DIAMONDBACK

10 years ago, we announced the world's first optical gaming mouse - the Razer Diamondback. A collaboration between award winning industrial designers, industry leading engineers and top pro-gamers (known as eSports athletes today), the Razer Diamondback has gone into the annals of gaming history as one of the greatest gaming mice ever created

The Razer Diamondback is updated with today's technology for unmatchable speed and accuracy. Packed in an enhanced comfortable, lightweight form factor with rubber side grips for more control, the Razer Diamondback features the world's most precise 16,000 DPI gaming sensor and is Chroma enabled, giving you access to the full spectrum of 16.8 million color options, so you can blaze through the battlefield in impeccable style.

CONTENTS

1. PACKAGE CONTENTS / SYSTEM REQUIREMENTS

PACKAGE CONTENTS

- Razer Diamondback Gaming Mouse
- Important Product Information Guide

SYSTEM REQUIREMENTS

- PC or Mac with a free USB 2.0 port
- Windows® 10 / Windows® 8 / Windows® 7 / Mac OS X (10.8-10.10)
- Internet connection
- 100MB of free hard disk space

2. REGISTRATION / TECHNICAL SUPPORT

REGISTRATION

Visit www.razerzone.com/razer-id to sign up for a Razer ID now to get a wide range of Razer benefits. For example, get real-time information on your product's warranty status via Razer Synapse. To learn more about Razer Synapse and all its features, visit www.razerzone.com/synapse. If you already have a Razer ID, register your product by clicking on your email address within the Razer Synapse application and select *Warranty Status* from the dropdown list. To register your product online, visit www.razerzone.com/registration. Please note that you will not be able to view your warranty status if you register via the website.

Your product's serial number can be found here
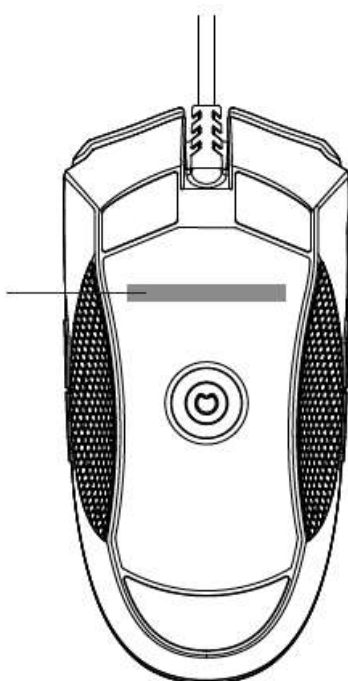
TECHNICAL SUPPORT

What you'll get:
- 2 years limited manufacturer's warranty.
- Free online technical support at www.razersupport.com.

3. TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

- Ambidextrous form factor

- 16,000 DPI 5G laser sensor

- Up to 210 inches per second / 50 g acceleration

- 1,000 Hz Ultrapolling

- On-The-Fly Sensitivity adjustment

- Chroma customizable lighting

- Inter-device color synchronization

- 9 programmable Hyperesponse buttons

- Razer Synapse enabled

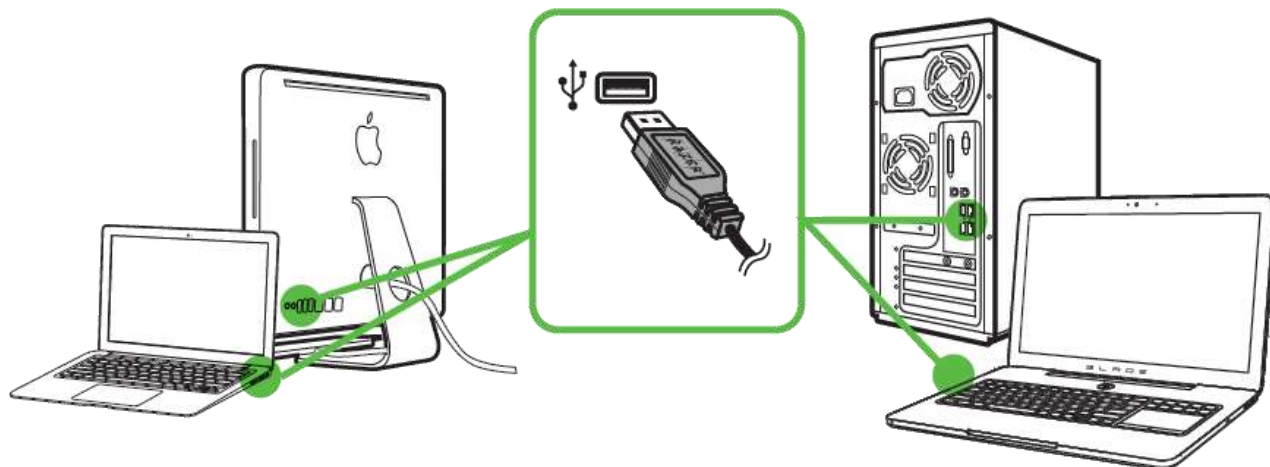- 2.1 m / 7 ft braided fiber cable

APPROXIMATE SIZE & WEIGHT

- Length   125 mm / 4.92 in

- Width   60 mm / 2.64 in

- Height   30 mm / 1.18 in

- Weight   89g / 0.09 lbs

4. DEVICE LAYOUT
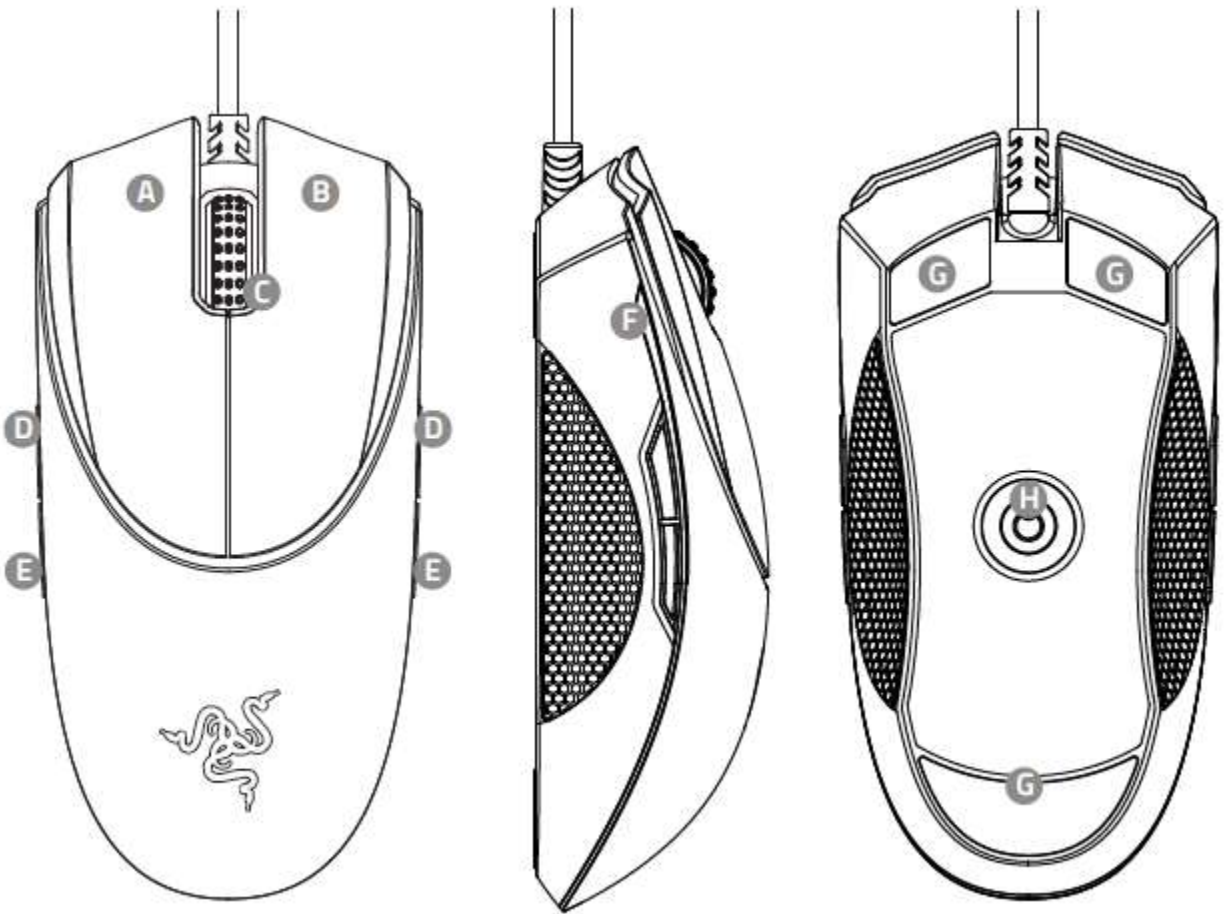
A. Left mouse button
B. Right mouse button
C. Scroll wheel
D. Mouse button 5
E. Mouse button 4
F. Side strip lighting
G. Ultraslick mouse feet
H. 16,000 DPI 5G sensor

5. INSTALLING YOUR RAZER DIAMONDBACK

Step 1: Connect your Razer device to the USB port of your computer.
Step 2: Install Razer Synapse when prompted* or download the installer from
www.razerzone.com/synapse.
Step 3: Register for a Razer ID or log in to Synapse with an existing account.

*Applicable for Windows 8 or later.

Note: By default, the Razer Diamondback is set to Wave. To customize the lighting, please install Razer Synapse.

6. CONFIGURING YOUR RAZER DIAMONDBACK

Disclaimer: The features listed here require you to log in to Razer Synapse. These features are also subject to change based on the current software version and your Operating System.

MOUSE TAB

The Mouse Tab is your default tab when you first install Razer Synapse. This tab allows you to customize your device's profiles, button assignments, performance, lighting and calibration.
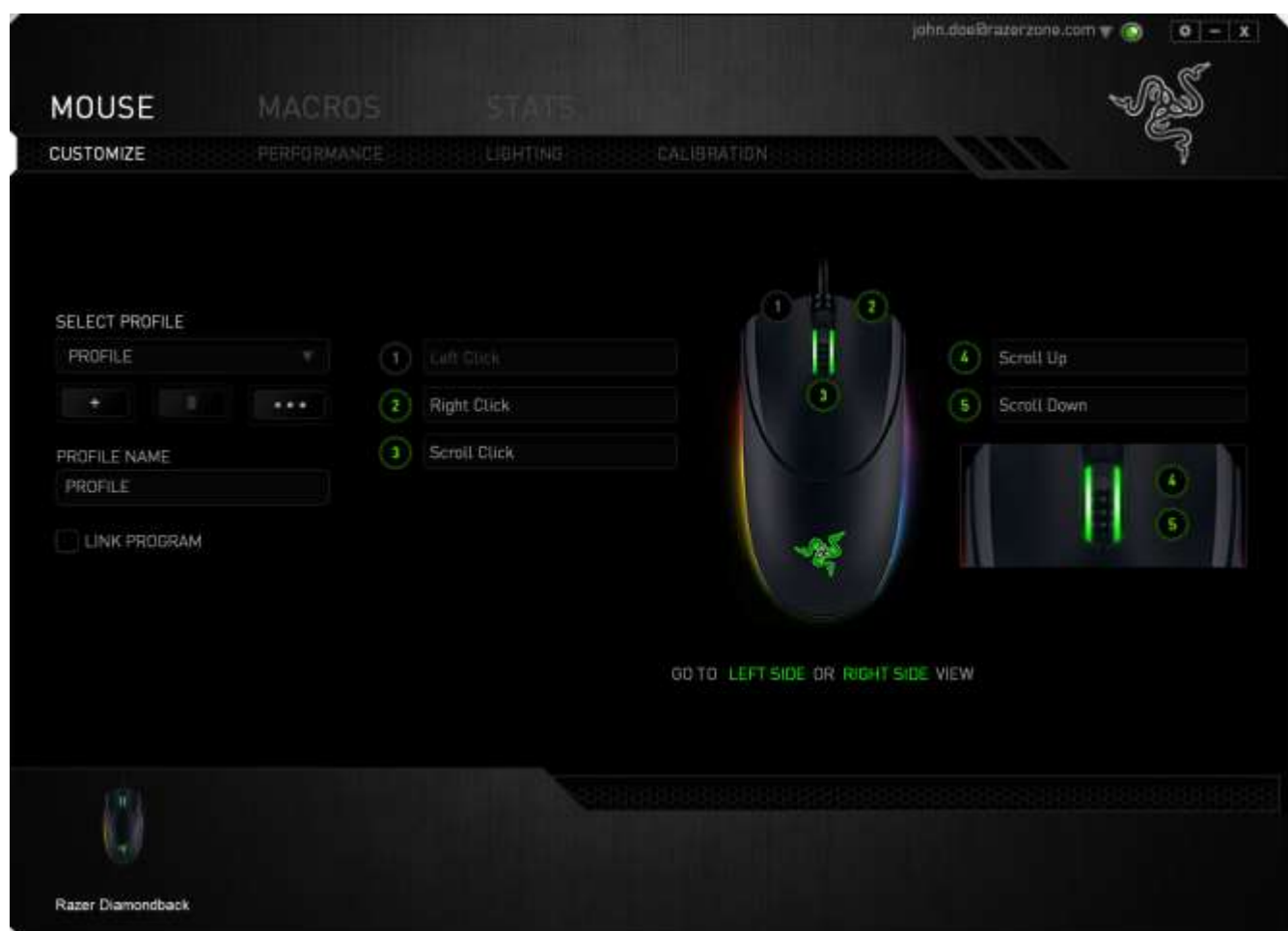
Profile

