RAZER VIPER V2 PRO

MASTER GUIDE

Esports has a new apex predator. As successor to the award-winning Razer Viper Ultimate, our latest evolution is nearly 20% lighter and armed with all-round upgrades for enhanced performance. With one of the lightest wireless gaming mice ever, there's now nothing holding you back.

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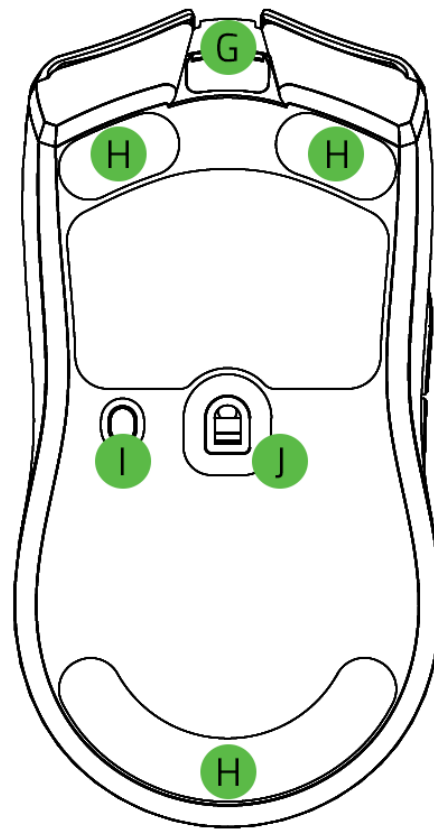
1. WHAT'S INSIDE

- Razer Viper V2 Pro
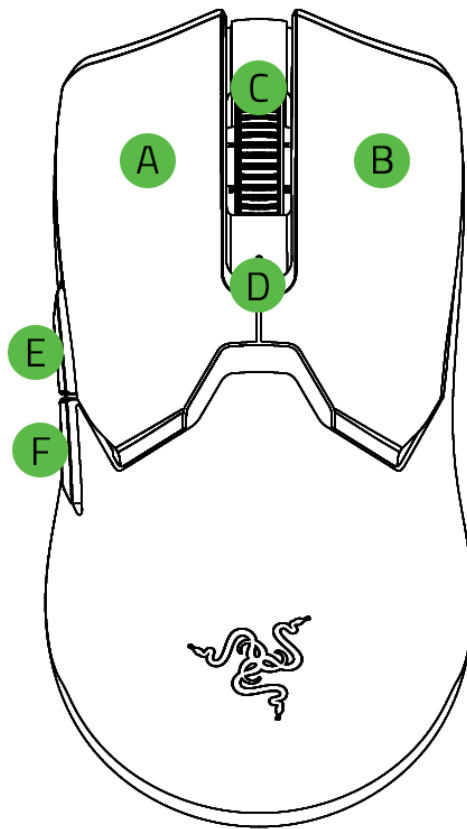
A. Left mouse button

B. Right mouse button

C. Scroll wheel
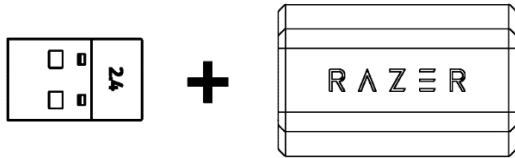
D. Status indicator

E. Mouse button 5

F. Mouse button 4

G. USB-C port

H. Ultraslick mouse feet

I. Power / DPI cycle button

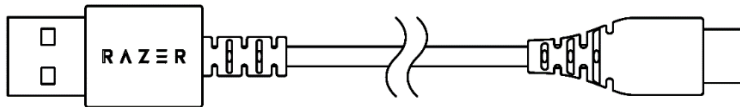J. Razer™ Focus Pro 30K DPI Optical Sensor

> ⊕ *The DPI stages are as follows: 400, 800 (default), 1600, 3200 and 6400. The DPI stages can be customized using Razer Synapse.*
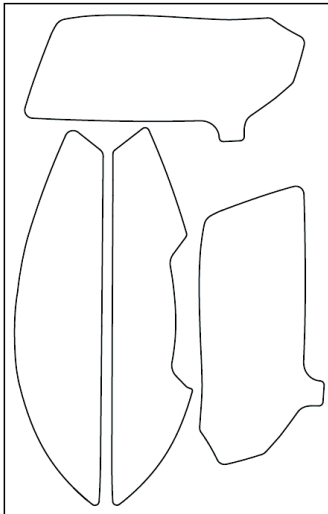
- Wireless USB dongle + USB dongle adapter

- USB-A to USB-C Speedflex cable

- Razer Mouse Grip Tape

- Important Product Information Guide

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2. WHAT'S NEEDED

PRODUCT REQUIREMENTS

- USB-A port

RAZER SYNAPSE REQUIREMENTS

- Windows® 10 64-bit (or higher)
- Internet connection for software installation

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3. TECHNICAL SPECIFICATIONS

- Form factor: Right-handed symmetrical
- Connectivity:
  - Wireless: Razer HyperSpeed Wireless
  - Wired: Speedflex Cable
- Battery life: Up to 70 hours (constant motion at 1000Hz)
- Sensor : Focus Pro 30K Optical Sensor
- Max sensitivity (DPI): 30000
- Max speed (IPS): 750
- Max acceleration (G): 70
- Programmable buttons: 5
- Switch type: Optical Mouse Switches Gen-3
- Switch lifecycle: 90-million Clicks
- On-Board memory profiles: 1
- Mouse feet: 100% PTFE
- Cable: Razer™ Speedflex cable USB Type-C
- Tilt scroll wheel: No
- Dock compatibility: No

4. LET'S GET YOU COVERED

You've got a great device in your hands, complete with a 2-year limited warranty coverage. Now maximize its potential and score exclusive Razer benefits by registering at razerid.razer.com

S/N:

Your product's serial number can be found here.

Got a question? Ask the Razer Support Team at support.razer.com

5. GETTING STARTED

CHARGING YOUR MOUSE

Plug the charging cable from any of your PC's USB ports to the Razer Viper V2 Pro. For best results, please fully charge the mouse before using it for the first time. A depleted battery will be fully charged in approximately 4 hours.
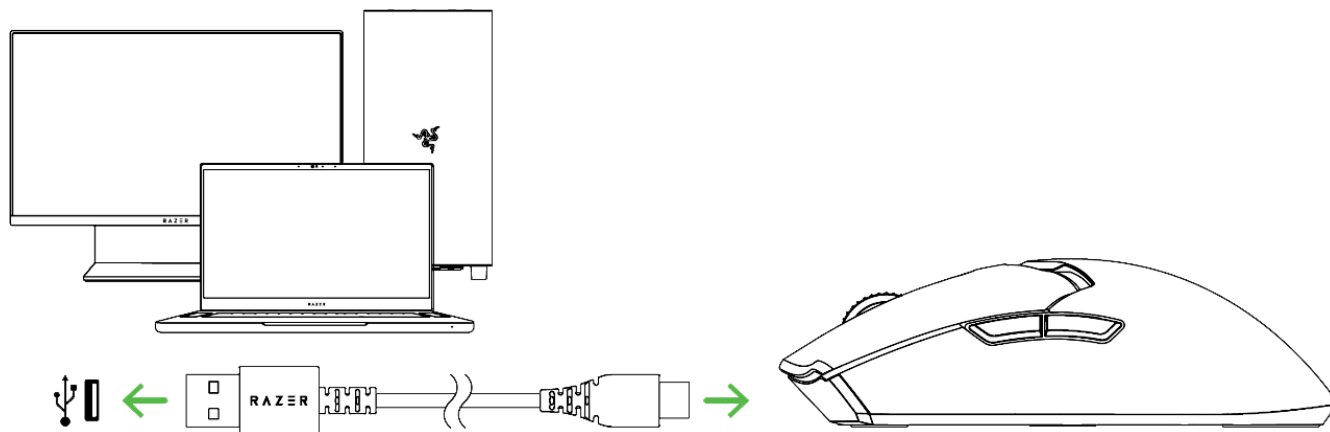
While charging, the status indicator will show the battery percentage of the mouse:

