RIOTORO®

Your Installation Guide For The

GHOSTWRITER PERSONIC KEYBOARD

Congratulations you are on your way to build the perfect gaming machine

RIOTORO®

Contents

Chapter 1: Before You Begin
- What is in the box
- System Requirements
- Product Details
- Setting Up

Chapter 2: Ready, Setup, Go
- Mechanical Switches
- Lighting Controls
- Media and Volume Controls
- Game Mode Lock
- Caps Lock, Number Lock, Scroll Lock
- Selecting Lighting Modes
- Changing Lighting Color and Speed
- Custom Lighting Maps
- Attaching Wrist Rest
- USB 2.0 Ports

Chapter 3: Specifications
- Specifications
- Recommended Peripherals
- Recommended Parts

Chapter 4: Everything Else
- Important Safety Information
- General Maintenance
- LIMITED PRODUCT WARRANTY ("Limited Warranty")

Welcome to RIOTORO

Thank you for purchasing the RIOTORO GHOSTWRITER PRISM keyboard.

The GHOSTWRITER PRISM RGB mechanical gaming keyboard provides multicolor per-key back-lighting for virtually unlimited customization. Every key is backed with a Cherry MX RGB key switch for precise actuation and superior feel. With 100% anti-ghosting ensure accurate game play.