A profile is a convenient way of organizing all your custom settings and you can have an infinite number of profiles at your disposal. Any changes made within each tab are automatically saved to the current profile and stored into the cloud servers.
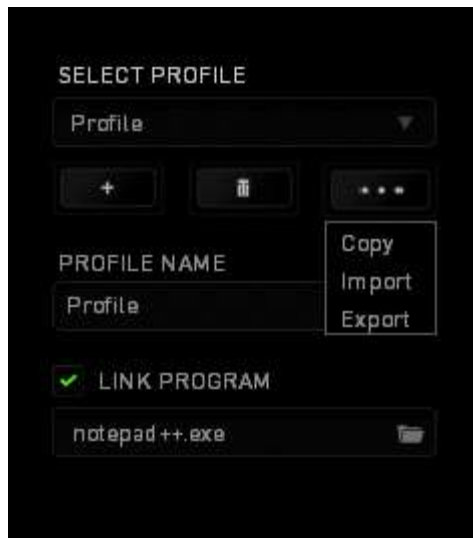
You can create a new profile by clicking the ![+] button or delete the current profile by clicking the ![trash] button. The ![...] button allows you to copy, import, and export profiles. Your current profile by default is named "*Profile*" however; you can rename it by typing on the text field below *PROFILE NAME.* Each profile can also be set to automatically activate when you run a program or application through the use of the *LINK PROGRAM* option.

Customize Tab

The Customize Tab is where you can modify the basic functionalities of your device such as button assignments to suit your gaming needs. The changes made in this tab are automatically saved to your current profile.
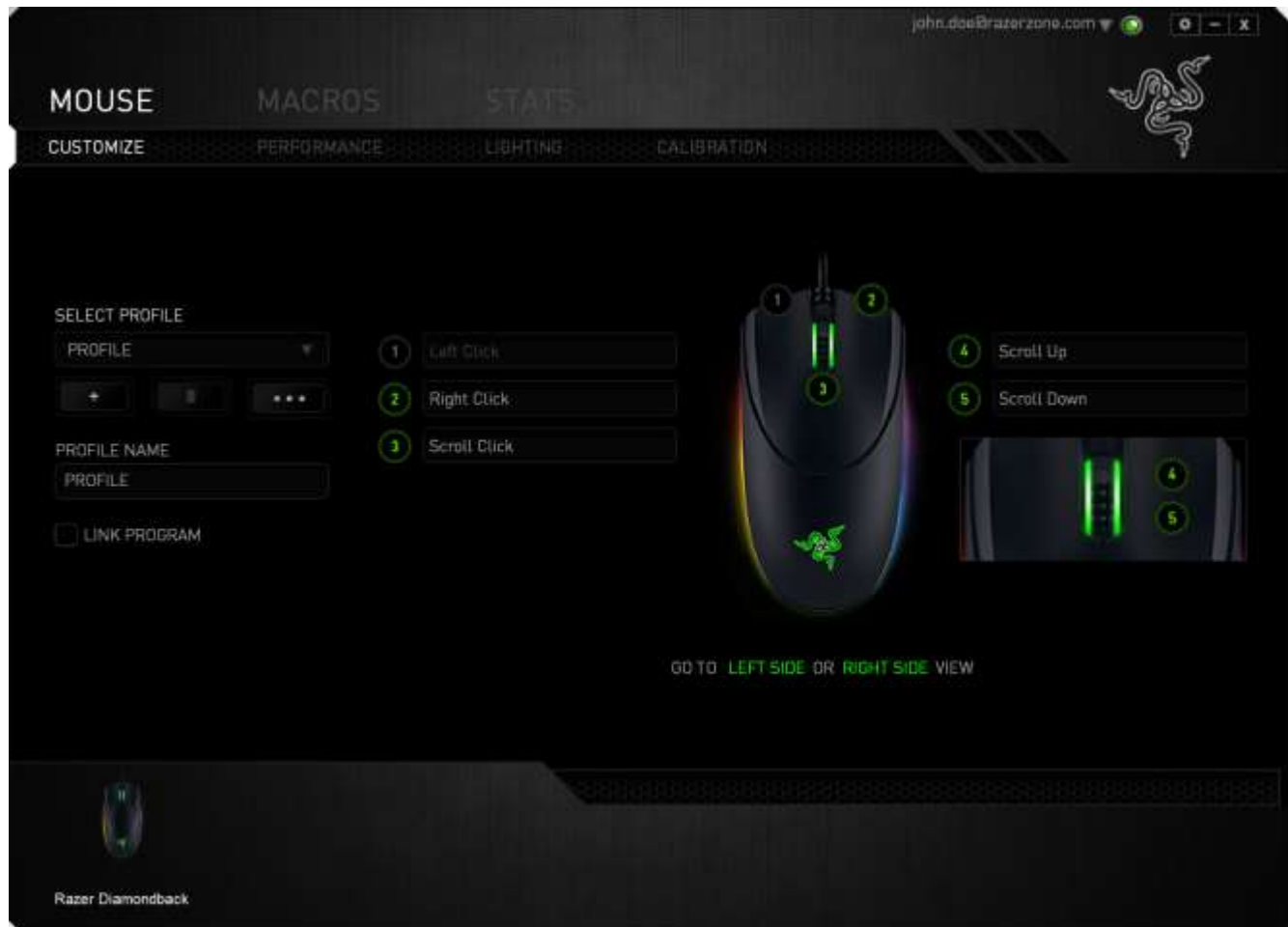
Button Assignment Menu

Initially, each of the mouse buttons is set to *DEFAULT*. However, you may change the function of these buttons by clicking the desired button to access the Button Assignment Menu.
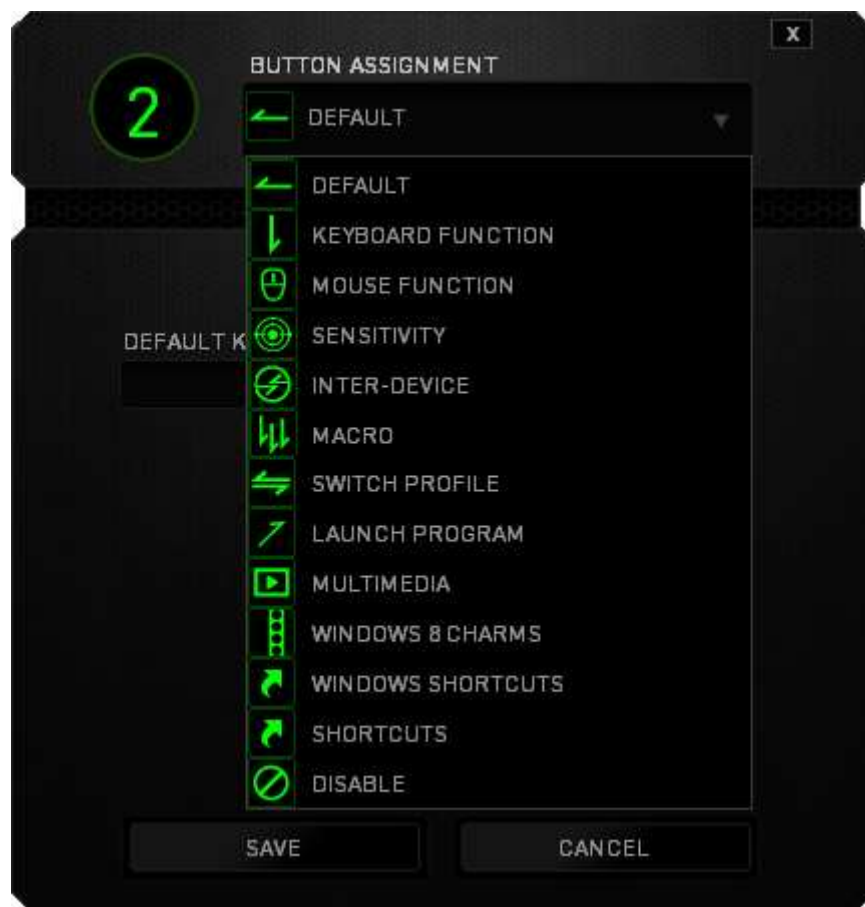
Listed below are the customization options and their descriptions.

Default

This option enables you to return the key to its original function. To choose the *DEFAULT,* simple select it from the Button Assignment Menu.

Keyboard Function

This option enables you to change the mouse buttons into keyboard functions. To choose a keyboard function, select *KEYBOARD FUNCTION* from the Button Assignment Menu and enter the key you wish to use on the given field below. You may also include modifier keys such as *Ctrl*, *Shift*, *Alt* or any of those combinations.

Mouse Function

This option allows you to change the mouse buttons into other mouse functions. To choose a mouse function, select *MOUSE FUNCTION* from the Button Assignment Menu and an *ASSIGN BUTTON* submenu will appear.

Listed below are the functions which you can choose from the Assign Button submenu:

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.

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 gaming keyboard to change the Sensitivity Stage of your Razer gaming mouse. When you select Inter-device from the Button Assignment Menu, a sub-menu will appear.

DEVICE TO LINK allows you to choose which currently connected Razer device can be linked while FUNCTION allows you to choose which functionality you want to use for the linked device.

Sensitivity

Sensitivity refers to how fast the mouse pointer can travel across the screen. When you select the Sensitivity function from the dropdown menu, a sub-menu will appear which gives you access to the following options:

Sensitivity Clutch	- Change to a predefined sensitivity as long as the designated button is pressed. Releasing the button will return it to the previous sensitivity.
Sensitivity Stage Up	- Increase the current sensitivity by one stage. See the **PERFORMANCE TAB** to learn more about sensitivity stages.
Sensitivity Stage Down	- Decrease the current sensitivity by one stage. See the **PERFORMANCE TAB** to learn more about sensitivity stages.
On-The-Fly Sensitivity	- Readily adjust the current sensitivity using the assigned button. If On-The-Fly Sensitivity has been set, pressing the designated button and moving the scroll wheel will produce a bar on your screen which would indicate your current sensitivity level.
Cycle Up Sensitivity Stages	- Increase the current sensitivity stage by one and once it reaches the highest sensitivity stage, it will return to stage 1 when the button is pressed again. See the **PERFORMANCE TAB** to learn more about sensitivity stages.
Cycle Down Sensitivity Stages	- Decrease the current sensitivity stage by one and once it reaches stage 1, it will return to the highest sensitivity stage when the button is pressed again. See the **PERFORMANCE TAB** to learn more about sensitivity stages.