Breathing   Static

0   100%
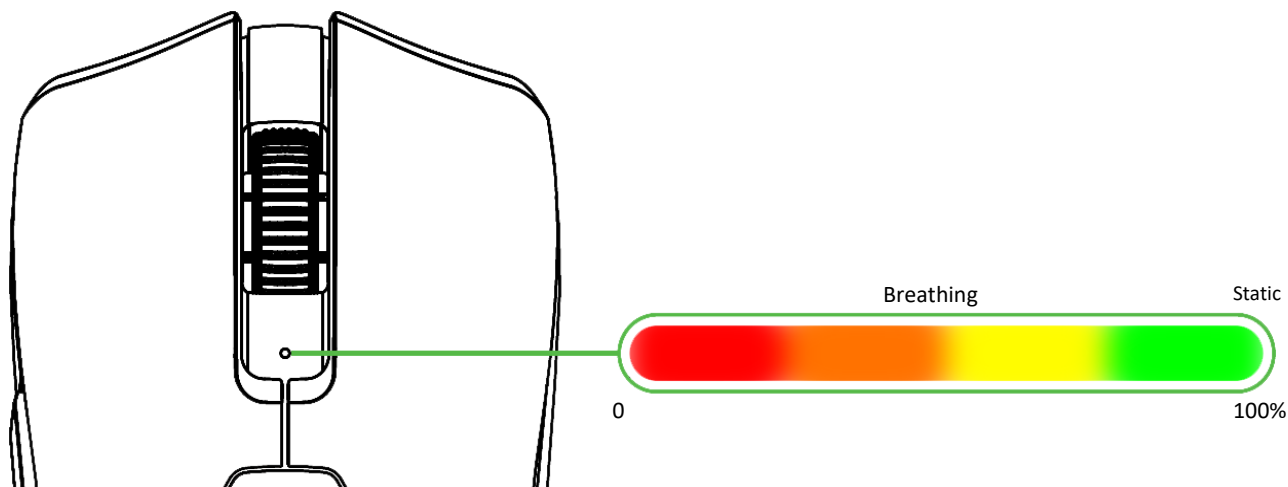
ⓘ *The Razer Viper V2 Pro requires a USB connection that can supply sufficient power to charge the device. The charging process may be affected when connecting to a non-powered USB hub or non-powered USB port mostly found on keyboards and peripherals. It's recommended to always connect the mouse directly to any of the USB ports of your PC.*

LOW POWER INDICATOR

The status indicator will blink red twice in repeated intervals to indicate that its battery's power is less than 5%. This lighting sequence will repeat until the battery is drained or the mouse is connected to a PC via the charging cable.
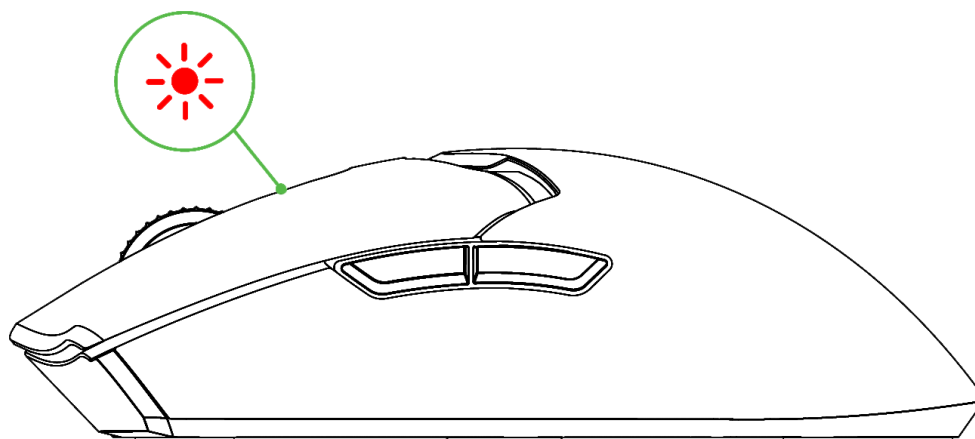
CONNECTING YOUR MOUSE

A. Via wired mode

Connect the mouse to any of your PC's USB ports using the charging cable to use it in wired mode.
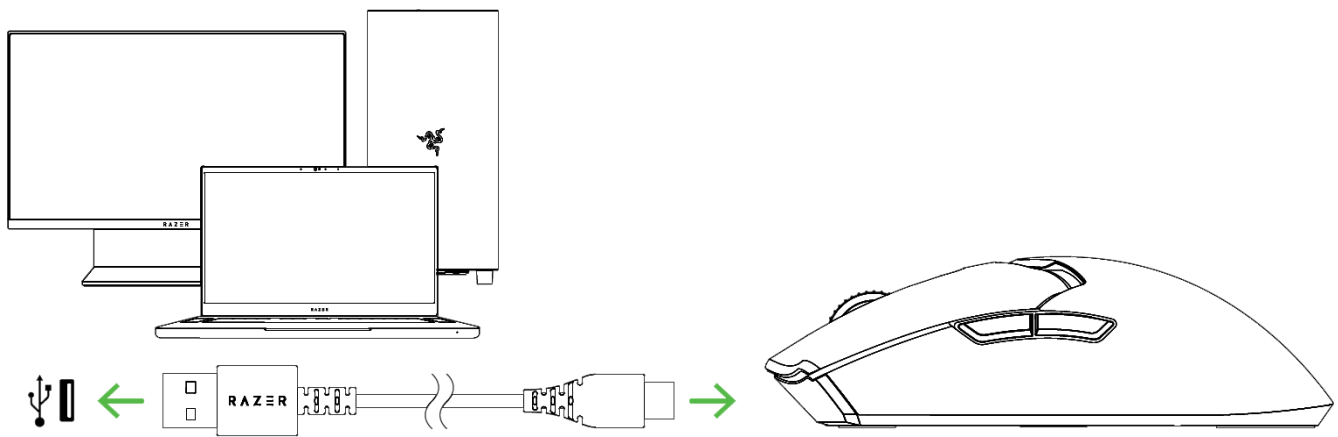
🛈 *Install Razer Synapse when prompted or download the installer from* razer.com/synapse

B. Via Razer™ Hyperspeed Wireless (2.4GHz) mode

1. Plug the wireless USB dongle into your PC.

2. Press and hold the Power / DPI cycle button for 3 seconds to power on the mouse.
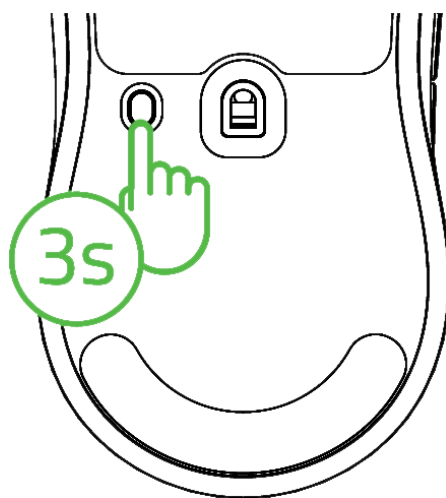
Your Razer Viper V2 Pro is now ready for use in wireless mode.

PERSONALIZING YOUR MOUSE WITH RAZER SYNAPSE

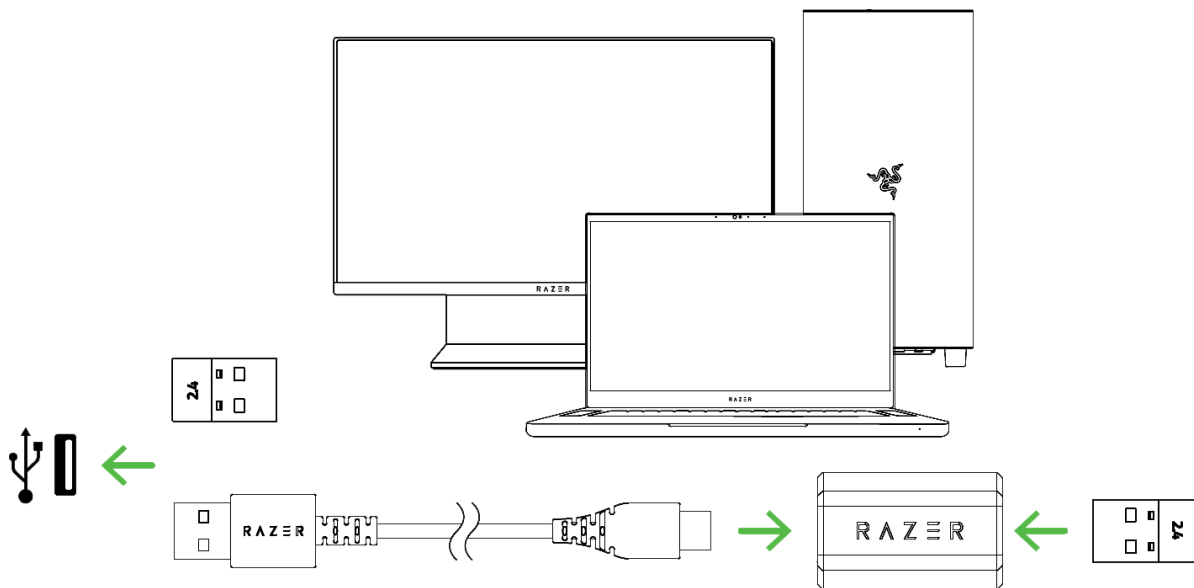Change the mouse's DPI to match your playstyle with a press of the Power / DPI cycle button or fine-tune your own sensitivity setting using the Razer Synapse app. The status indicator will briefly change its color to show which DPI stage is currently active. Learn more about Sensitivity

DPI	Designated color
400	Red
800	Green
1600	Blue
3200	Cyan
6400	Yellow

Status indicator

Power / DPI cycle button
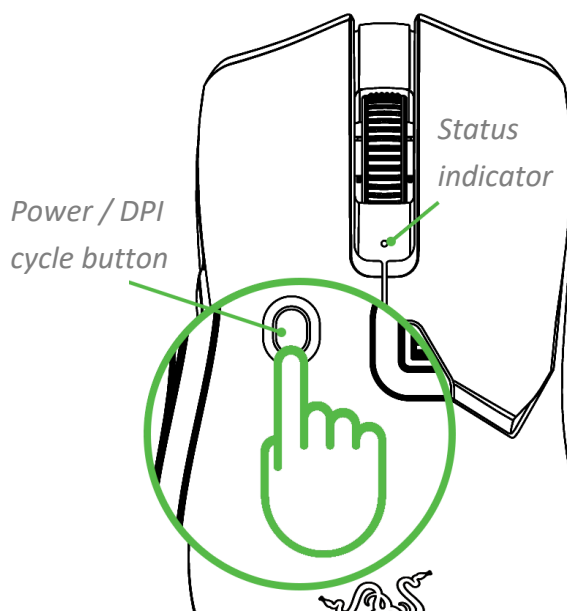
6. CONFIGURING YOUR RAZER VIPER V2 PRO

ℹ️ *Internet connection is required for installation, updates, and cloud-based features. Registering for a Razer ID account is recommended but optional. All listed features are subject to change based on the current software version, the connected device(s), and supported apps and software.*

SYNAPSE TAB

The Synapse tab is your default tab when you first launch Razer Synapse. This tab allows you to navigate the Dashboard subtab.