1

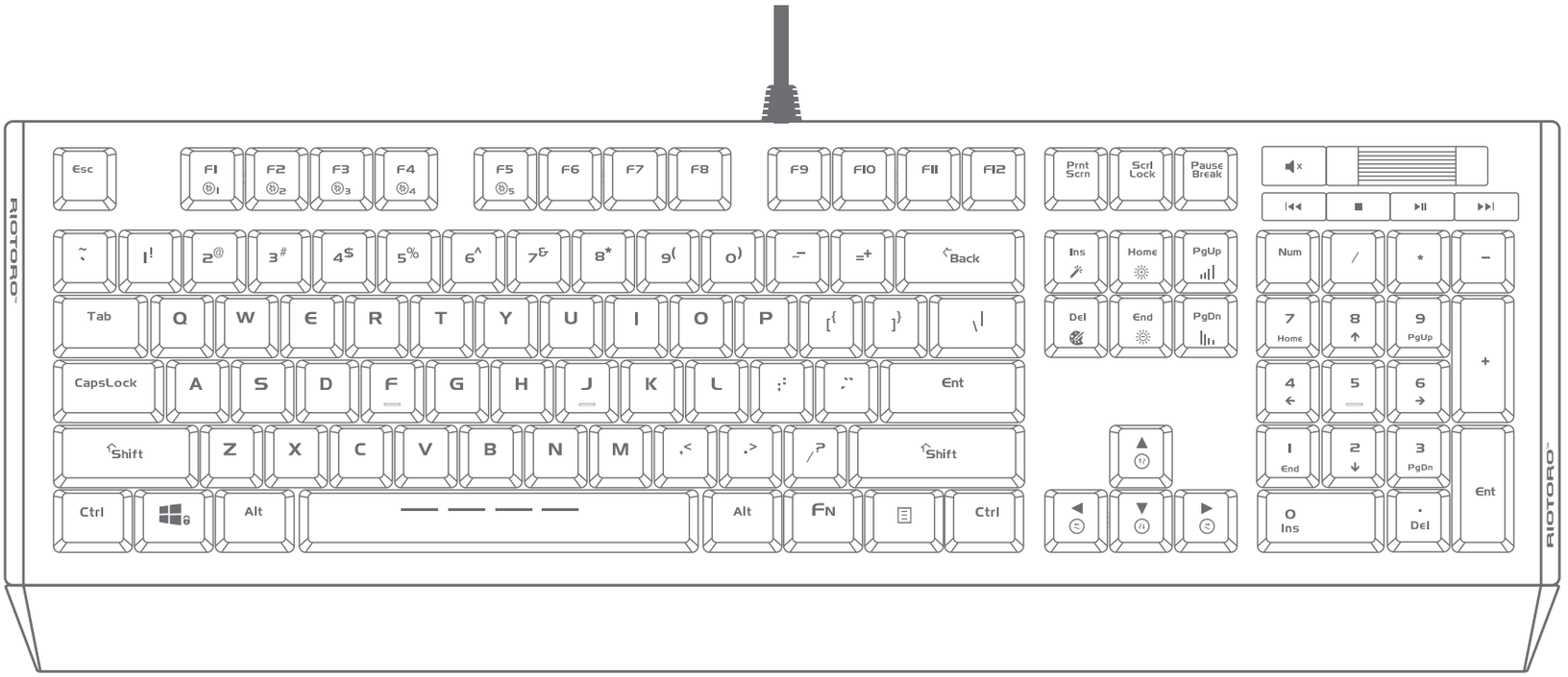
Before You Begin

www.riotoro.com/keyboards

GHOSTWRITER PRISM

What's in the Box

GHOSTWRITER Gaming Keyboard



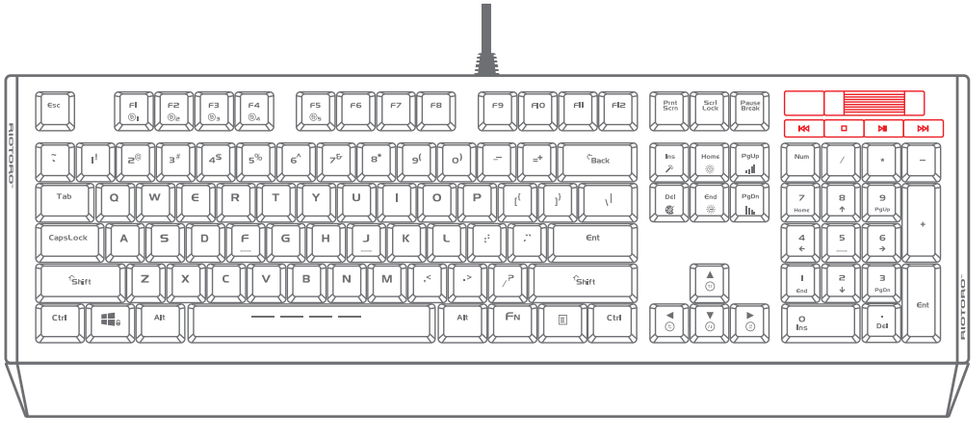
Wrist Rest

System Requirements

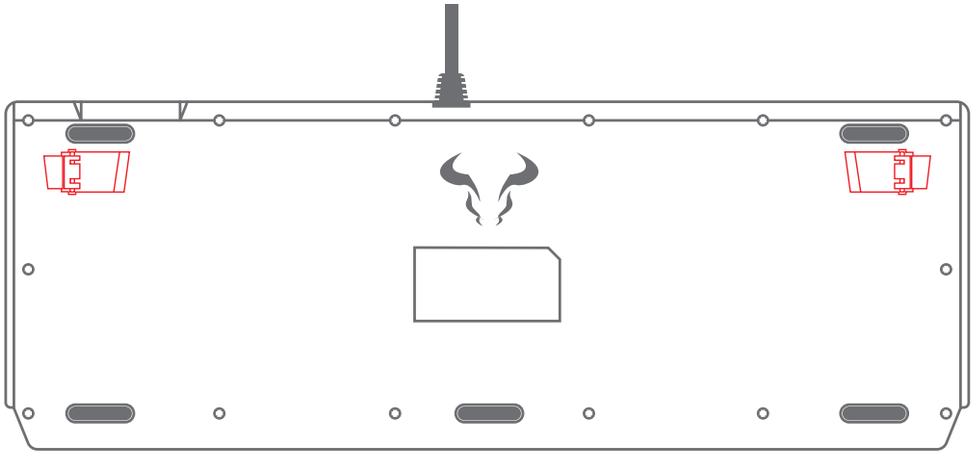
- PC with available USB 2.0 port
- Windows® 7 or later
- Internet connection to download latest RIOTORO Command Control software

