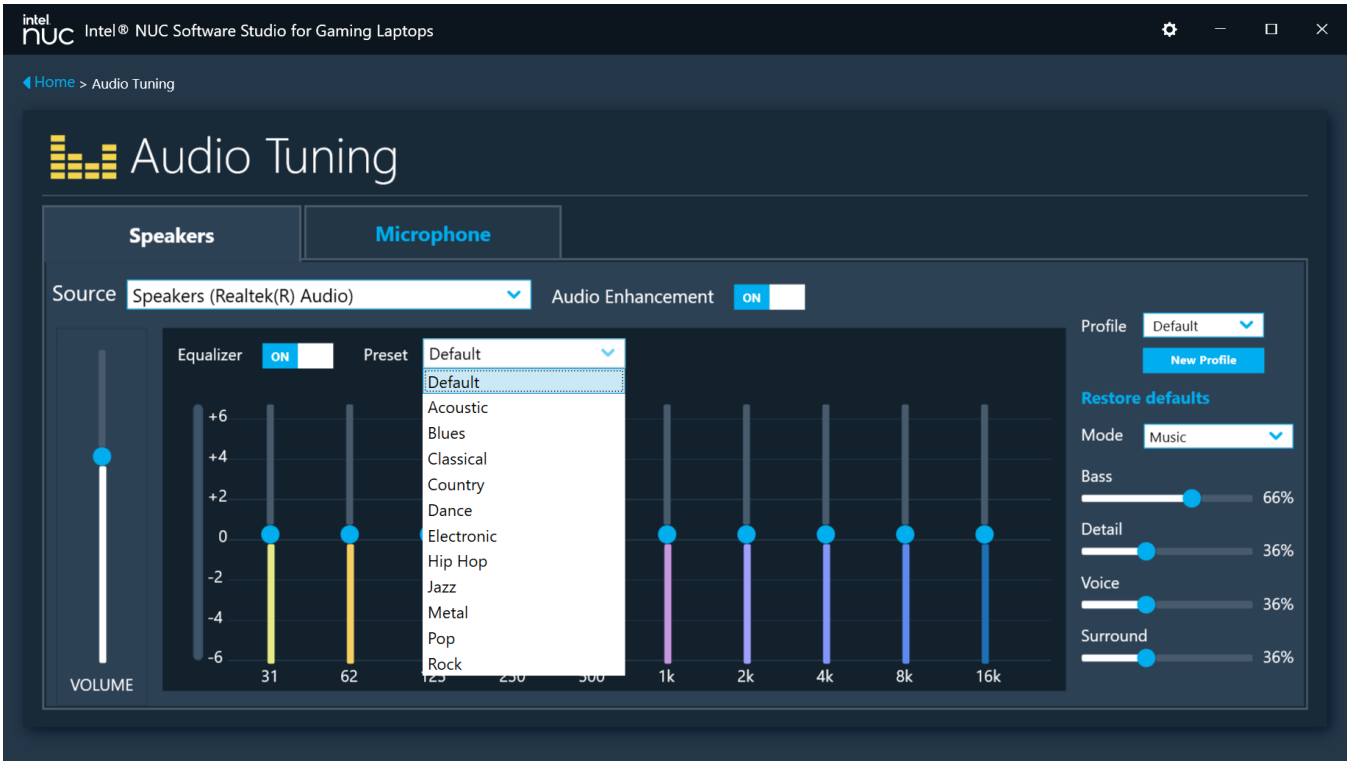
When the Equalizer toggle is On, individual sliders are available for each of the following frequencies:

- 31Hz
- 62Hz
- 125Hz
- 250Hz
- 500Hz
- 1k Hz
- 2k Hz
- 4k Hz
- 8k Hz
- 16k Hz

Audio Output – Equalizer Presets

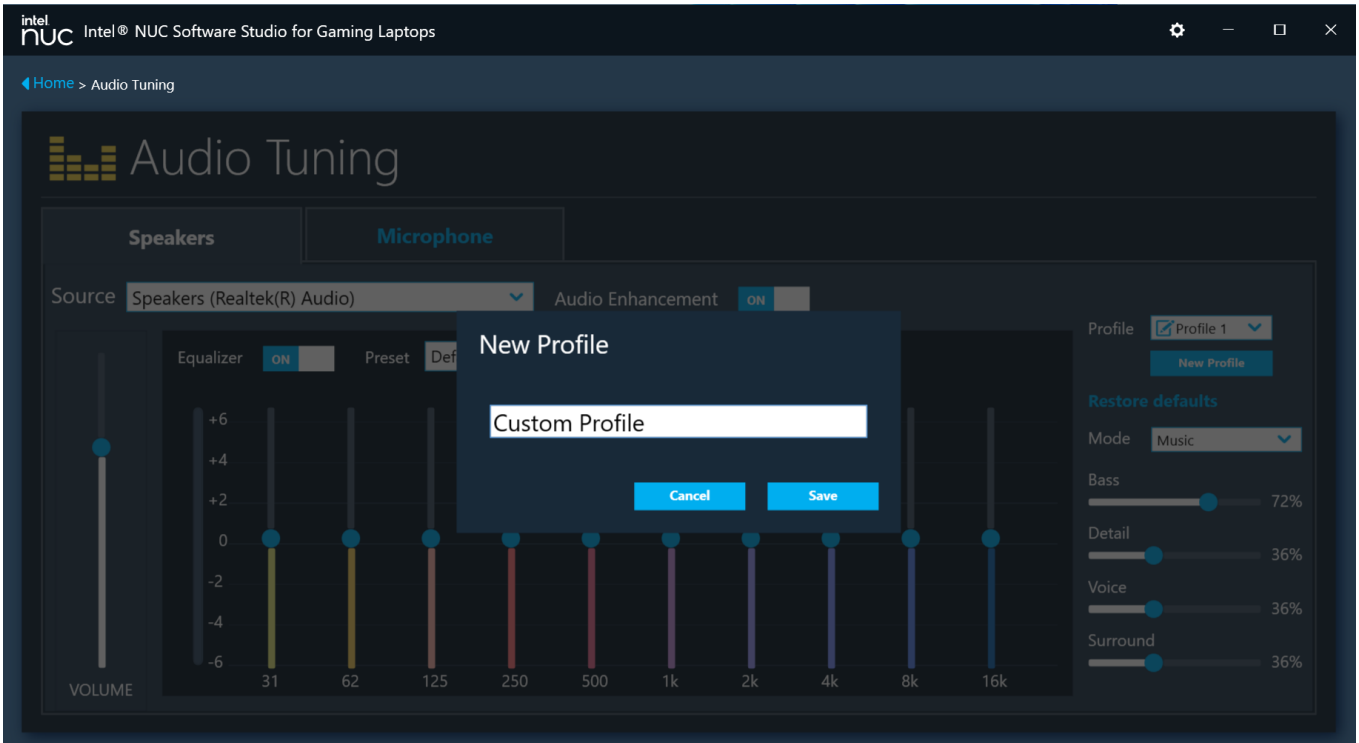
The following Presets are available when Equalizer toggle is On:

- Default
- Acoustic
- Blues
- Classical
- Country
- Dance
- Electronic
- Hip Hop
- Jazz
- Mental
- Pop
- Rock



Audio Output – Equalizer Presets

User can create custom profile by clicking New Profile button and select the Profile you want in dropdownlist.


Intel® NUC Software Studio for Gaming Laptops
Home > Audio Tuning
Audio Tuning
Speakers
Microphone
Source
Speakers (Realtek(R) Audio)
Audio Enhancement
ON
Equalizer
ON
Preset
New Profile
Custom Profile
Cancel
Save
Profile
Profile 1
New Profile
Restore defaults
Mode
Music
Bass
72%
Detail
36%
Voice
36%
Surround
36%
+6
+4
+2
0
-2
-4
-6
31
62
125
250
500
1k
2k
4k
8k
16k
VOLUME

Intel® NUC Software Studio for Gaming Laptops
Home > Audio Tuning
Audio Tuning
Speakers
Microphone
Source
Speakers (Realtek(R) Audio)
Audio Enhancement
ON
Equalizer
ON
Preset
Default
Profile
Custom Profile
Default
Profile 1
Profile 2
Custom Profile
Restore
Mode
Music
Bass
72%
Detail
36%
Voice
36%
Surround
36%
+6
+4
+2
0
-2
-4
-6
31
62
125
250
500
1k
2k
4k
8k
16k
VOLUME