Dashboard

The Dashboard subtab is an overview of your Razer Synapse, where you can access all your Razer devices, modules, and online services.

DASHBOARD   MODULES   GLOBAL SHORTCUTS

▼ DEVICES

100%

RAZER VIPER V2 PRO

▼ MODULES

FEEDBACK

▼ ONLINE SERVICES

REGISTER YOUR RAZER PRODUCT   VIEW COMPATIBLE DEVICES   RAZER STORE   RAZER SUPPORT
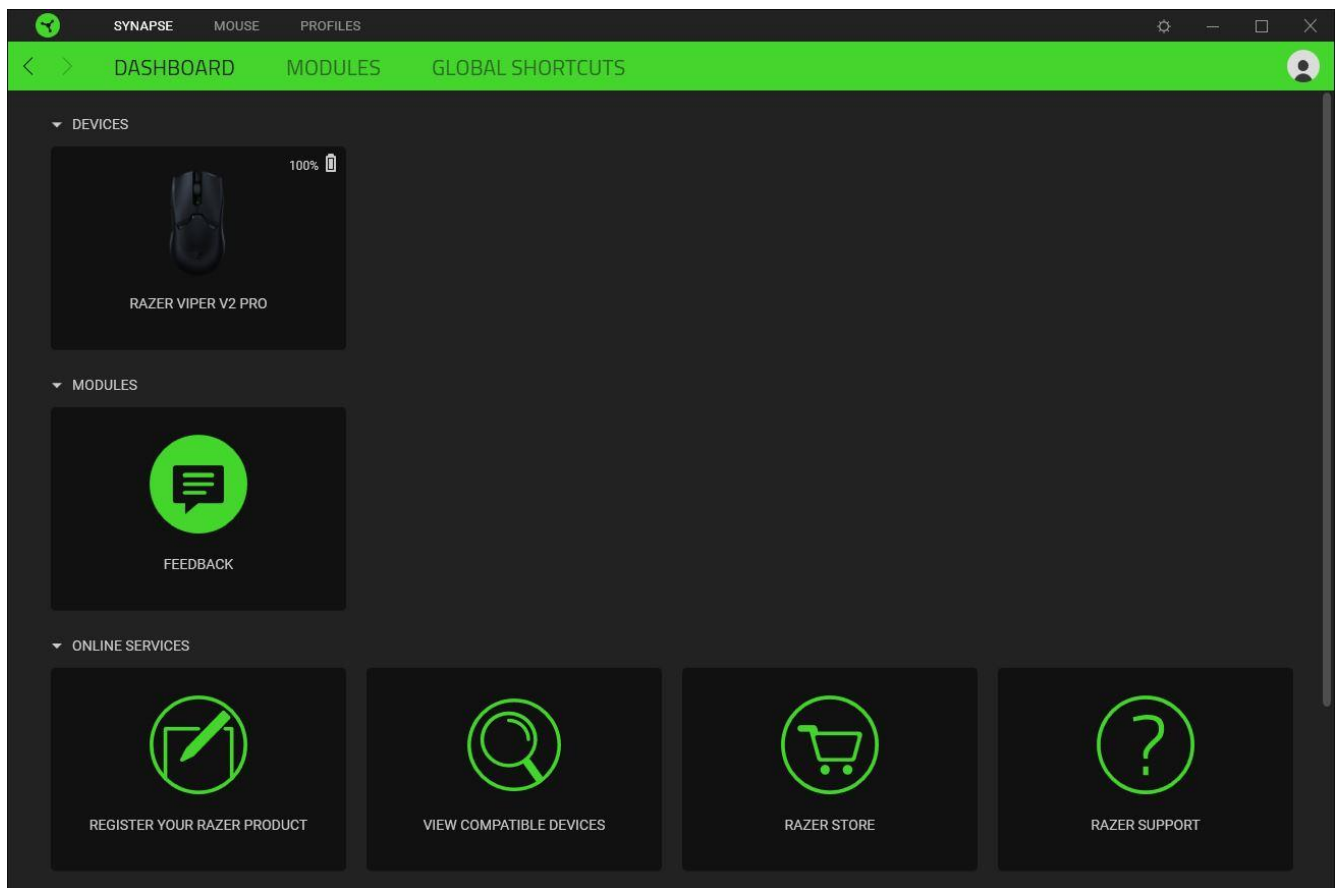
Modules

The Modules subtab displays all installed and available modules for installation.
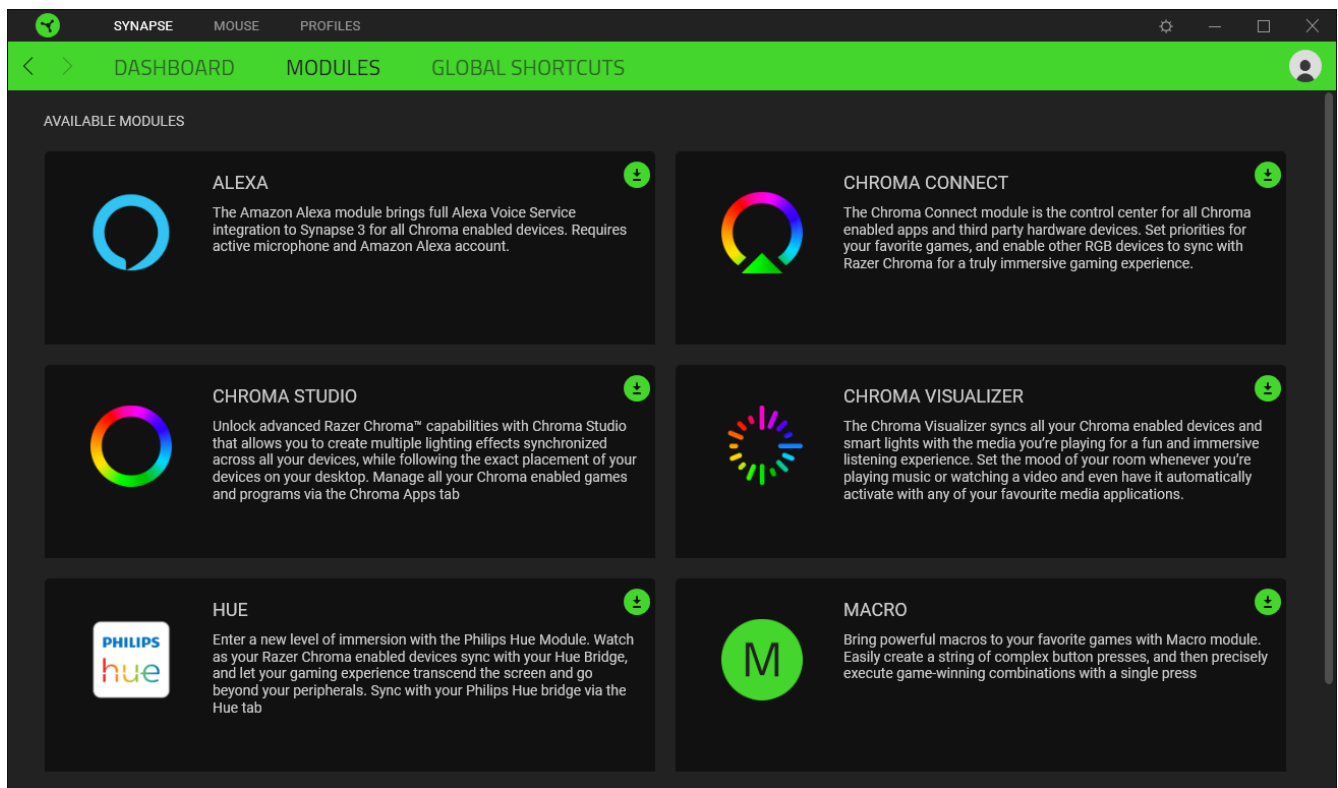
Global Shortcuts

Bind operations or Razer Synapse functions to custom key-combinations from Razer Synapse-enabled device inputs, which apply across all device profiles. Learn more about Profiles

🛈 *Only Razer Synapse-enabled device inputs will be recognized.*

MOUSE TAB

The Mouse tab is the main tab for your Razer Viper V2 Pro. From here, you can change your device's settings, such as button assignment and DPI sensitivity. Changes made under this tab are automatically saved to your system and cloud storage.