GHOSTWRITER PRISM

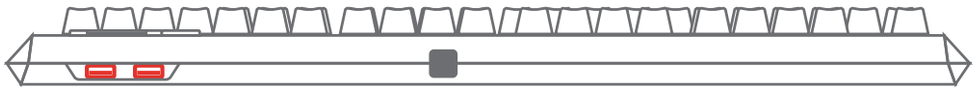
Product Details



- Media and volume keys



- Height adjustment

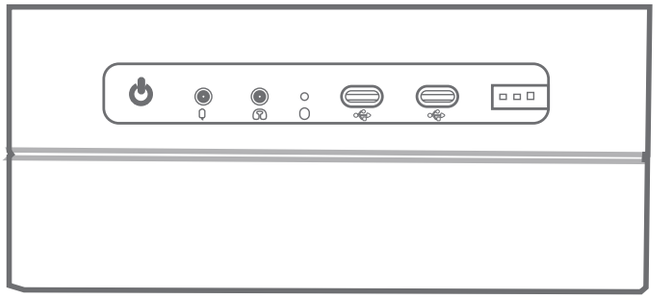


- USB 2.0 hub

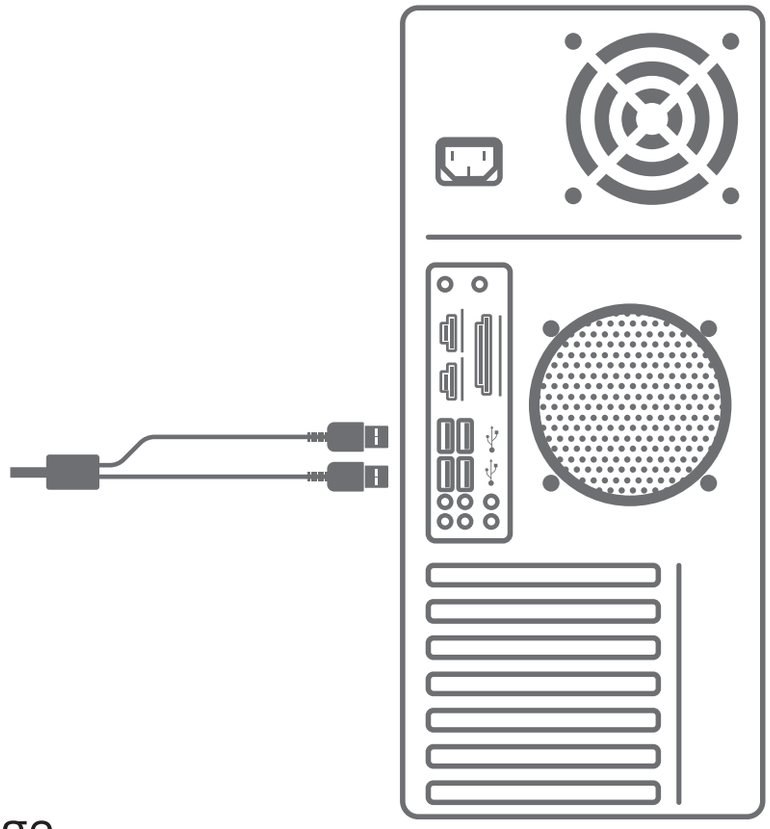
- Wrist Rest

Setting Up

- Turn on your computer



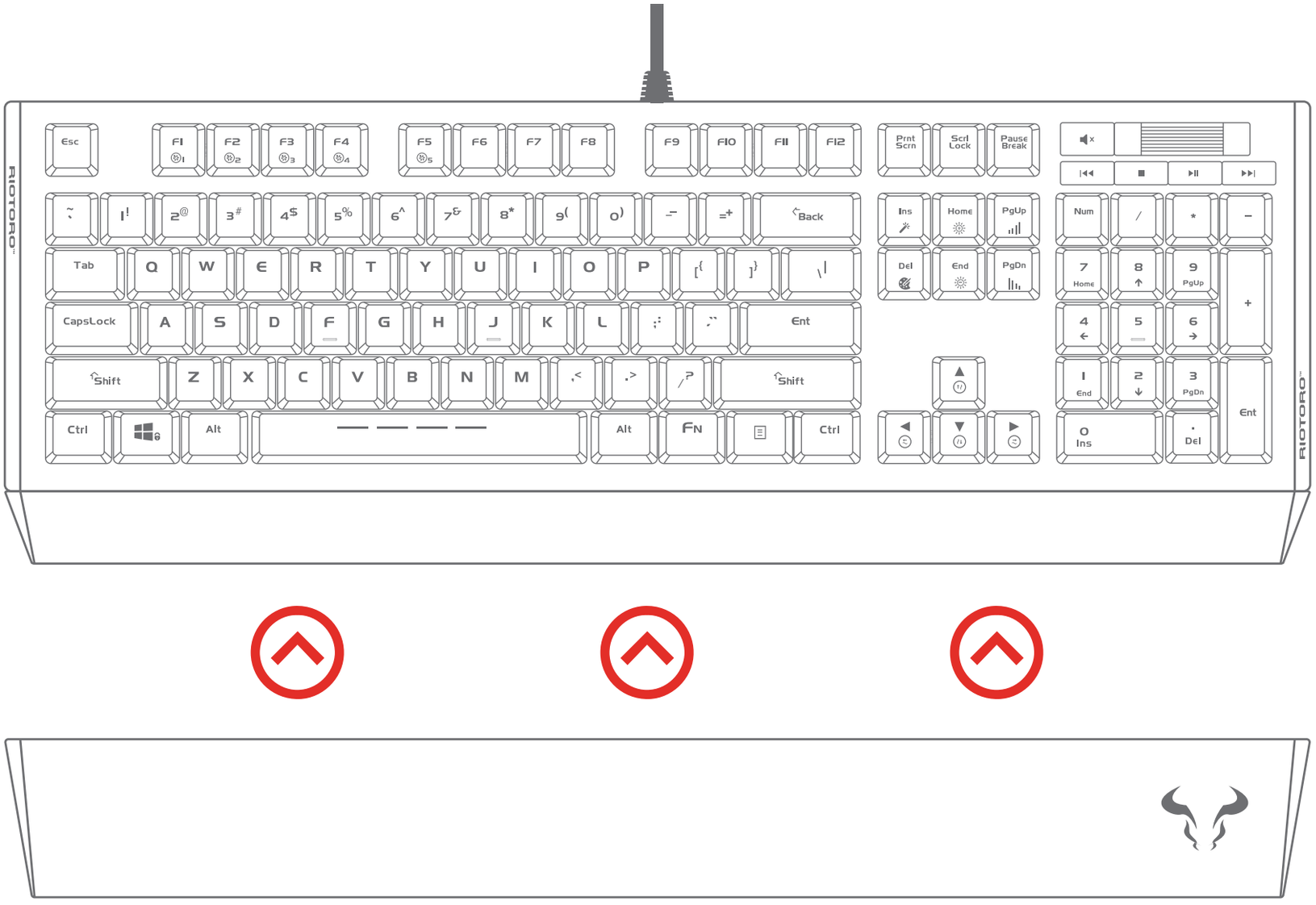
- Connect the GHOSTWRITER cable to a USB 2.0 or USB 3.0 port on your PC.



- Go to www.riotoro.com and download the Command Control software from the GHOSTWRITER Prism product page.

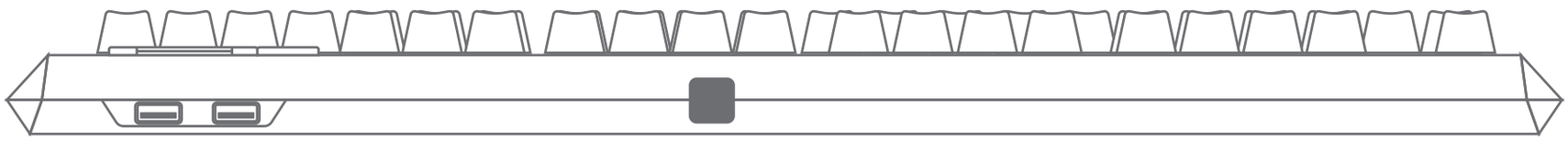
Attaching the Wrist Rest

Simply place the magnetic wrist rest close to the GHOSTWRITER PRISM keyboard and it will snap into place.