Macro

A Macro is a prerecorded sequence of keystrokes and button presses that is executed with precise timing. By assigning a Macro to a button, you can execute complex combinations with ease. The *ASSIGN MACRO* allows you to choose which recorded Macro to use while the *PLAYBACK OPTION* enables you to choose the behavior of the Macro. See the **MACROS TAB** to learn more about creating Macro commands.

![icon] **Switch Profile**

The Switch Profile enables you to change profiles on the fly and immediately load all your preconfigured settings. When you select Switch Profile from the Button Assignment Menu, a sub-menu will appear that will allow you to choose which profile to use. An on-screen display will automatically appear whenever you switch profiles.

![icon] **Launch Program**

The Launch Program allows you to run a program using the assigned button. When you select Launch Program from the Button Assignment Menu, a ![folder icon] button will appear which allows you to search for the specific program you want to use.

![icon] **Multimedia Function**

This option allows you to bind multimedia playback controls to your device. After selecting Multimedia Function, a submenu will appear. Listed below are the multimedia playback controls you can choose from the submenu:

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	- Mute both microphone and audio output.
Play / Pause	- Play, pause, or resume playback of the current media.
Previous Track	- Play the previous track.
Next Track	- Play the next track.

![icon] **Windows 8 Charms**

This option enables you to assign the key into an Operating System shortcut command. For more information please visit: http://windows.microsoft.com/en-sg/windows-8/getting-around-tutorial.

Windows Shortcut

This option enables you to assign the key into an Operating System shortcut command. For more information please visit: http://support.microsoft.com/kb/126449.

Shortcuts

This option enables you to assign the key into an Operating System shortcut command. For more information please visit: http://support.apple.com/kb/ht1343.

Disable

This option renders the assigned button unusable. Use Disable if you do not need the button or if it interferes with your gaming.

Performance Tab

The Performance Tab allows you to enhance the speed and precision of your mouse pointer. Similar to the Customize Tab, the changes made here are automatically saved to your current profile.

Listed below are the performance options and their descriptions.

Sensitivity

Sensitivity pertains to how much effort is needed to move the mouse pointer in any direction. The higher the sensitivity, the more responsive the mouse will be. (Recommended setting: 1600 – 1800)

Enable X-Y Sensitivity

By default, the X-axis (horizontal) and Y-axis (vertical) use the same sensitivity values. However, you may set different sensitivity values to each of the axes by selecting the *ENABLE X-Y SENSITIVITY* option.
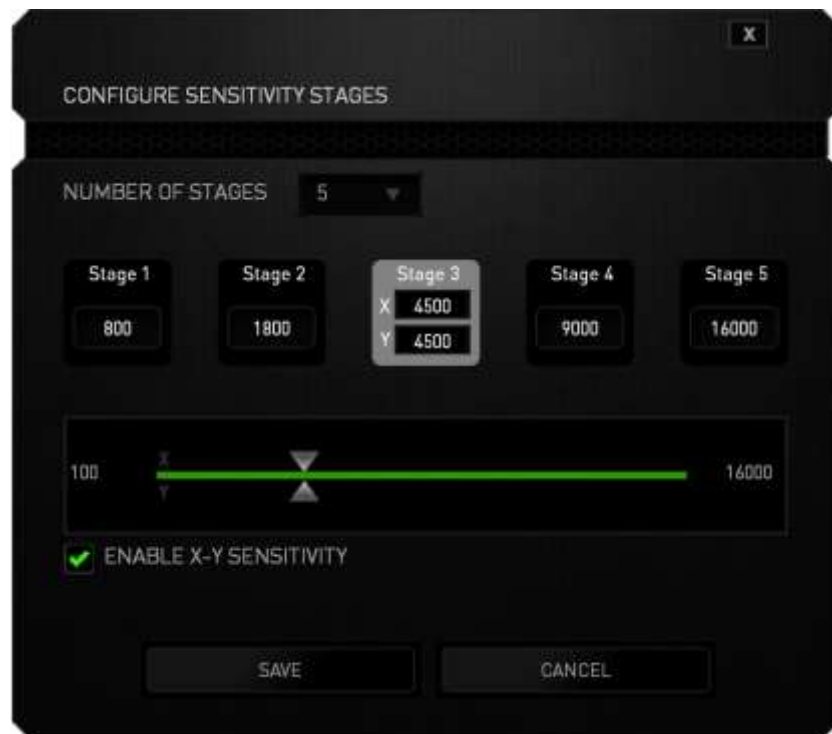
Configure Sensitivity Stages

A sensitivity stage is a preset sensitivity value. You can create up to 5 different sensitivity stages which you can cycle through using the sensitivity stage up/down buttons. You may use the *ENABLE X-Y SENSITIVITY* concurrently with this option.

Acceleration

Acceleration increases the cursor's movement speed depending on how quickly you move the mouse. The higher the value, the faster the mouse accelerates. (Recommended settings: Windows 0, Mac 5)

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 on the dropdown menu. (Recommended setting: 500Hz – 1000Hz)

Lighting Tab

Each Chroma enabled device has a Lighting Tab on Synapse. This Lighting Tab allows you to customize the look of your Razer Diamondback by being able to choose from 16.8 million colors for the Razer logo, scroll wheel, and side strips. This tab also allows you to adjust the intensity of the lighting using the BRIGHTNESS dropdown menu. If you have other Chroma enabled devices, you can synchronize all lighting scheme by clicking the ⬤ button. Note that this synchronization function will only apply on devices that support the selected scheme. Changes made in this tab will be automatically saved to the current profile.
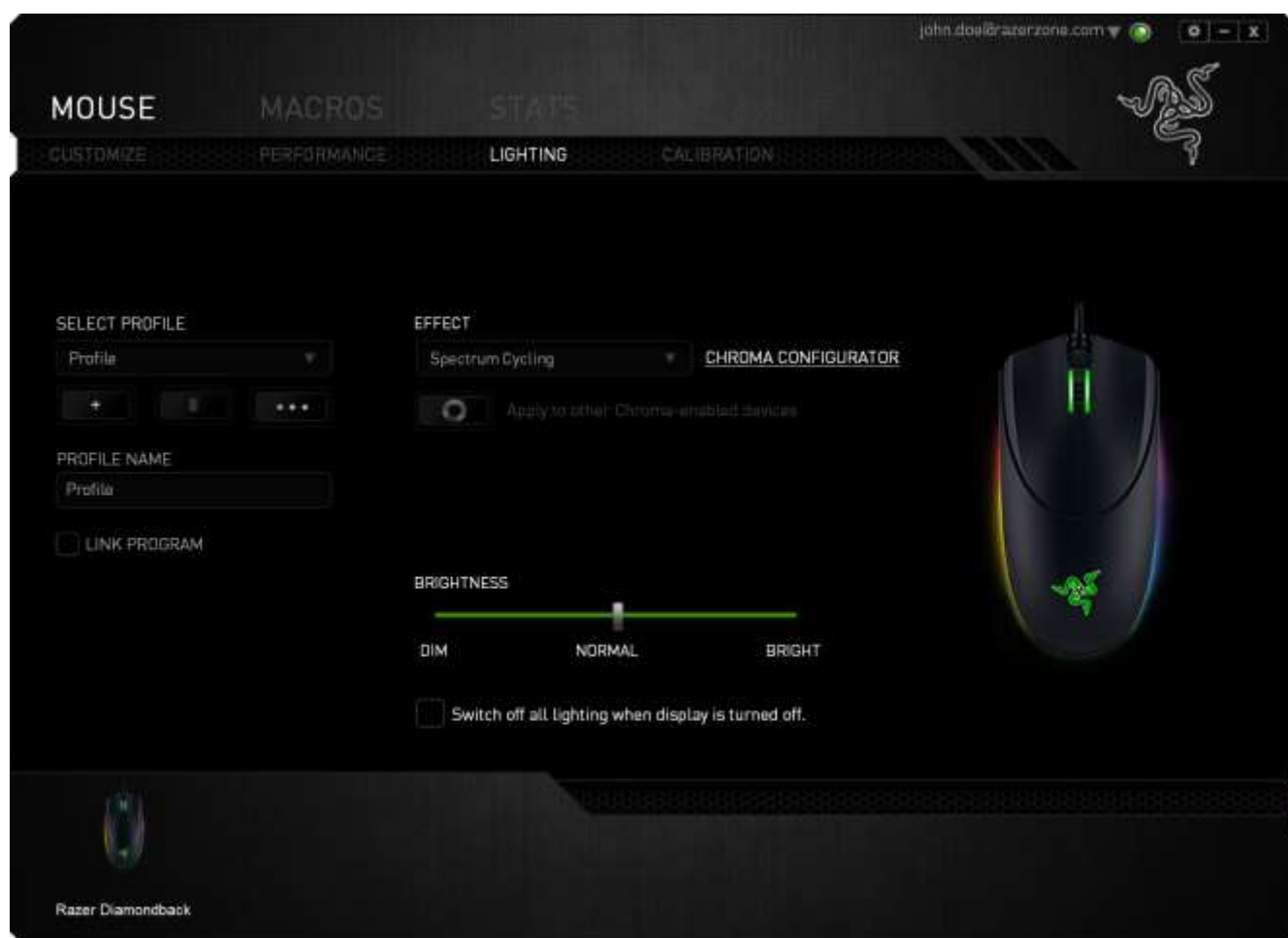
Pre-loaded lighting effects

A number of pre-loaded lighting effects can be selected and applied to your keyboard lighting as a whole, such as spectrum lighting, breathing etc. The default effect is spectrum lighting. Select your desired effect and their corresponding properties (such as color) from the bottom area of this tab.
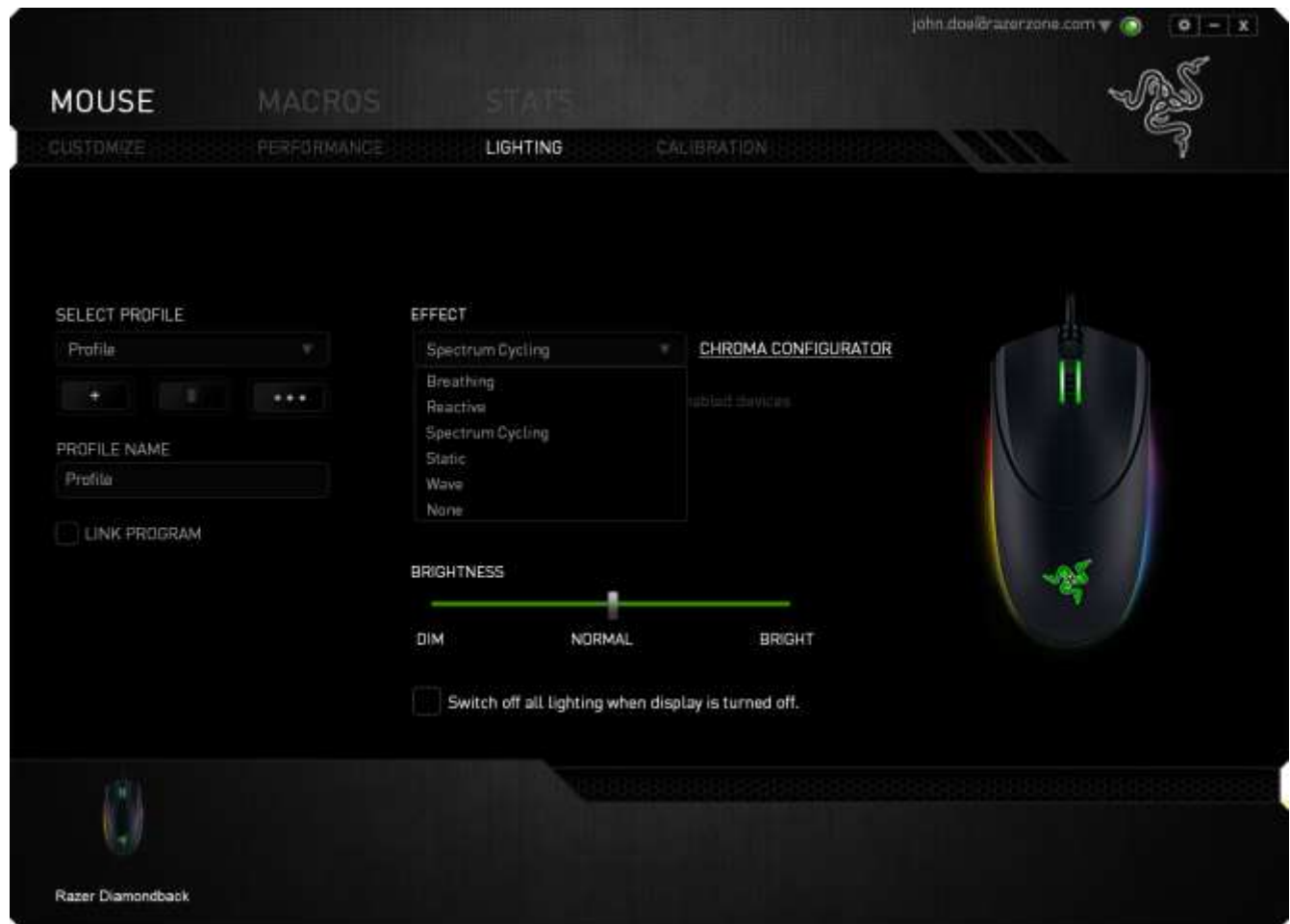
Basic Lighting Effects