Customize

The Customize subtab is for modifying your mouse's button assignments.
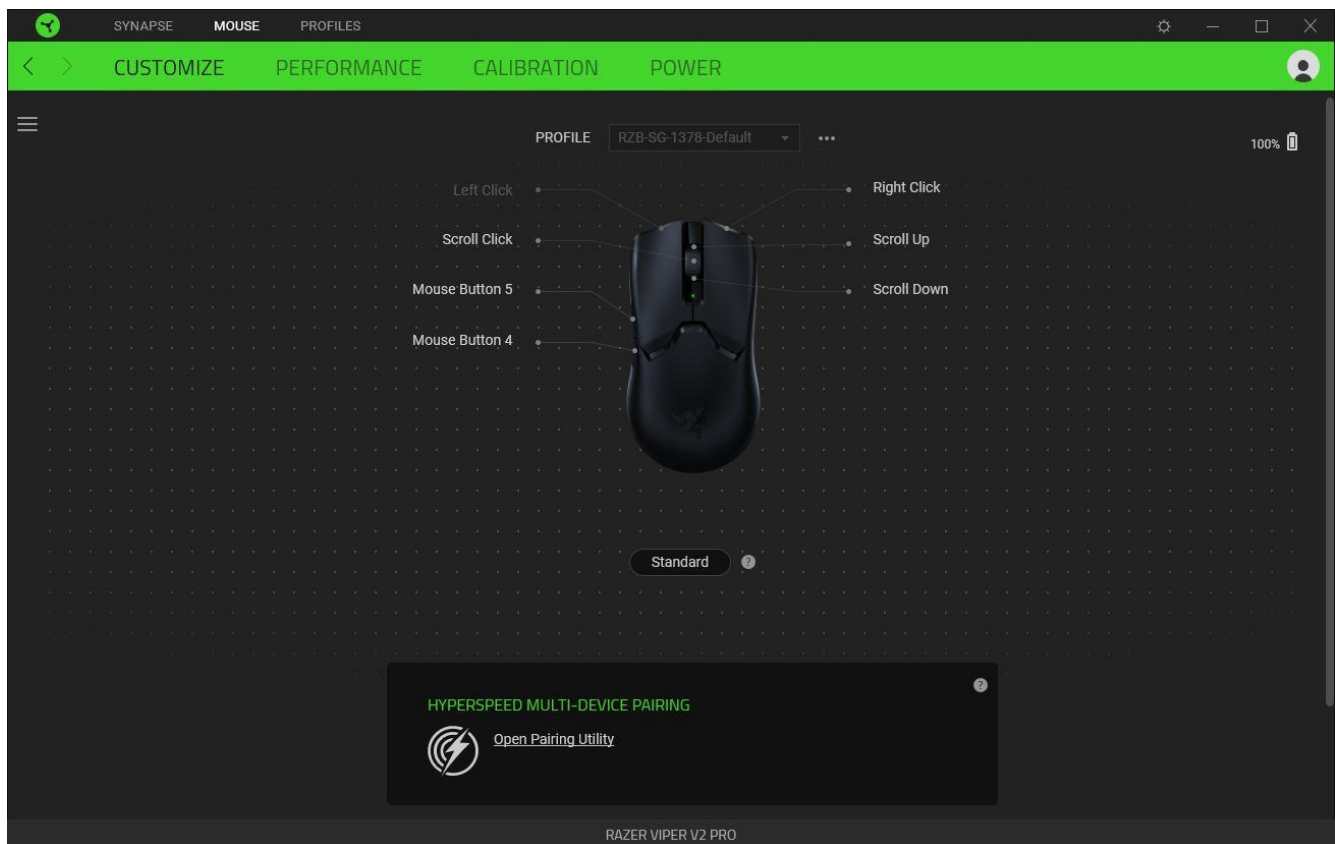
Profile

A Profile is a data storage for keeping all your Razer peripheral's settings. By default, the profile name is based on your system's name. To add, rename, duplicate, or delete a profile, simply press the Miscellaneous button (●●●).
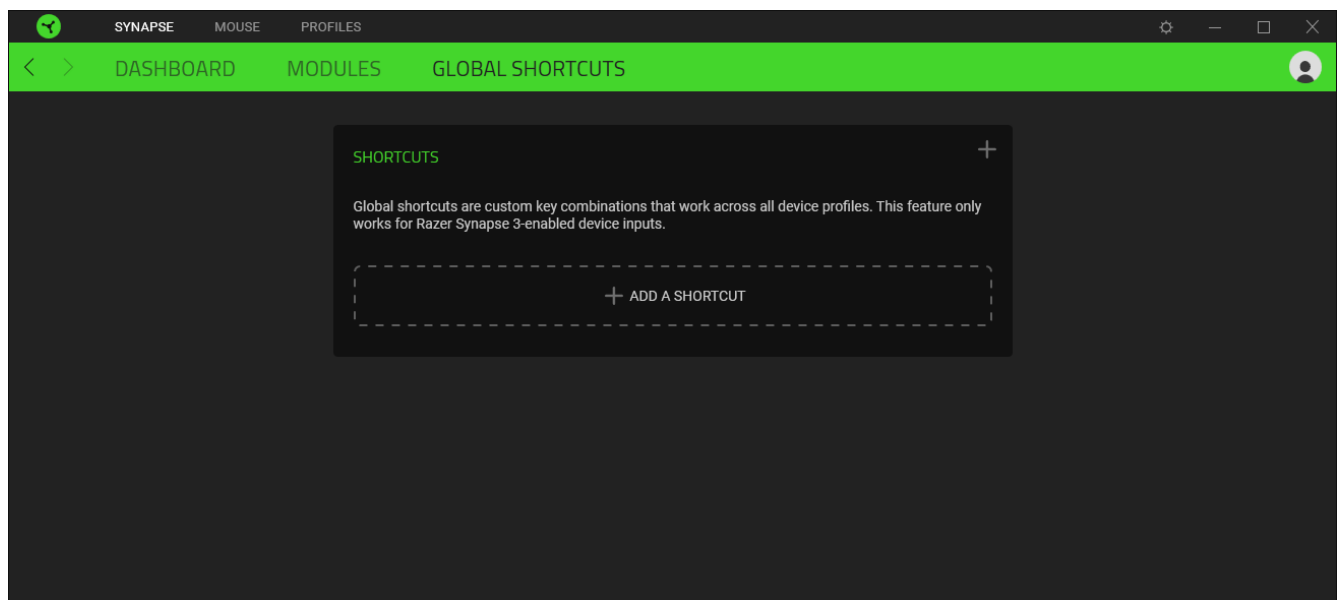
Standard / Hypershift

Hypershift mode is a secondary set of button assignments that is activated when the Hypershift key is held down. By default, the Hypershift key is assigned to the fn key of your Razer Synapse supported keyboard; however, you can also assign any mouse button as a Hypershift key.

HyperSpeed Multi-Device Pairing

Use this feature to pair an additional HyperSpeed-compatible device with the wireless USB dongle of your Razer Viper V2 Pro. As its wireless USB dongle can support a keyboard and mouse simultaneously, you'll be able to remove the usage of separate dongles for each peripheral.