USB 2.0 Ports

Two USB 2.0 ports are located on the back of the GHOSTWRITER PRISM. These ports may be used to connect and power peripherals.



Notes

2

Ready, Setup, Go

www.riotoro.com/keyboards

Mechanical Switches

MX | CHERRY

SILENT RED

RED

BLUE

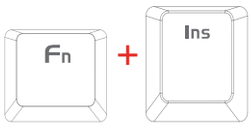
BROWN

BLACK

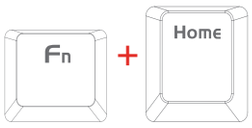
Strong spring with smooth linear feel and no-click for improved typing accuracy with rapid recovery and quiet operation.

GHOSTWRITER PRISM

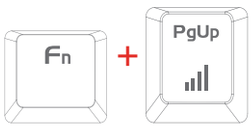
Lighting Controls



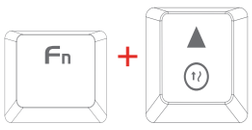
Change lighting effect



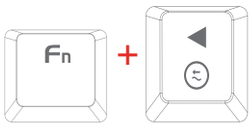
Increase brightness



Increase effect speed



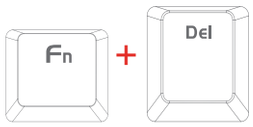
Makes Wave animation move upward



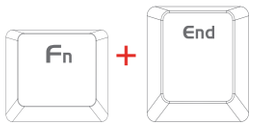
Makes Wave animation move left

Activates light map programming mode

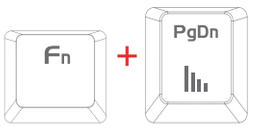
Through



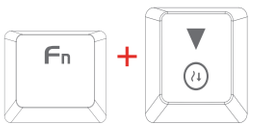
Change lighting effect colors



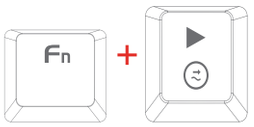
Decrease brightness



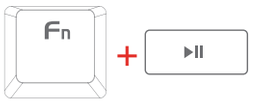
Decrease effect speed



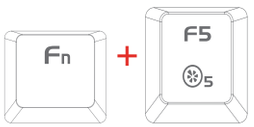
Makes Wave animation move downward



Makes Wave animation move right



Hold to reset keyboard programming to default



User presets for user lighting key map

Media and Volume Controls

Stop audio/video playback

Start/Pause playback

Next track

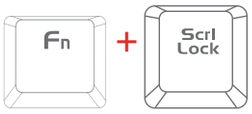
Previous track

Mute audio

Adjust audio volume

GHOSTWRITER PRISM

Game Mode Lock

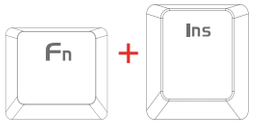


Enable/Disable Windows Start and Menu keys

Caps Lock, Number Lock, Scroll Lock

Status for Caps Lock, Number Lock, and Scroll Lock is shown by lighting on the keys themselves. They will turn white when active. If the key lighting is white, the status will turn red.

Selecting Lighting Modes



Press **Fn+Insert** (Ins) to step through lighting modes.

Wave

A line of lights move left, right, up or down. The **Fn+Arrow** keys change direction.

Spotlight

A line of lit keys on both sides move the center and back towards the edges repeatedly.

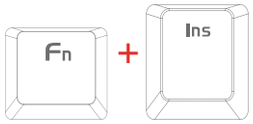
Breathe (Pulse)

All keys repeatedly brighten then fade.

Static

All keys are constantly lit in one color. When rainbow color is selected, the keys all light in a rainbow cycle.