	Name	Description	How to set up
	Spectrum cycling	The LEDs will cycle between 16.8 million colors indefinitely	Default effect. No further customization is required
	Wave	The lighting will scroll in the direction selected with a default spectrum of colors	Select either front-to-back or back-to-front wave direction
	Static	The LEDs will remain lit in the selected color	Select the desired lighting color
	Breathing	The lighting fades in and out of the selected color(s)	Select up to 2 colors for this setting
	Reactive	The LEDs will light up when you click any of the mouse buttons	Select the desired lighting color

You can further customize your Razer Diamondback by accessing the Advance Chroma Configurator on Razer Synapse. For more Razer Chroma lighting profiles by the Razer community, and to share your own creation, please visit: insider.razerzone.com.

Calibration Tab

The Calibration Tab allows you to optimize your Razer Precision Sensor to any mousing surface for better tracking. To use this feature, you must select the ON option under *SURFACE CALIBRATION*.
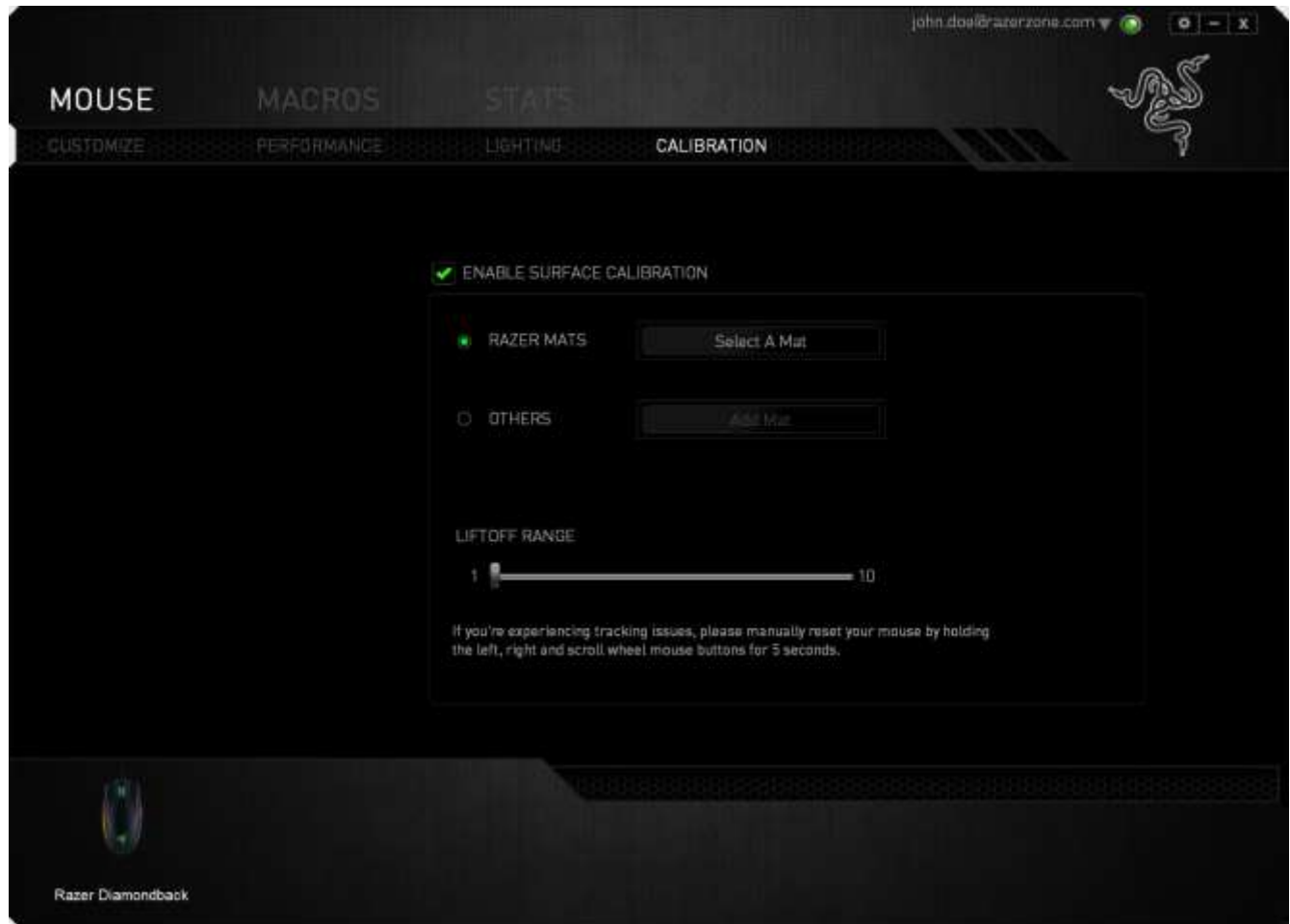
The *LIFTOFF RANGE* allows you to set the distance in which the sensor stops tracking as it is being lifted away from its mousing surface. To use this feature, you must first activate *SURFACE CALIBRATION* then choose an appropriate mousing surface.

Razer Mouse Mats

The Razer Diamondback is 'tuned' or optimized especially for Razer mouse mats. This means that the sensor has been tested extensively to confirm that the Razer Diamondback reads and tracks best when paired with Razer mouse mats.

If you are using a Razer mouse mat, click the [SELECT A MAT] button to access the Razer Mats submenu. This menu showcases an extensive list of Razer-branded mouse mats. Select the appropriate mouse mat from the list; then choose between *SPEED* or *CONTROL* if applicable.
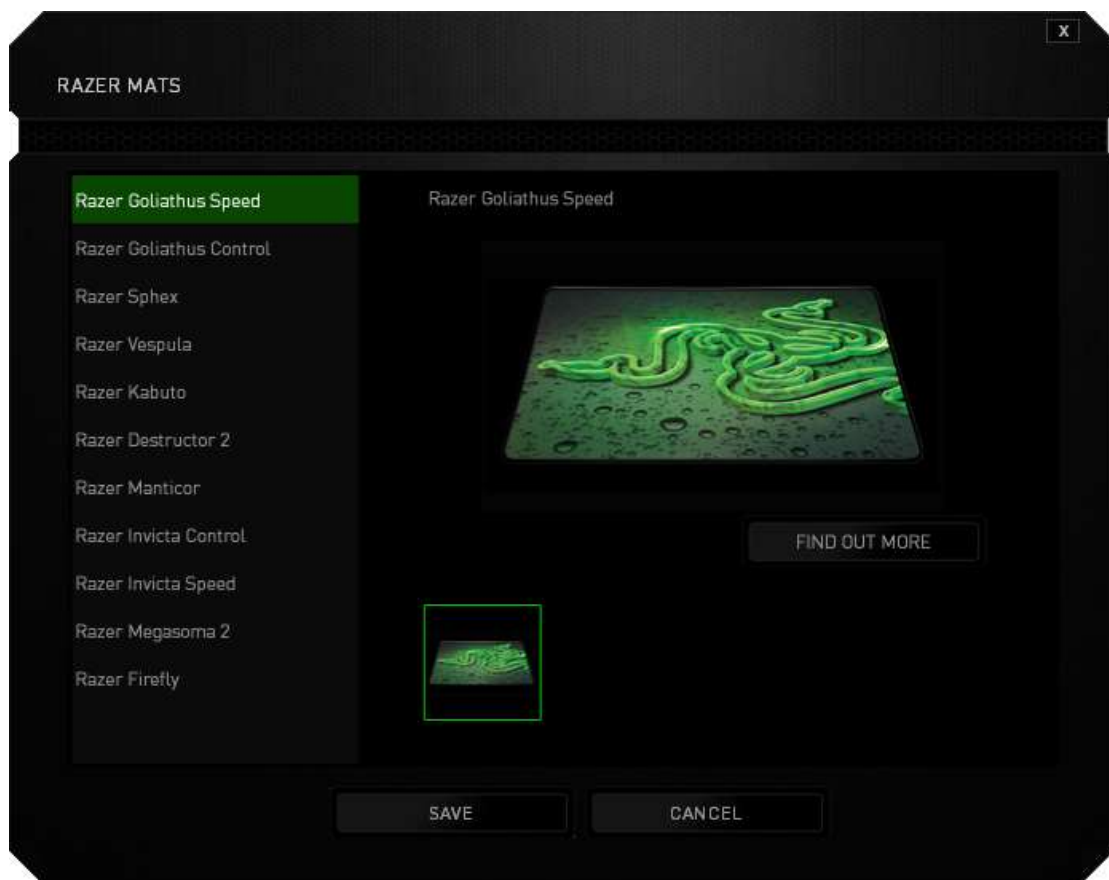
If you wish to learn more about a particular mouse mat or if you wish to purchase a Razer mouse mat, you may do so by clicking the [FIND OUT MORE] button.