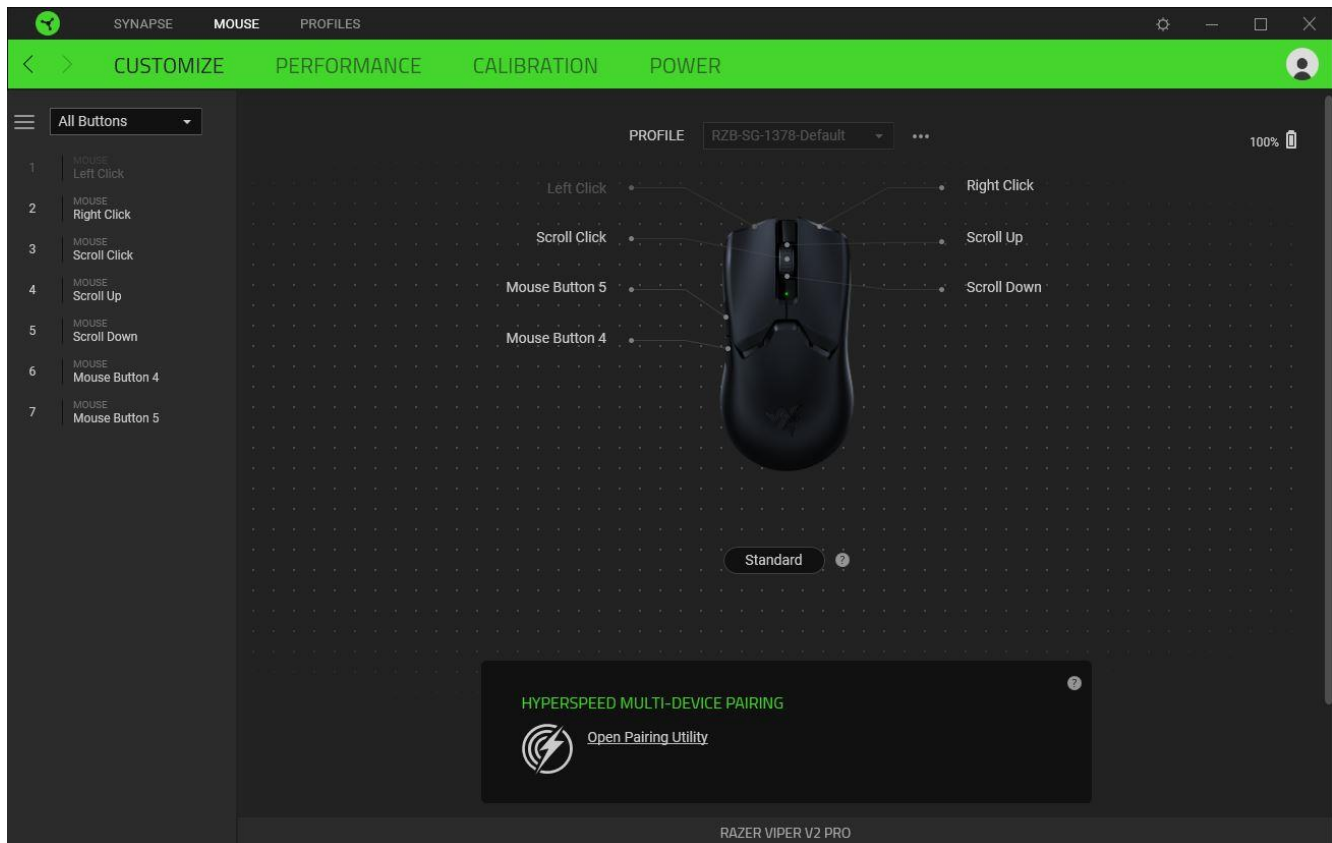🛈 *Your Razer Viper V2 Pro must be connected via HyperSpeed (2.4GHz) wireless mode to use this feature. Each peripheral can only connect to one dongle at a time.*
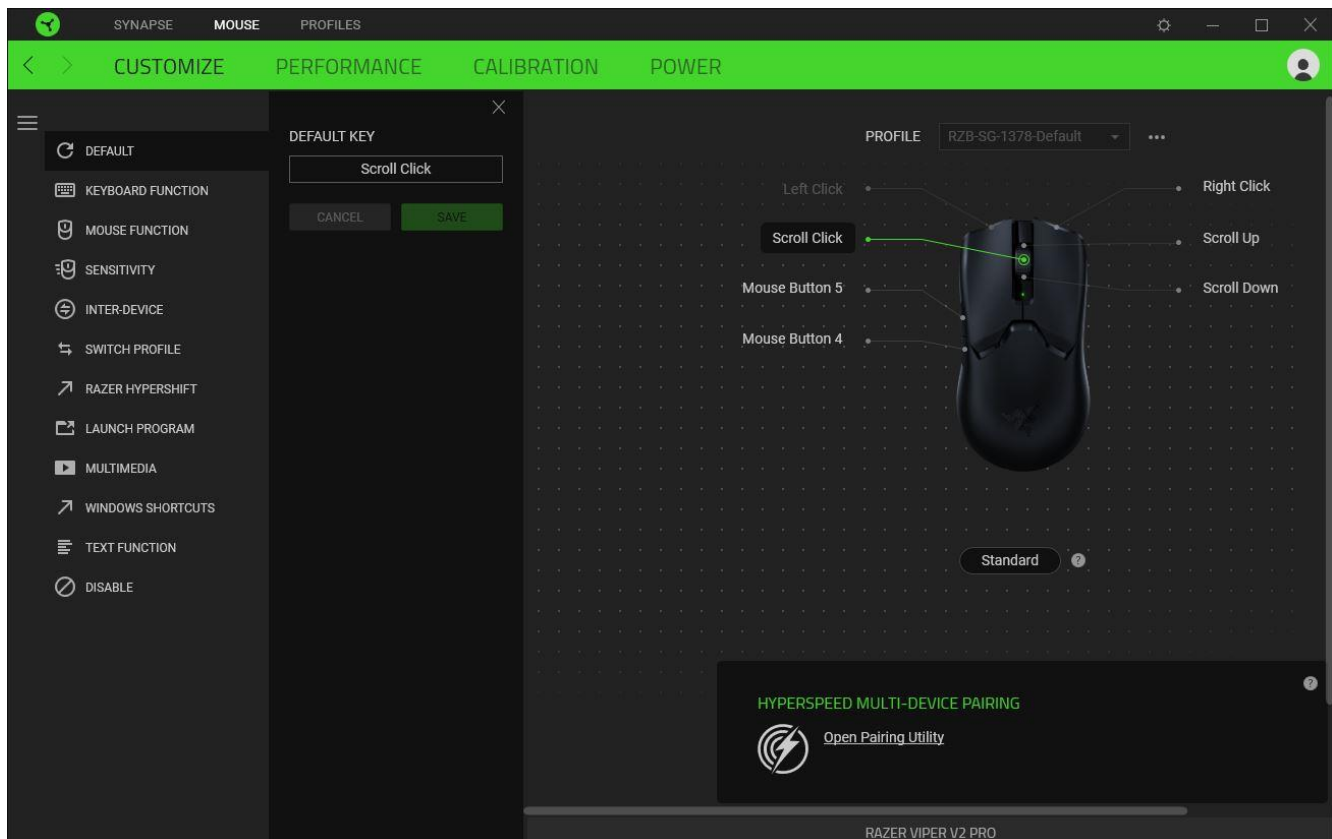
The Sidebar button (☰) will reveal all current button assignments for your Razer Viper V2 Pro.

Alternatively, you can skip to a specific button assignment by selecting it on the Customize tab.

Upon selecting a button assignment, you may then change it to one of the following functions:

⟳ Default

This option enables you to return the mouse button to its original setting.

⌨ Keyboard Function

This option changes the button assignment into a keyboard function. You can also enable Turbo mode, which can emulate a repeated keyboard function while the button is held down.

🖱 Mouse Function

This option substitutes the current button assignment for another mouse function. Listed below are the functions which you can choose from:

- Left Click - Performs a left mouse click using the assigned button.
- Right Click - Performs a right mouse click using the assigned button.
- Scroll Click - Activates the universal scrolling function.
- Double Click - Performs a double left click using the assigned button.
- Mouse Button 4 - Performs a "Backward" command for most internet browsers.
- Mouse Button 5 - Performs a "Forward" command for most internet browsers.
- Scroll Up - Performs a "Scroll Up" command using the assigned button.
- Scroll Down - Performs a "Scroll Down" command using the assigned button.
- Scroll Left - Performs a "Scroll Left" command using the assigned button.
- Scroll Right - Performs a "Scroll Right" command using the assigned button.

You can also choose to enable Turbo mode in some of the mouse functions, which allows you to emulate repeatedly pressing and releasing a said function while the button is held down.

⌨🖱 Sensitivity

This function allows you to manipulate the DPI setting of your Razer Viper V2 Pro with a touch of a button. Listed below are the Sensitivity options and their description:

- Sensitivity Clutch - Changes the sensitivity to a predefined DPI while the designated button is held down. Releasing the button will return it to the previous sensitivity.
- Sensitivity Stage Up - Increases the current sensitivity by one stage.
- Sensitivity Stage Down - Decreases the current sensitivity by one stage.

- **On-The-Fly Sensitivity** - Pressing the designated button and moving the scroll wheel either up or down will increase or decrease the current DPI respectively.

- **Cycle Up Sensitivity Stages** - Increases the current sensitivity stage by one. Once it reaches the highest sensitivity stage, it will return to stage 1 when the button is pressed again.

- **Cycle Down Sensitivity Stages** - Decreases the current sensitivity stage by one. Once it reaches stage 1, it will return to the highest sensitivity stage when the button is pressed again. <u>Learn more about Sensitivity Stages</u>

M Macro

A Macro is a prerecorded sequence of keystrokes and button presses that is executed with precise timing. By setting the button function to Macro, you can conveniently execute a chain of commands. This function will only be visible when the Macro module is installed.

Inter-device

Inter-device allows you to change the functionality of other Razer Synapse-enabled devices. Some of these functionalities are device-specific such as using your Razer keyboard to change the Sensitivity Stage of your Razer mouse.

Switch Profile

Switch Profile enables you to quickly change profiles and load a new set of button assignments. An on-screen notification will appear whenever you switch profiles.

Razer Hypershift

Setting the button to Razer Hypershift will allow you to activate Hypershift mode as long as the button is held down.

Launch Program

Launch Program enables you to open an app or a website using the assigned button. When you select Launch Program, two choices will appear, requiring you to search for a specific app you want to open or write the address of the website you want to visit.

Multimedia

This option allows you to assign multimedia controls to your Razer device. Listed below are the multimedia controls you can choose from:

- Volume Down - Decreases the audio output.

- Volume Up - Increases the audio output.

- Mute Volume - Mutes the audio.

- Mic Volume Up - Increases the microphone volume.

- Mic Volume Down - Decreases the microphone volume.

- Mute Mic - Mutes the microphone.

- Mute All - Mutes both microphone and audio output.

- Play / Pause - Play, pause, or resume playback of the current media.

- Previous Track - Play the previous media track.

- Next Track - Play the next media track.