Selecting Lighting Modes



Press **Fn+Insert** (Ins) to step through lighting modes.

Reactive

After a pressing a key, it will briefly light and then fade.

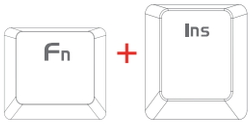
Rain

Random keys light and similar to the fall of rain drops.

Ripple

When a key is pressed, light moves outward from it like a ripple in a pool of water.

Selecting Lighting Modes



Press **Fn+Insert** (INS) to step through lighting modes.

Snake

A trail of light moves from side to side, moves down a line and reverses direction. Pattern continues until the bottom is reached and restarts at the top.

Spiral

Keys light in a trail moving from outside edge and then continue in a spiral pattern until it reaches the center and reverses direction and spirals outward.

Radar

Lighting moves around the keyboard in a radar pattern. The FN+Left Arrow and FN-Right Arrow keys change the direction.

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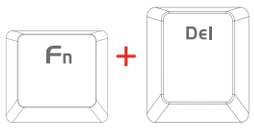
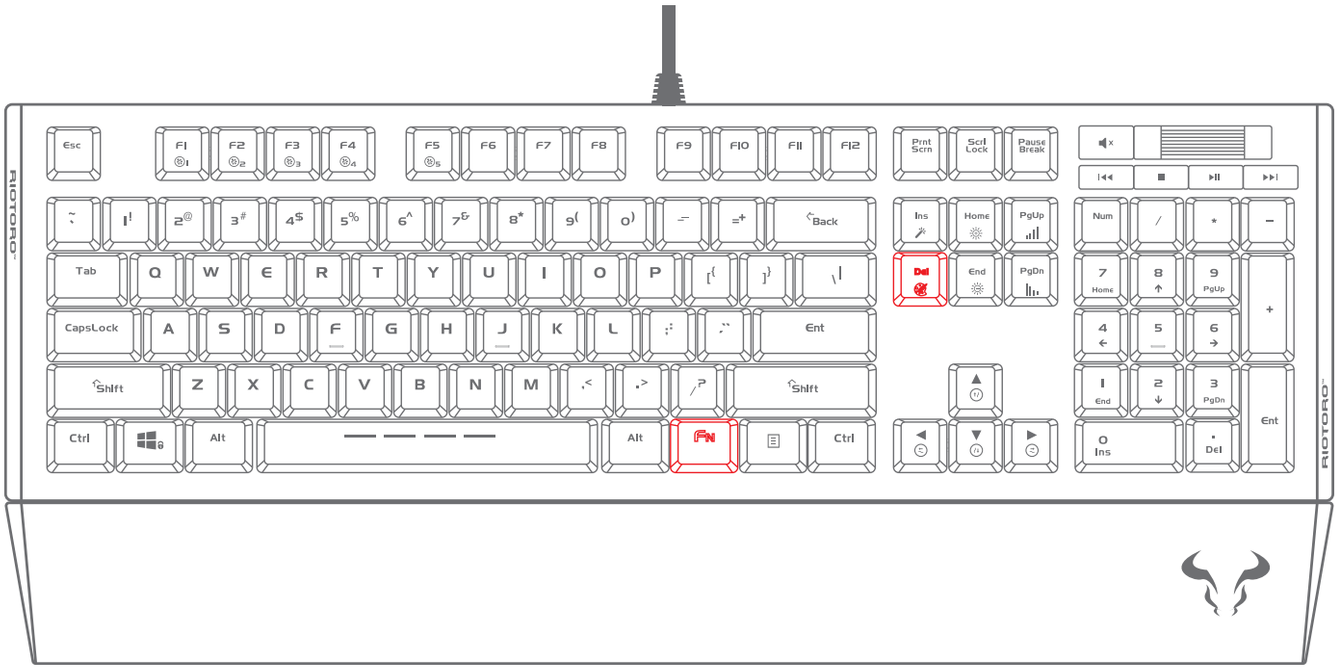
Changing Lighting Color



To select a color for a lighting mode press **Fn+Delete** to step through all of the color options.