Other Mousing Surfaces

If you are using a non-Razer mouse mat or a non-standard mousing surface, select

OTHERS then click the [ADD MAT] button to access the manual calibration submenu.
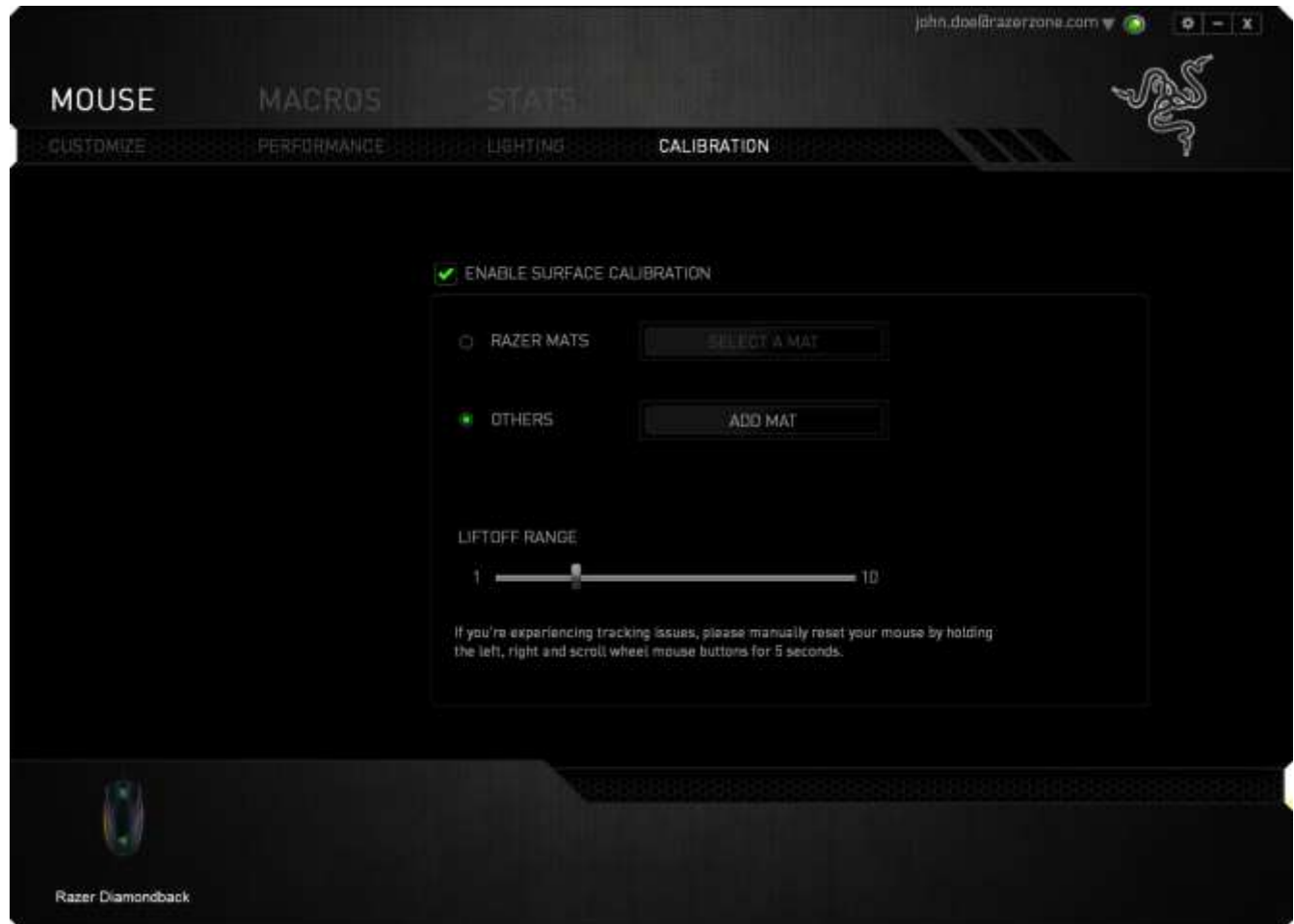
This submenu enables you to manually adjust the Razer Precision Sensor to suit any mousing surface.
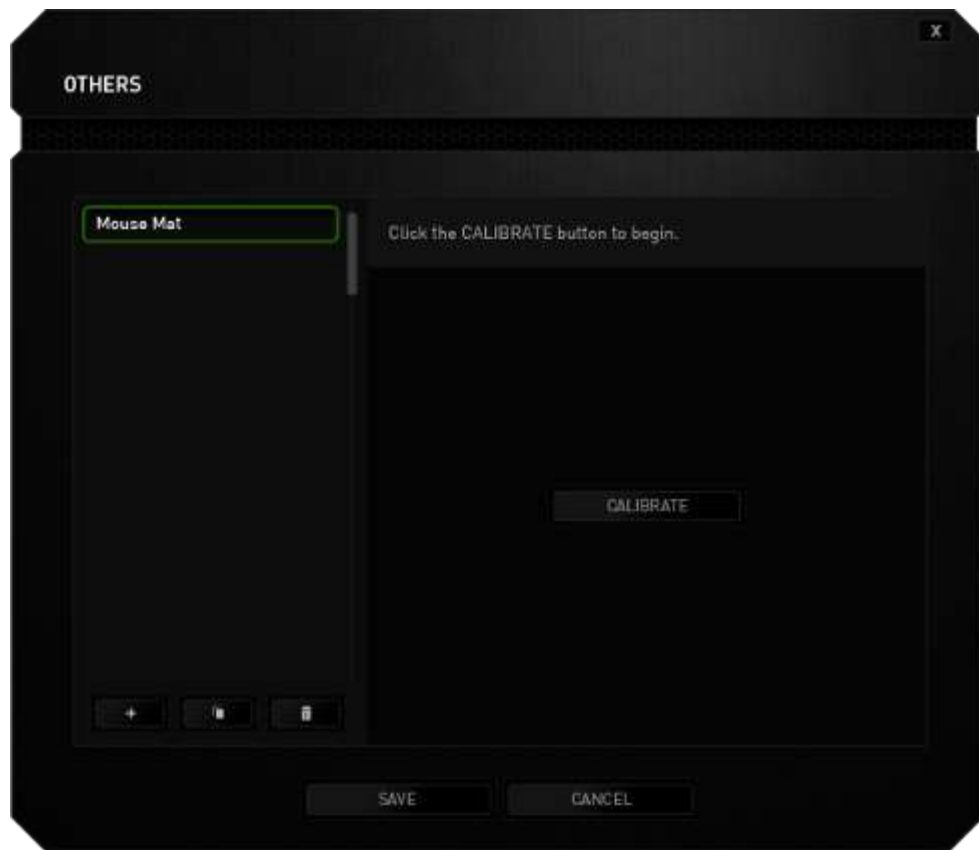
To begin calibrating the sensor, click the CALIBRATE button. After clicking the button, Razer Synapse will begin tuning the sensor. Please avoid moving the Razer Diamondback during this time.

Once the Razer Precision Sensor is ready, click the left mouse button to start the process. Move the mouse across your entire mousing surface in a zigzag pattern as shown on the screen guide.
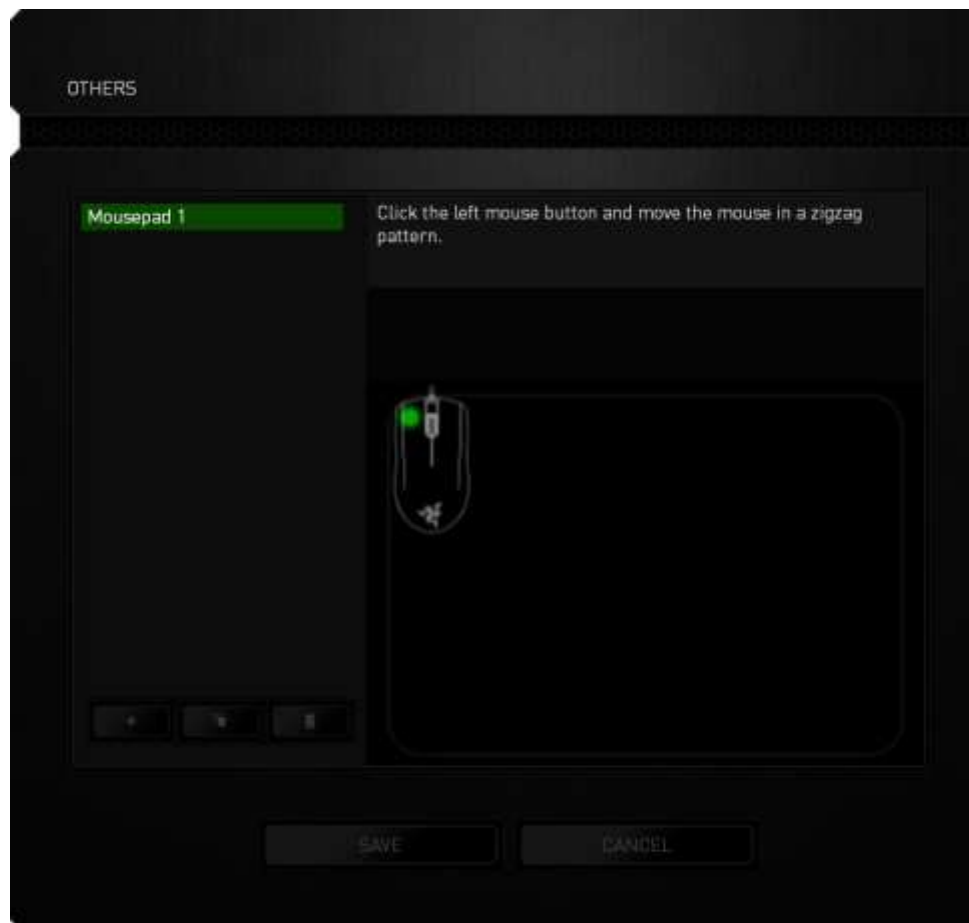

When you have moved through your entire mousing surface, click the left mouse button. This will bring you back to the manual calibration submenu which contains new information regarding your mousing surface.
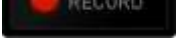
There are also other options available in this section such as adding a new mouse mat setting by clicking the [+] button, deleting the currently selected mouse mat setting by clicking the [trash] button or duplicating the currently selected mouse mat setting by clicking the [duplicate] button.

MACROS TAB

The Macros Tab allows you to create a series of precise keystrokes and button presses. This tab also allows you to have numerous macros and extremely long macro commands at your disposal.
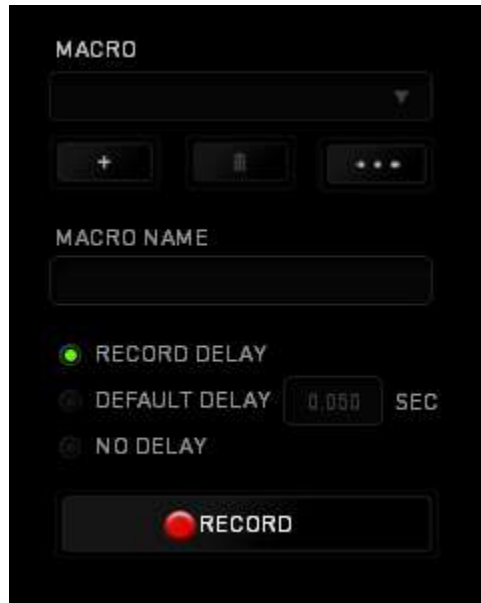
The Macro section works similarly to Profile wherein you can rename a macro by typing on the field below *MACRO NAME*. There are also other options available in the macro section such as creating a new macro by clicking the ☐ button and deleting the current macro by clicking the ☐ button. The ☐ button allows you to copy, import, and export macros.

To create a macro command, simply click the ☐ button and all your keystrokes and button presses will automatically register on the macro screen. When you are done recording your macro commands, click on the ☐ button to end the session.

The Macro section allows you to input the delay in-between commands. In *RECORD DELAY* the delay in-between commands are registered as how it is entered. The *DEFAULT DELAY* uses a predefined time (expressed in seconds) as the delay. And *NO DELAY* omits all the pauses in-between keystrokes and button presses.


Note: You may use up to three decimal places when inserting values on the seconds (sec) field.

Once you have recorded a macro, you may edit the commands you have entered by selecting each command on the macro screen. Each keystroke or button press is arranged sequentially with the first command shown at the top of the screen.

The ![edit] button allows you to edit a particular command and the ![delete] button enables you to delete a command. The ![up] and ![down] buttons gives you the option to move the command up or down. The ![INSERT] button allows you to put in additional keystrokes, button presses or time delays either before or after the selected command.