Windows Shortcuts

This option allows you to assign your preferred button to a Windows Operating System shortcut command. For more information, please visit: support.microsoft.com/kb/126449

Text Function

Text Function enables you to type a prewritten text with a touch of a button. Write your desired text on the given field, and your text will be typed whenever the assigned button is pressed. This function has full Unicode support, and you can also insert special symbols from character maps.

Disable

This option renders the assigned button unusable. Use Disable if you do not want to use the selected button or if it interferes with your work.

Performance

The Performance subtab allows you to modify the sensitivity, acceleration, and polling rate.
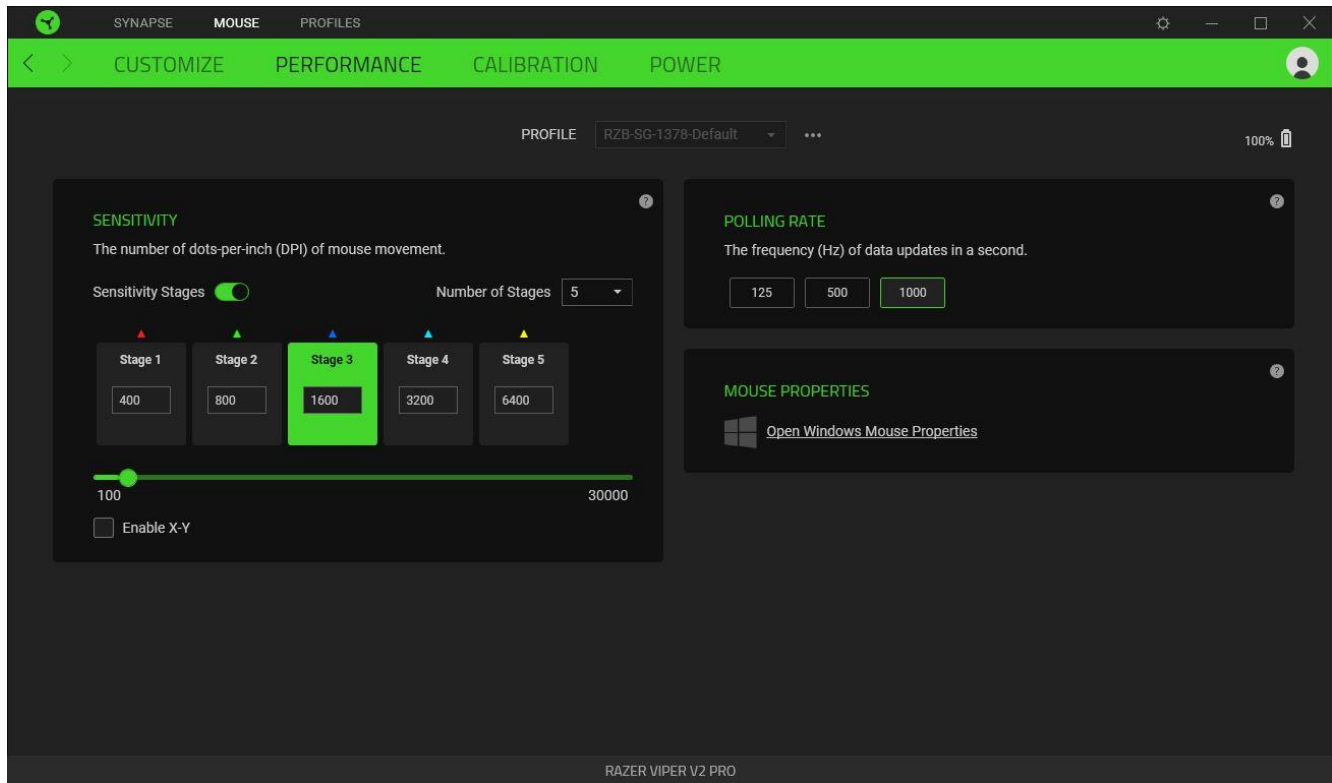
Sensitivity

Sensitivity refers to the distance the cursor will travel based on how far the mouse moved. The higher the DPI, the farther the cursor will travel, given the same mouse movement distance.

Sensitivity Stages

A sensitivity stage is a preset sensitivity value. You can create up to 5 different sensitivity stages, which you can cycle through using the DPI cycle button.

Enable X-Y Sensitivity

The X-axis (horizontal) and Y-axis (vertical) use the same sensitivity values by default. However, you may set different sensitivity values for each axis by selecting the Enable X-Y Sensitivity option.

Polling Rate

The higher the polling rate, the more often the computer receives information about the status of your mouse, thus increasing the mouse pointer's reaction time. You can switch between 125Hz (8ms), 500Hz (2ms), and 1000Hz (1ms) by selecting your desired polling rate from the options provided.

Mouse Properties

From here, you can access the Windows Mouse Properties to modify operating system settings that can directly affect your Razer Viper V2 Pro.

Calibration

The Calibration subtab allows you to optimize your Razer Precision Sensor to any surface for better tracking.

Smart Tracking

Smart tracking enables you to set the distance the sensor stops tracking when lifted from its surface to avoid unwanted cursor movement. You may assign different lift-off and landing distances values by selecting the Enable Asymmetric Cut-Off.
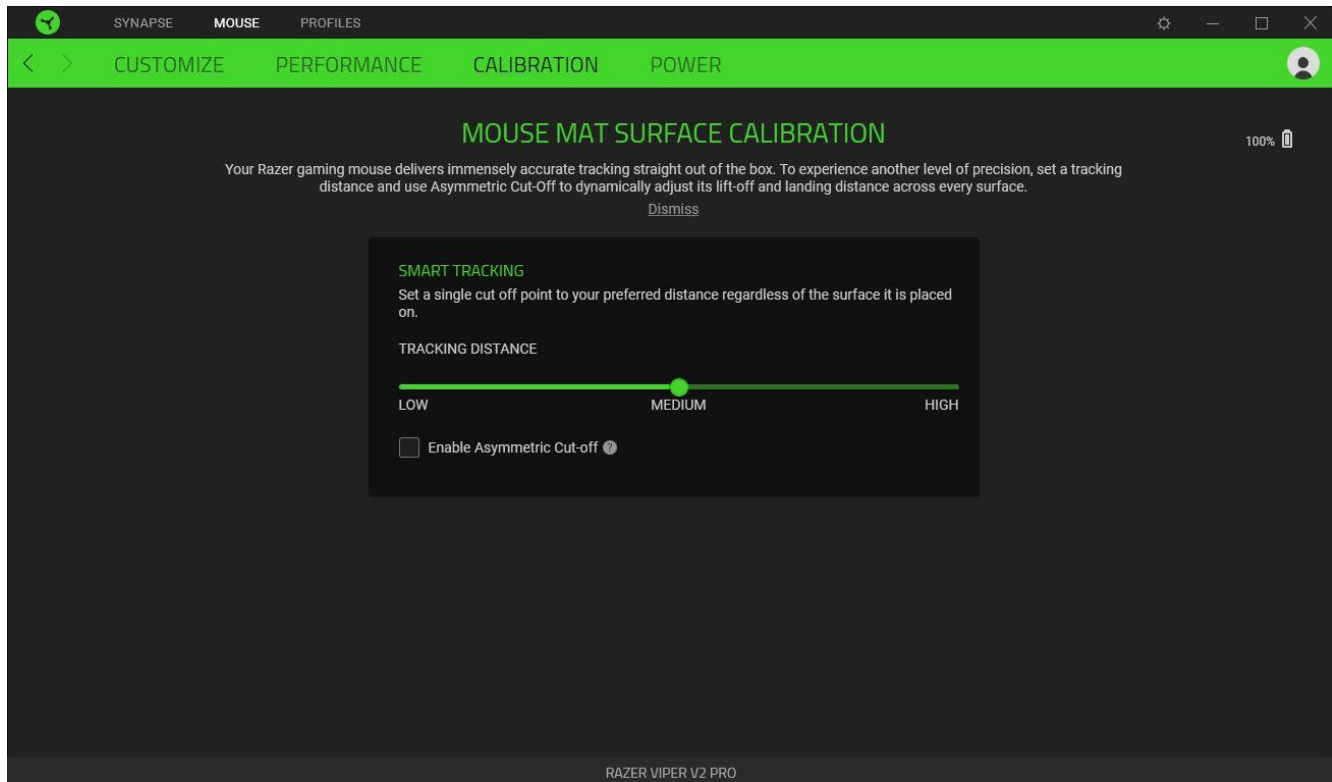
Power