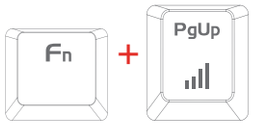
Color Sequence:

- Rainbow
- Red
- Green
- Yellow
- Blue
- Cyan
- Purple
- White

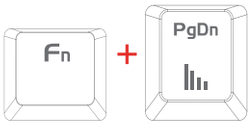


GHOSTWRITER PRISM

Changing Lighting Color



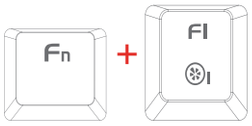
Increase effect speed



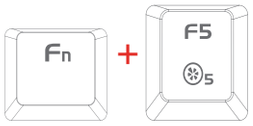
Decrease effect speed

To increase the speed of a lighting effect press **Fn+PageUp**. The decrease the speed press **Fn+PageDown**.

Custom Lighting Maps



Through



User presets for user lighting key map

To help you quickly find important keys for your games or other software you can customize which keys in a lighting map. You can save up to 5 maps which can be recalled by pressing **Fn+F1** through **Fn+F5**.

- Press the **Fn+Print** Screen keys to enter custom light map programming mode. The **F1-F5** keys will begin to blink.
- Select any of the blinking **F1-F5** keys to assign it a custom lighting configuration. The keyboard is now in record mode.
- Press a key to change the color of the key. Pressing the key again will cycle through preset colors in this order:

Rainbow

Red

Green

Yellow

Blue

Cyan

Purple

White

Do this with all keys you wish to program.

- When Recording is complete, press FN+Print Screen to save your settings. Repeat the previous steps to customize of other presets.

3

Specifications

Specifications

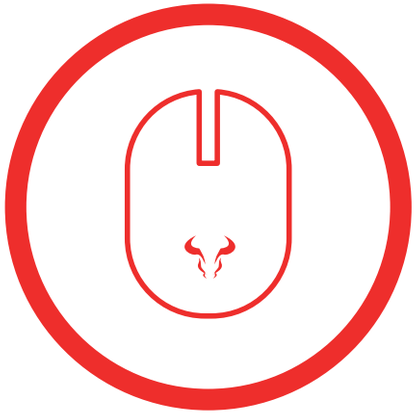
Number of Keys	- 104
Key Switches	- Cherry MX switches
Materials	- Aluminum top plate - ABS plastic with metal baseplate
Media and Volume Controls	- Play/Pause - Stop - Forward - Rewind - Mute - Volume Roller
Lighting	- Individually back lit RGB per key 24-bit 16.8 million colors - 5 brightness levels brightness setting from keyboard - 5 presets for customizable lighting key maps - Pre-programmed effects (select from keyboard without software)

Specifications

Keyboard Performance	- 100% Anti-Ghosting - Full N key rollover - 1 ms response time
OS Support	- Windows 7, 8, or 10
Interface	- USB 2.0
Ports	- USB 2.0 port hub with two ports
Wrist Rest	- Detachable Magnetic

GHOSTWRITER PRISM

Recommended Peripherals



GAMING MICE

AUROX: Delivers 10,000 dpi optical sensor delivers ultra-precision. Its shape is contoured to provide hours of comfort with 8 programmable buttons, including a sniper side button, to provide gamers a competitive edge. RGB lighting with constant and pulsing modes, adds the perfect amount of flash.

URUZ Z5: It delivers precise tracking complimented by professional design. The URUZ Z5 offers on the fly DPI adjustments up to 4,000 dpi, Multicolor RGB Customizable Backlighting up to 16.8 million different colors. With it's extreme RIOTORO Exclusive Stampede® Coating® the URUZ Z5 can take a beating, game after game, and last for many years to come.

GHOSTWRITER PRISM

Recommended Parts

WATER COOLING

RGB FAN

The BiFrost 240 new generation water cooling solution: The BiFrost 240 new generation water cooling solution for both AMD and Intel platforms. The BiFrost 240 uses more liquid, improving its cooling performance.