Once you have pressed the ⬛INSERT button, a new display window will appear beside the list of macro commands. The dropdown menu on this window allows you to choose a keystroke or a delay to be added in before or after the highlighted macro command.
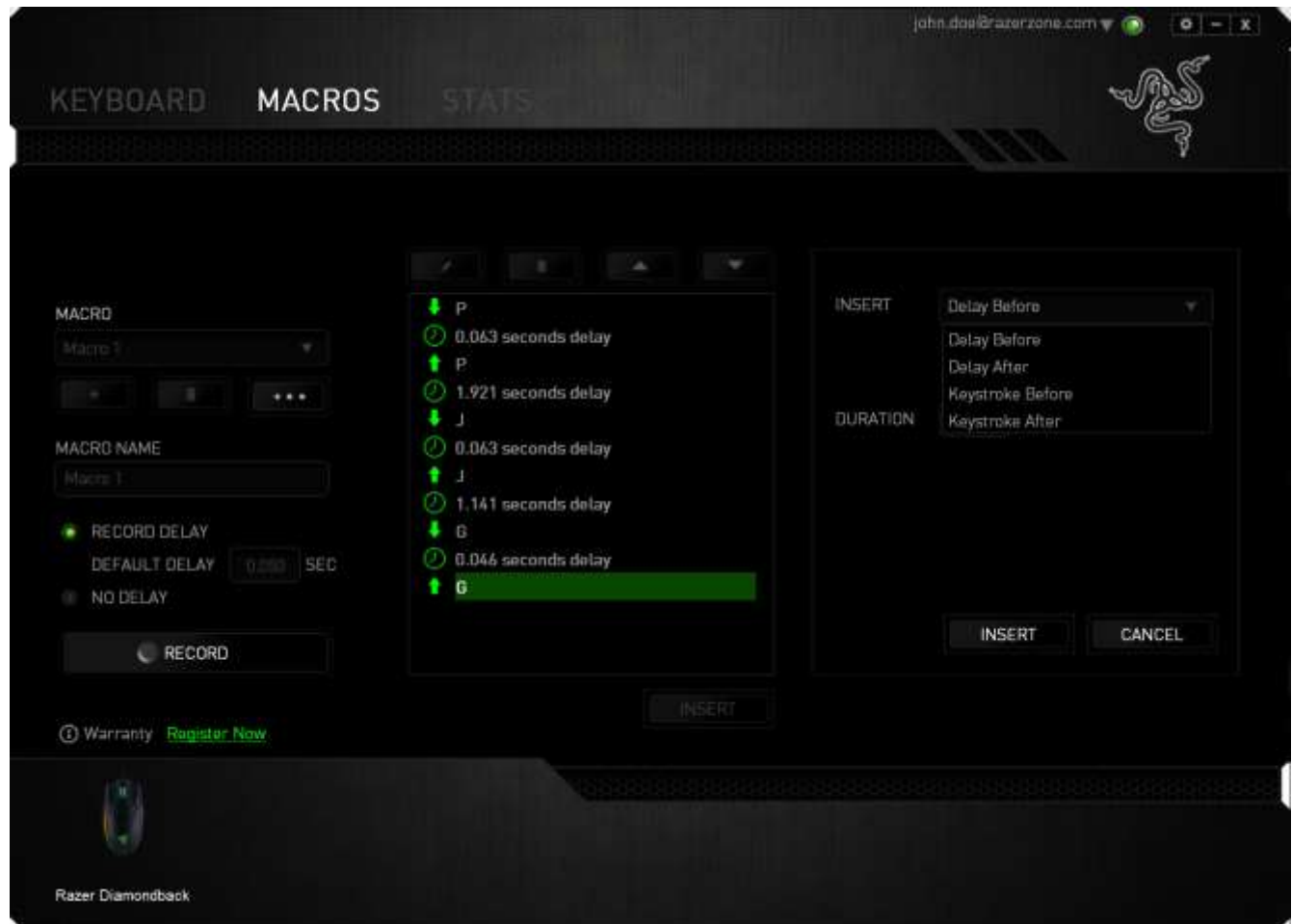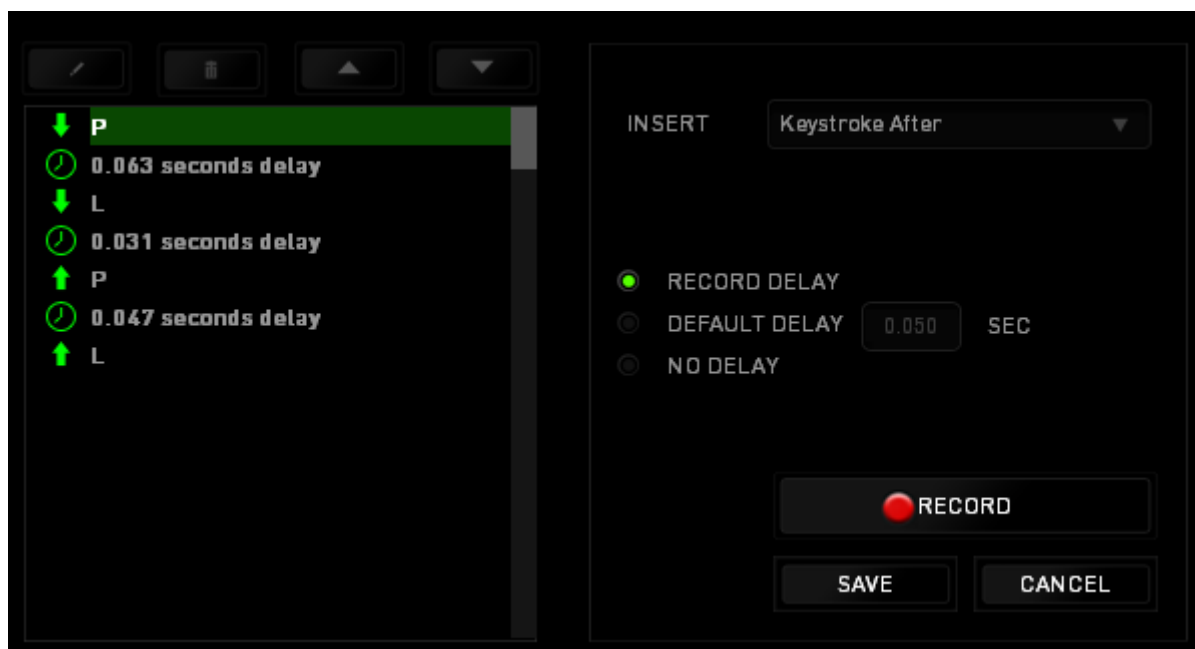
You may add in a new set of macro commands by clicking the button on the keystroke menu; or input time delays on the duration field using the delay menu.
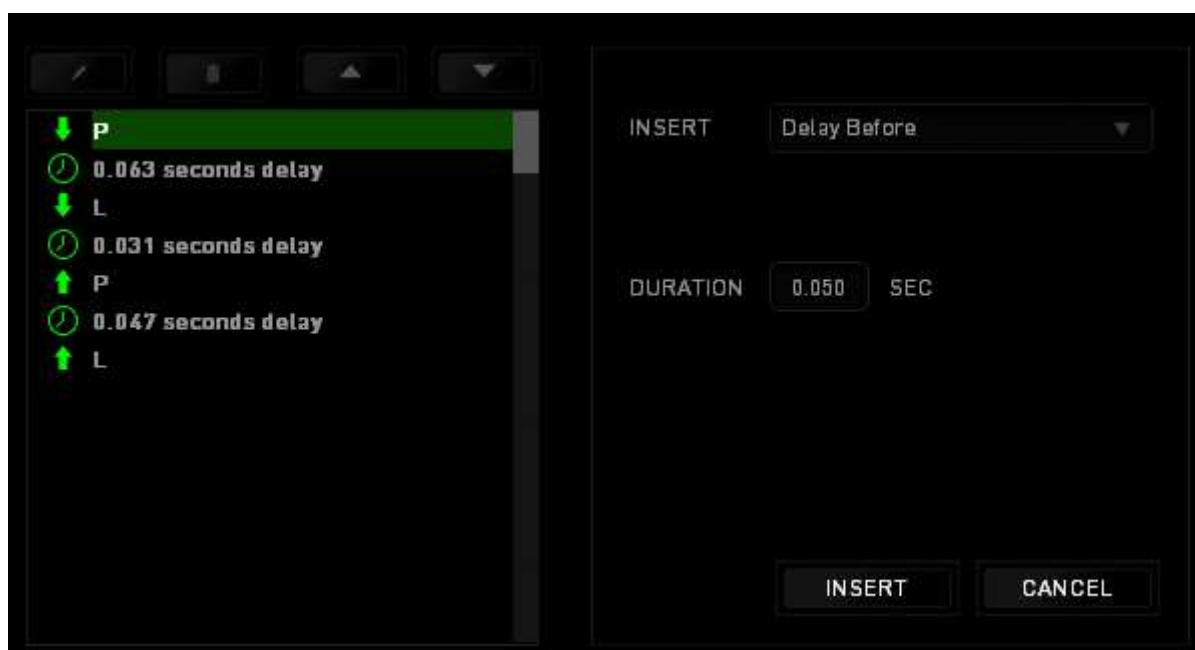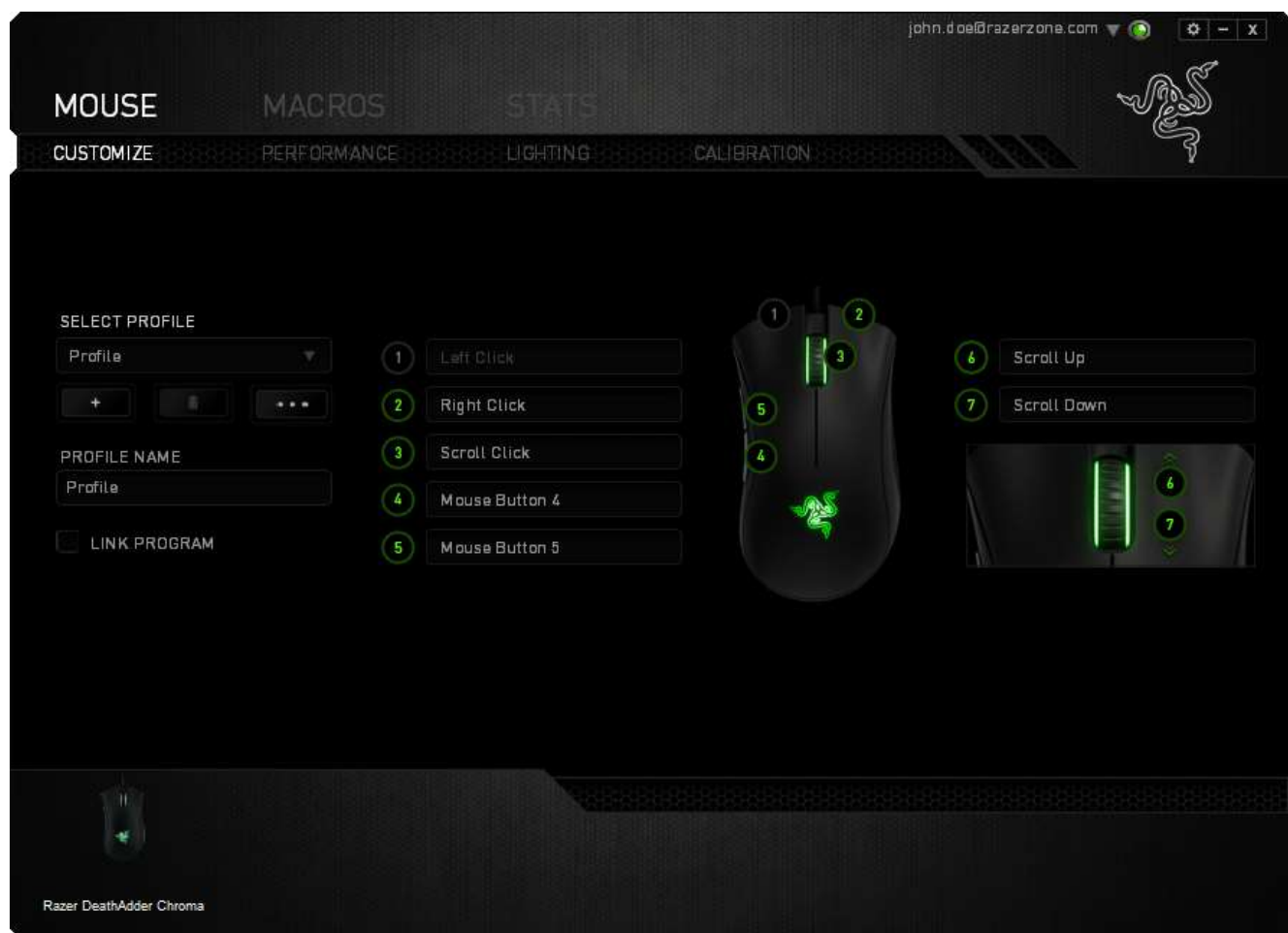
STATS & HEATMAPS

Note: The images shown here are for reference only and may differ from the actual device.