The Power subtab allows you to manage your device's energy consumption by setting it to power off when it has been idle for a certain amount of time. You may also adjust the required battery percentage of the mouse when entering Low Power Mode to conserve battery life.
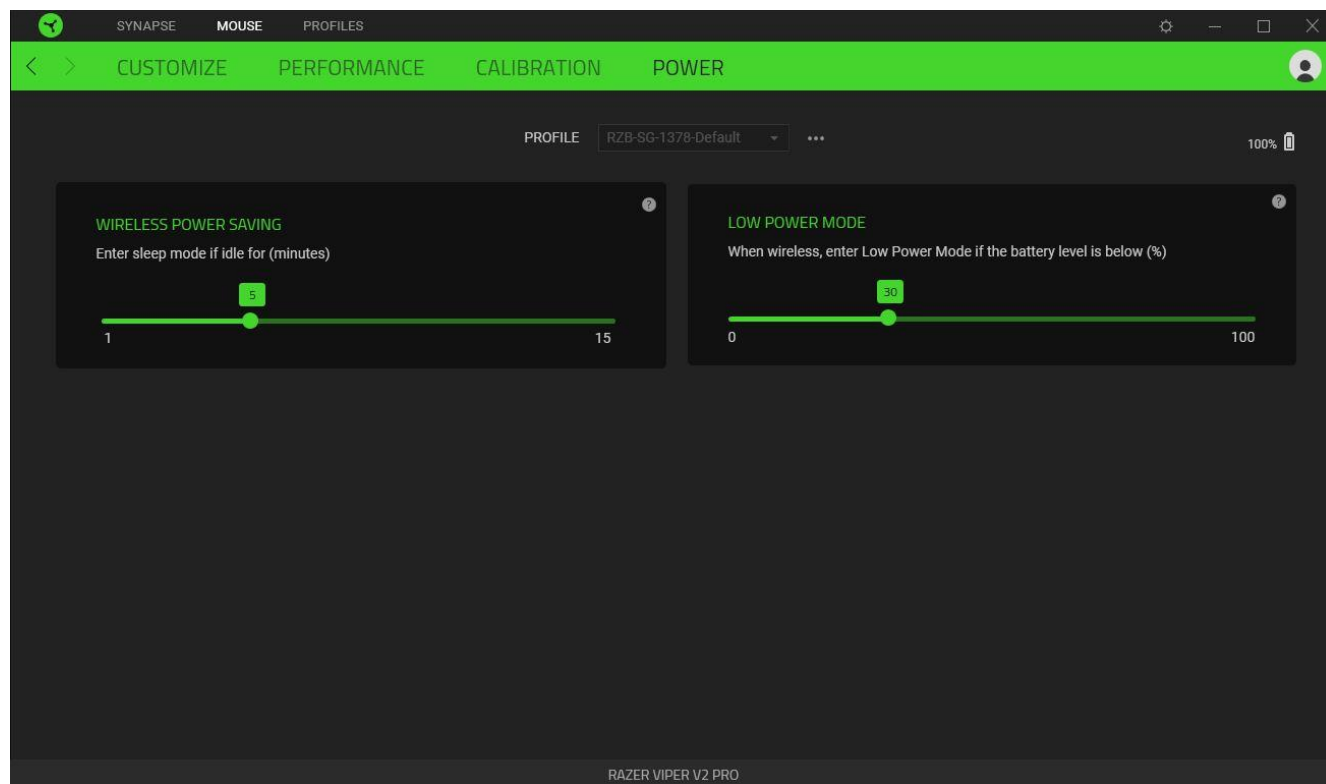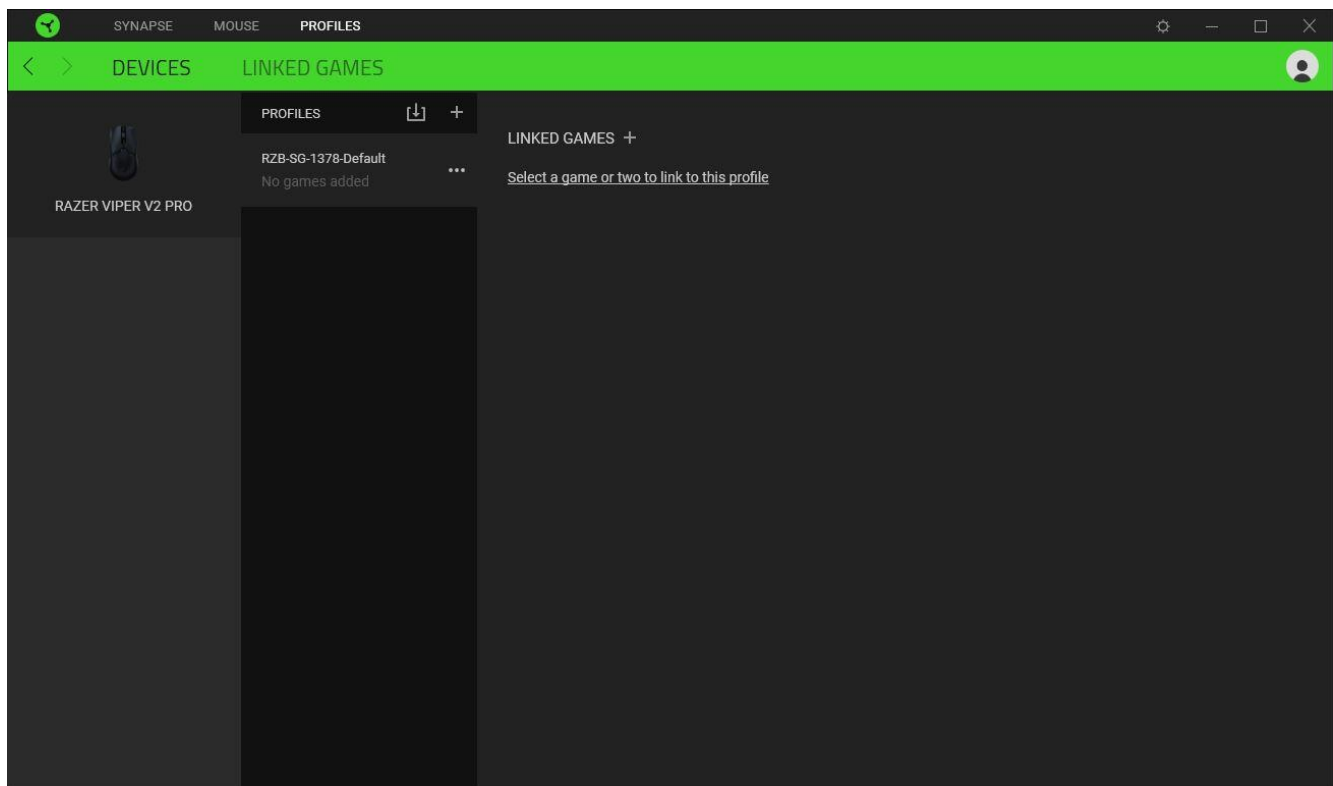
PROFILES TAB

The Profiles tab is a convenient way of managing all your profiles and linking them to your games and applications.

Devices

View which games are linked to each device's profiles or which Chroma Effect is linked to specific games using the Devices subtab.

You can import Profiles from your computer or the cloud through the import button (📥) or create new profiles within the selected device using the add button (＋). To rename, duplicate, export, or delete a profile, simply press the Miscellaneous button (•••). Each profile can be set to automatically activate when you run an application using the Linked Games option.

Linked Games

The Linked Games subtab gives you the flexibility to add games, view devices that are linked to games, or search for added games. You can also sort games based on alphabetical order, last played, or most played. Added games will still be listed here even if it is not linked to a Razer device.
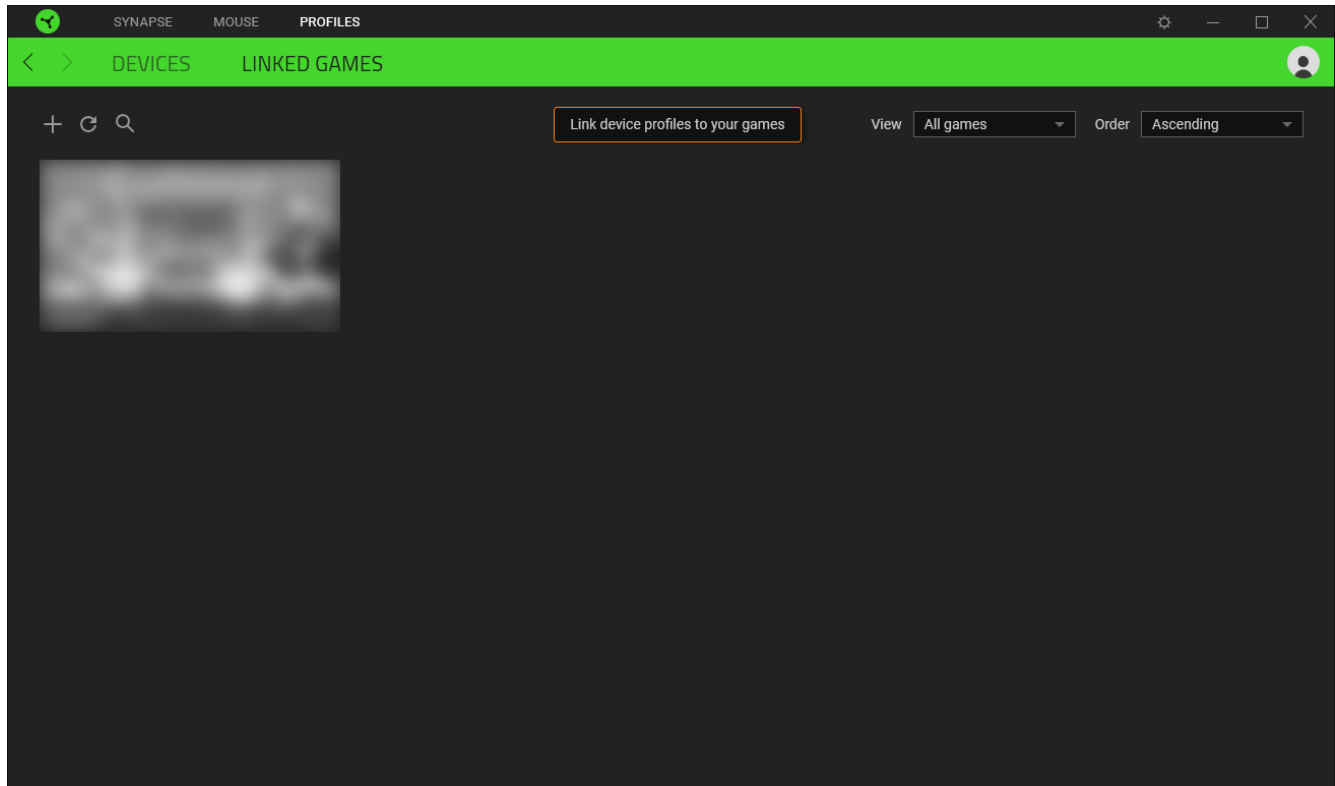
To link games to connected Razer devices or Chroma Effects, click on any game from the list, and then click **Select a device and its profile to launch automatically during gameplay** to select the Razer device or Chroma Effect it will link with. Once linked, you may click on the Miscellaneous button (●●●) of the corresponding Chroma Effect or device to select a specific Chroma Effect or profile.