The BiFrost 120ti new generation water-cooling solution: The BiFrost 120ti a new generation water cooling solution for both AMD and Intel platforms. Using a 45mm extra thick radiator, the Bifrost 120ti uses more liquid, improving its cooling performance.

RIOTORO LED FAN , Cross X Red, White or Blue: The FW120 delivers unparalleled Cooling Performance with it's Precision-Molded Fan Blade Design and a Fan Speed of 1500 RPM. The FW120 exceeds expectations with a very comfortable 26.5dB decibel noise rating

GHOSTWRITER PRISM

Recommended Parts

CASES

CR1288 Full Tower: Customizable RGB Color Enthusiast Case, designed to deliver unparalleled cooling performance, quiet operation, complete color customization and with an elegant but aggressive design.

CR1088 Full ATX Case: Is featured as one of the smallest ATX Cases supporting the Full ATX standard. The CR1088 delivers a truly exceptional cooling for its size.

CR500: The budget-friendly CR500's steel and tempered glass design showcase your build. Its dual chambers and direct airflow layout keep the PC cool and quiet.

CR488: Was engineered to provide a solution that offers plenty of expansion space, and lots of features at a very competitive price.

4

Everything Else

GHOSTWRITER PRISM

Important Safety Information

In order to achieve maximum safety while using your GHOSTWRITER PRISM, 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 RIOTORO hotline or go to www.riotoro.com for support. Do not attempt to service or fix the device yourself at any time.
- Do not take apart the device (doing so will void your warranty) and do not attempt to operate it under abnormal current loads.
- 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 switch off the device and let the temperature stabilize to an optimal level.

Operational Safety: 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 GHOSTWRITER PRISM.

- **Position:** your keyboard, mouse and monitor need to be placed directly in front of you. Place your elbows next to your side, not too far away and your mouse within easy reach.
- **Height:** Adjust the your chair and table so that the keyboard and mouse are at or below elbow height.
- **Support:** Keep your feet well supported, posture straight and your shoulders relaxed.
- **Operation:** 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. Do not rest your wrists on hard surfaces for long periods. Use a wrist rest to support your wrist while gaming.
- **Customization:** personalize your keyboard to suit your style of gaming in order to minimize repetitive or awkward motions while gaming.
- **Activity:** Ensure that you et up, step away from your desk and do exercises to stretch your arms, shoulders, neck and legs; do not sit in the same position all day.
- **Safety:** If you should experience any physical discomfort while using your Keyboard, such as pain, numbness, or tingling in your hands, wrists, elbows, shoulders, neck or back, please consult a qualified medical doctor immediately.

General Maintenance

The GHOSTWRITER PRISM 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.

Note: Do not spray liquid directly onto the keyboard, liquid could drip inside it and cause electrical shock.

GHOSTWRITER PRISM

LIMITED PRODUCT WARRANTY ("Limited Warranty")

Limited Warranty. RIOTORO warrants the Product to be free from defects in materials and workmanship when used normally in accordance with the official documentation for the applicable Warranty Period from the date of retail purchase.

Exclusions and Limitations. This Limited Warranty does not cover:

- Software, including (without limitation) software added to the RIOTORO-branded hardware products or third-party software;
- Non-RIOTORO branded products and accessories, even if packaged and sold with the Product;
- Problems with and/or damage to the Product caused by using accessories, parts, or components not made by RIOTORO;
- Damage caused by service (including upgrades and expansions) performed by anyone who is not officially acting as an employee, representative or sub-contractor of RIOTORO;
- Claims arising from any unacceptable use or care of the Product;
- Claims arising from external causes, including (without limitation), accidents, acts of God, liquid contact, fire or earthquake;
- Products with a serial number or date stamp that has been altered, obliterated or removed;
- Cosmetic damage, minor cosmetic abnormalities (including minor pixel abnormalities) and normal wear and tear, including (without limitation) scratches, dents and chips.

For the latest and current terms of the Limited Product Warranty, please visit www.riotoro.com/warranty.

RIOTORO®

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sales@riotoro.com

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www.riotoro.com