Stats & Heatmaps help you analyze your gameplay by tracking your in-game mouse clicks, mouse movement and keyboard usage and visualizing it in form of heatmap overlays. This function is disabled by default. To enable this function, click the notification icon next to your user name in the Razer Synapse window and select "Enable Stats & Heatmaps".

Confirm to enable the function in the dialog box that appears. Return to Razer Synapse and a new "Stats" tab will be available. Simply click the tab to open the function window.

Games List

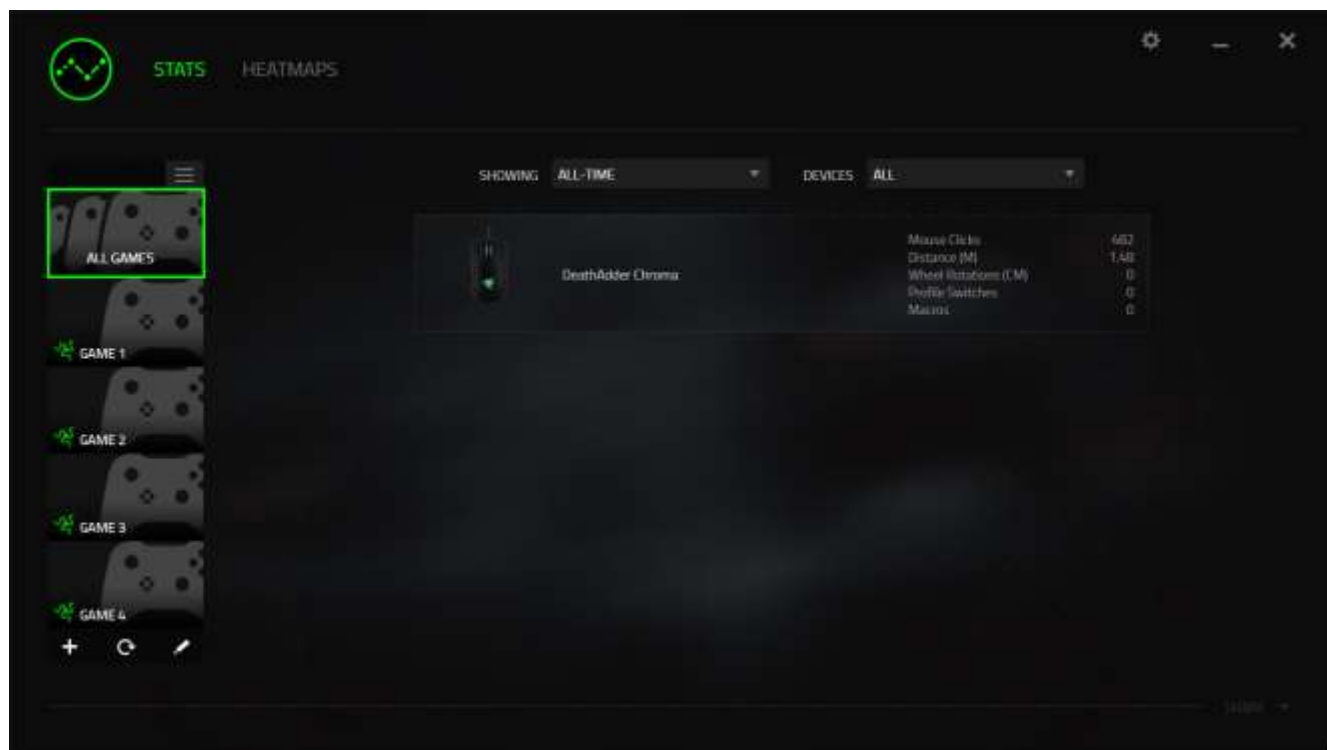Stats & Heatmaps work by tracking the usage of all supported devices for each game. When the feature is enabled, it automatically scans your system for installed games and adds them to the Games List located on the left side of the screen. Click ▤ to show or hide the Games List.

From this list, you can add more games that have not been automatically detected, using the ➕ button, edit games with the ✏ button or re-scan your system with the ↻ button to search for newly installed games.

Stats Tab

By default, the Stats Tab shows you the overall statistics of all your Razer devices for all games and all time. You can select a specific game via the game list on the left side, change the time period using the *SHOWING* dropdown menu, or the Razer device using the *DEVICES* dropdown menu.
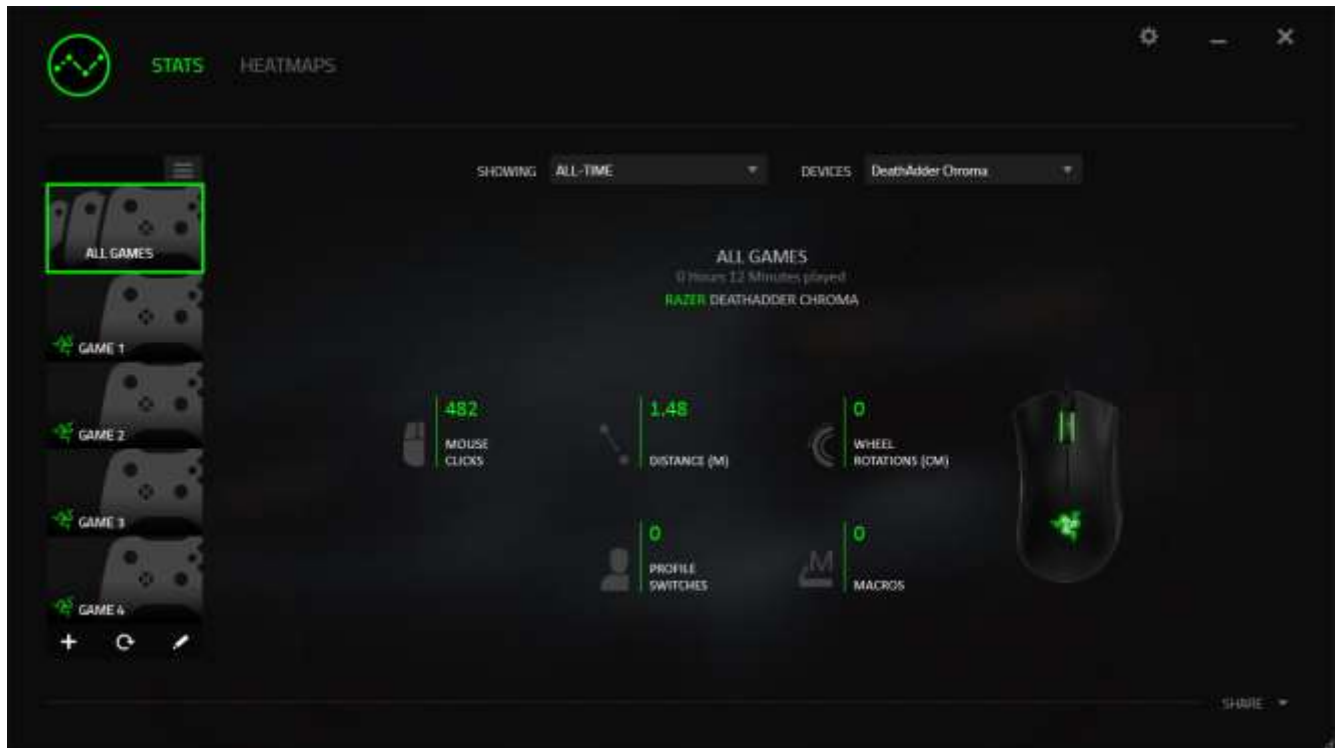
Heatmaps Tab

Heatmaps Tab shows detailed information about your Razer device's in-game usage. This includes:

- The **Mouse Clicks** tab, a heat map showing the frequency of mouse clicks on different spots of your screen.
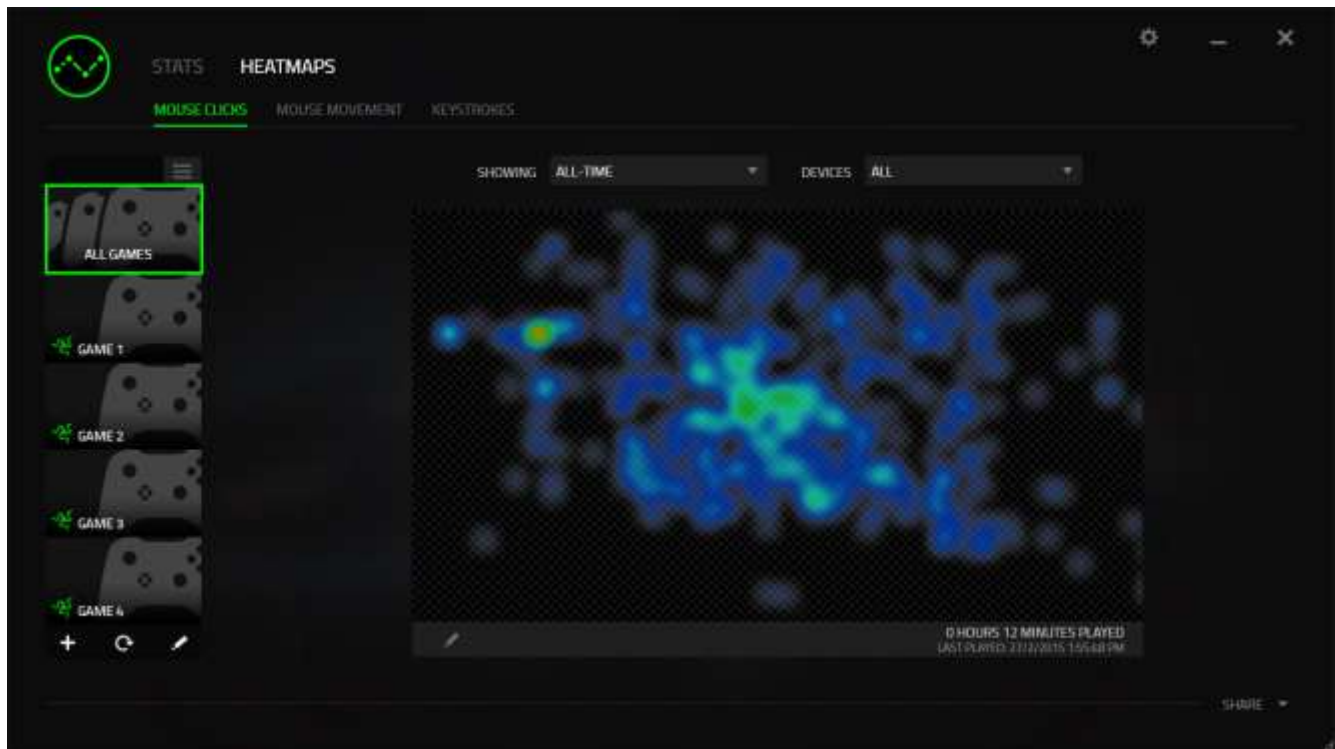
- The **Mouse Movement** tab which shows the movement of your mouse cursor during game play. This tab also displays the locations on screen where your mouse cursor stops in the form of white dots. The longer your cursor hovers at that spot, the larger the dot.
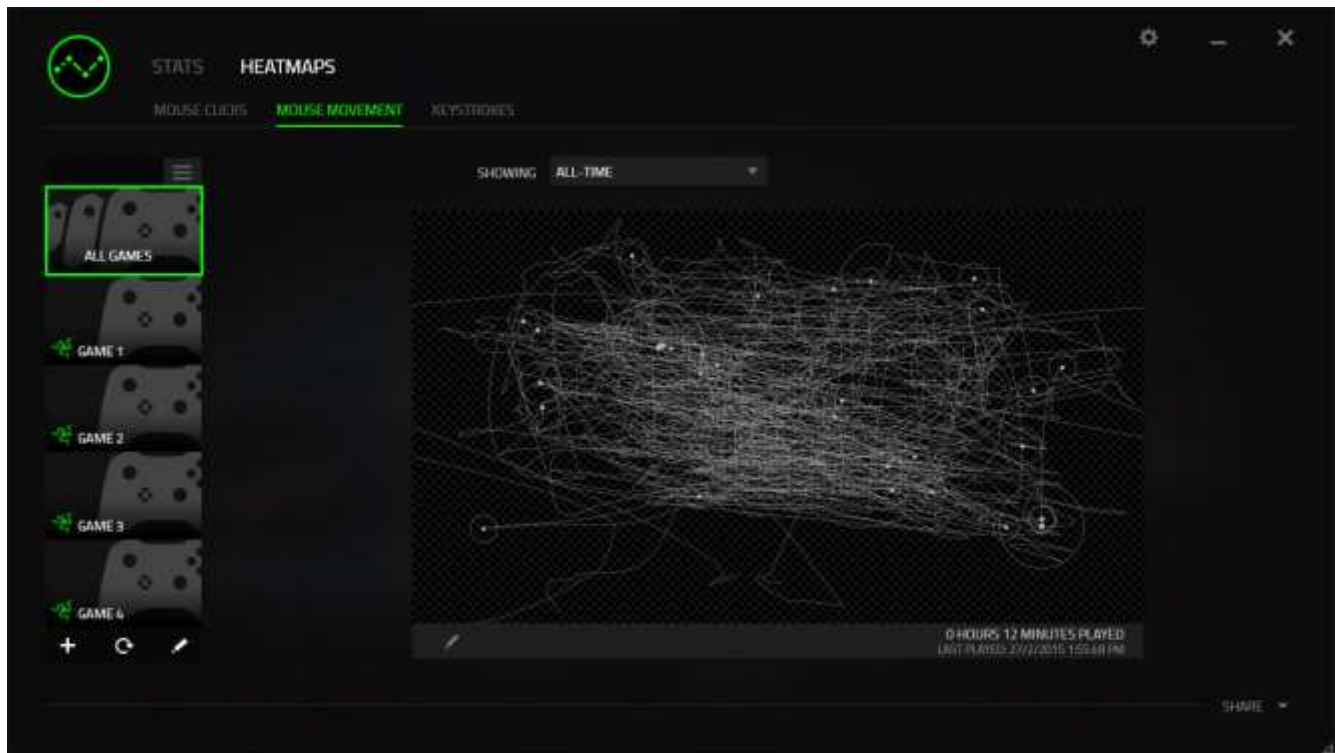
Mouse heatmaps can be overlayed on game screenshots.