SETTINGS WINDOW

The Settings window, accessible by clicking the (☼) button on Razer Synapse, enables you to configure the startup behavior and display language of Razer Synapse, view the master guides of each connected Razer device, or perform a factory reset on any connected Razer device.
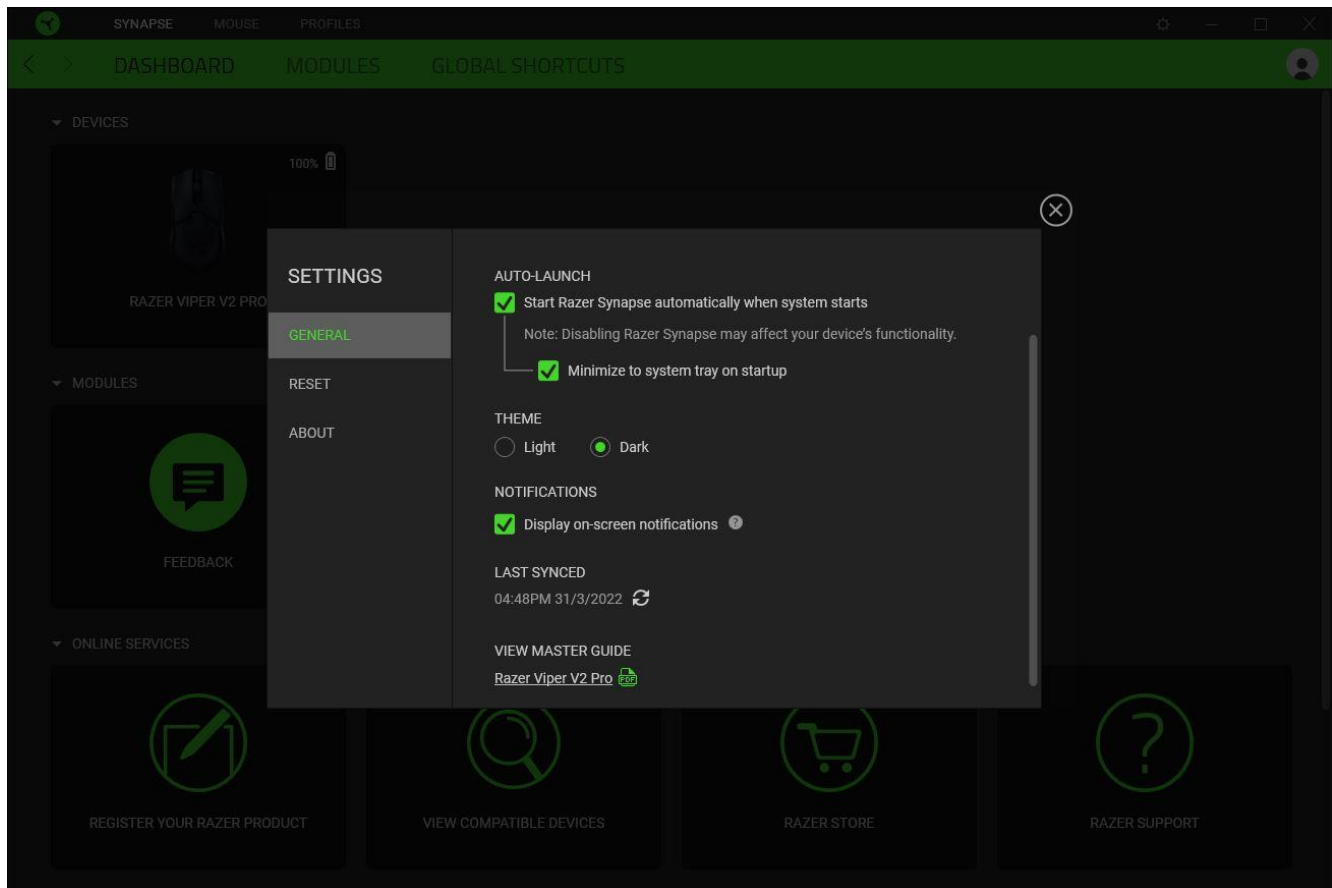
General tab

The default tab of the Settings window, the General tab, enables you to change the software's display language, start-up behavior, display theme, and on-screen notifications display. You may also manually sync your profiles to the cloud (⟳) or view the master guide of all connected Razer devices and installed modules.

Reset tab

The Reset tab allows you to perform a factory reset on all connected Razer devices with on-board memory and/or reset Razer Synapse tutorials to acquaint yourself again with Razer Synapse's new features on its next launch.

🛈 *All profiles stored on the selected device's on-board memory will be erased by resetting a Razer device.*

About tab

The About tab displays brief software information, copyright statement and provides relevant links for its terms of use. You may also use this tab to check for software updates or as a quick access to Razer's social communities.

7. SAFETY AND MAINTENANCE

SAFETY GUIDELINES

To achieve maximum safety while using your Razer Viper V2 Pro, we suggest that you adopt the following guidelines:

Should you have trouble operating the device properly and troubleshooting does not work, unplug the device and contact the Razer hotline or go to support.razer.com for support.

Do not take apart the device and do not attempt to operate it under abnormal current loads. Doing so will void your warranty.

Recharge the mouse before use if the Razer Viper V2 Pro has not been used for an extended period.

Keep the device away from liquid, humidity, or moisture. Operate the device only within the specific temperature range of 0°C (32°F) to 40°C (104°F). Should the temperature exceed this range, unplug and/or switch off the device to let the temperature stabilize to an optimal level.

COMFORT

Research has shown that long periods of repetitive motion, improper positioning of your computer peripherals, incorrect body position, and poor habits may be associated with physical discomfort and injury to nerves, tendons, and muscles. Below are some guidelines to avoid injury and ensure optimum comfort while using your Razer Viper V2 Pro.

- Position your keyboard and monitor directly in front of you with your mouse next to it. Place your elbows next to your side, not too far away, and your keyboard within easy reach.
- Adjust the height of your chair and table so that the keyboard and mouse are at or below elbow height.
- Keep your feet well supported, posture straight, and your shoulders relaxed.
- During gameplay, relax your wrist and keep it straight. If you repeatedly do the same tasks with your hands, try not to bend, extend or twist your hands for long periods.
- Don't rest your wrists on hard surfaces for long periods. Use a wrist rest to support your wrist while gaming.
- Don't sit in the same position all day. Get up, step away from your desk and do exercises to stretch your arms, shoulders, neck, and legs.
- If you should experience any physical discomfort while using your mouse, such as pain, numbness, or tingling in your hands, wrists, elbows, shoulders, neck, or back, please consult a qualified medical doctor immediately.

MAINTENANCE AND USE

The Razer Viper V2 Pro requires minimum maintenance to keep it in optimum condition. Once a month, we recommend you clean the device using a soft cloth or cotton swab to prevent dirt buildup. Don't use soap or harsh cleaning agents.

To get the ultimate experience in movement and control, we highly recommend a premium mouse mat from Razer. Some surfaces will cause undue wear on the feet requiring constant care and eventual replacement.

Do note that the Razer Viper V2 Pro's sensor is 'tuned' or optimized, especially for the Razer mouse mats. This means that the sensor has been tested extensively to confirm that the Razer Viper V2 Pro reads and tracks best on Razer mouse mats.

BATTERY WARNING

The Razer Viper V2 Pro contains a Li-ion rechargeable battery. In general, the life expectancy of such batteries is dependent upon usage. If you suspect that the Li-ion rechargeable battery inside the Razer Viper V2 Pro may be drained (has a low charge), try charging it.

Caution: Don't open, mutilate, or expose to conducting materials (metal), moisture, liquid, fire, or heat. Doing so may cause batteries to leak or explode, resulting in personal injury. Battery life varies with usage.

8. LEGALESE

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