Editing the Heatmap Image

Click ![pencil icon] to change the background image and/or transparency of the heatmap overlay
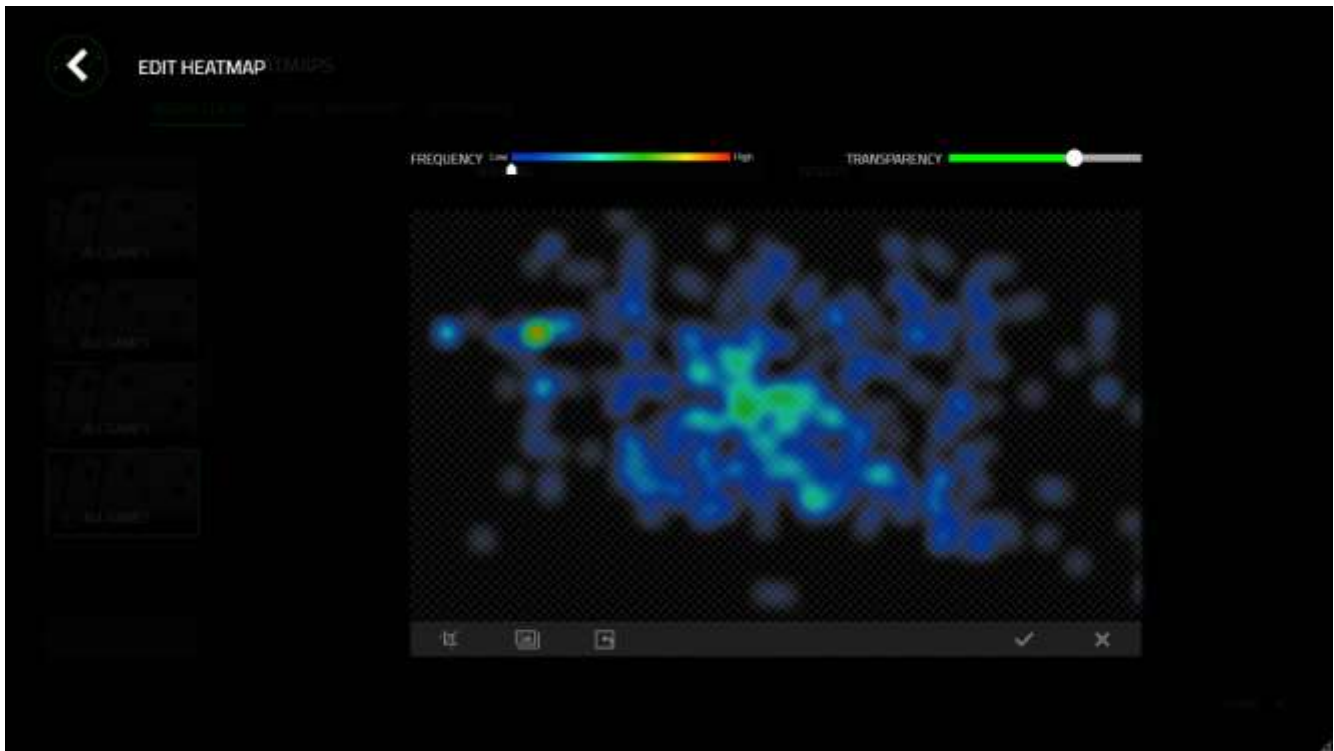
Here you can also adjust the transparency of the heatmap overlay on the background image

Click ![checkmark icon] to save the changes or ![x icon] to exit without saving.

Social Media

You can share your heatmap image on social media networks such as Facebook or Twitter directly from Razer Synapse.

From the **Heatmaps** tab, click the **Share** button on the bottom right of the screen. You will be prompted to login to the selected social media using an existing account if you have not already done so.

You can also login to your social media accounts first from the "SETTINGS" screen.

From the Stats & Heatmaps window, click ⚙. Select the "ACCOUNTS" tab. Click **CONNECT** next to the social media network you wish to sync with. Enter your login details and wait for the connection to complete.
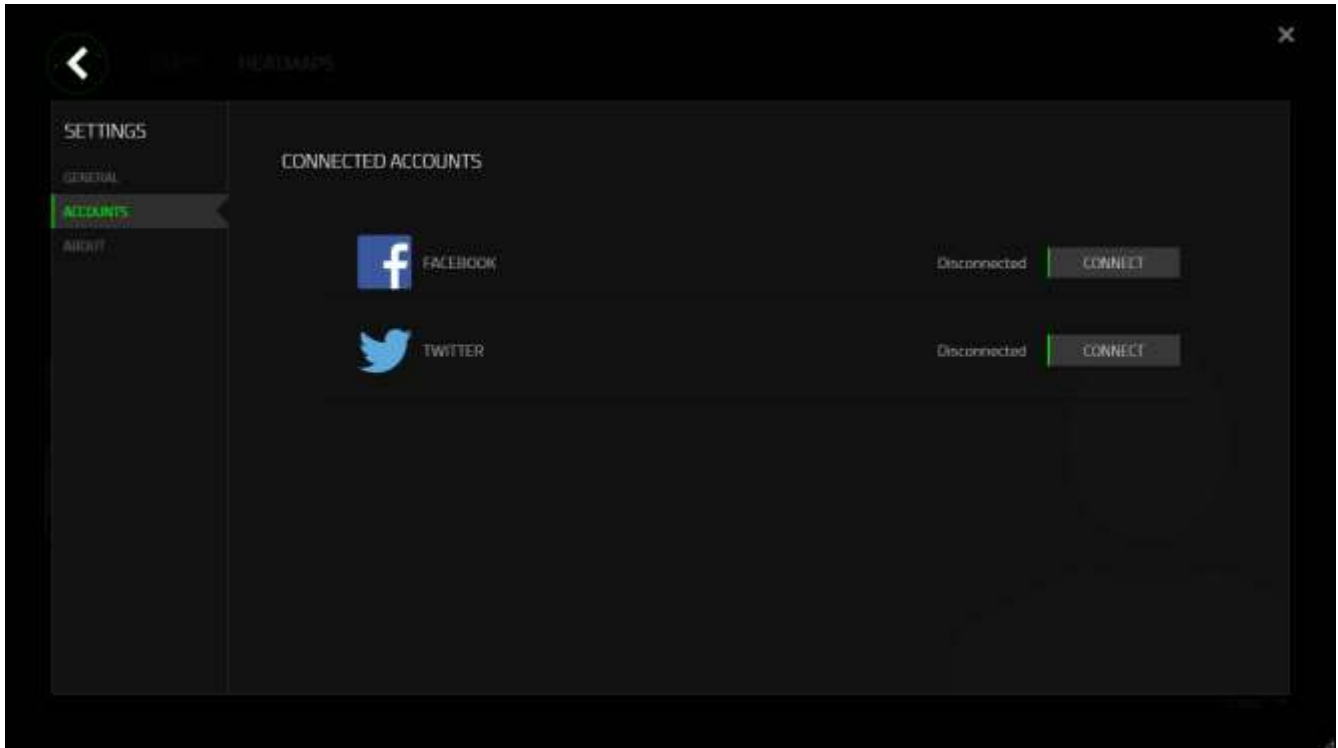
7. SAFETY AND MAINTENANCE

SAFETY GUIDELINES

In order to achieve maximum safety while using your Razer Diamondback, we suggest that you adopt the following guidelines:

1. Avoid looking directly at the tracking beam of your mouse or pointing the beam in anyone else's eye. Note that the tracking beam is NOT visible to the naked human eye and is set on an Always-On mode.

2. Should you have trouble operating the device properly and troubleshooting does not work, unplug the device and contact the Razer hotline or go to www.razersupport.com for support. Do not attempt to service or fix the device yourself at any time.

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

4. 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 in order 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 Diamondback.

1. 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 mouse within easy reach.

2. Adjust the height of your chair and table so that the keyboard and mouse are at or below elbow height.

3. Keep your feet well supported, posture straight and your shoulders relaxed.

4. During gameplay, relax your wrist and keep it straight. If you do the same tasks with your hands repeatedly, try not to bend, extend or twist your hands for long periods.

5. Do not rest your wrists on hard surfaces for long periods. Use a wrist rest to support your wrist while gaming.

6. Customize the buttons on your mouse to suit your style of gaming in order to minimize repetitive or awkward motions while gaming.

7. Make sure that your mouse fits comfortably in your hands.

8. Do not 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.

9. 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 Diamondback requires minimum maintenance to keep it in optimum condition. Once a month we recommend you unplug the device from the USB port and clean it using a soft cloth or cotton swab with a bit of warm water to prevent dirt buildup. Do not 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 sensor of the Razer Diamondback is 'tuned' or optimized especially for the Razer Mouse Mats. This means that the sensor has been tested extensively to confirm that the Razer Diamondback reads and tracks best on Razer Mouse Mats.

8. LEGALESE

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