Back Cover

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Front Cover

RIOTORO™

Your Guide to Great Gaming

CR1280

Inner Back

Inner Front

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

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RIOTORO™

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Welcome to RIOTORO

Thank you for purchasing the RIOTORO PRISM CR1280 Computer Case.

The Prism CR1280 chassis allows up to 256 RGB color options to choose from, it also provides ample space and it is one of the lightest. Full tower cases in the market with support to both USB2.0 and USB 3.0.

Note: This manual is a guide for RIOTORO's computer cases. For instructions on installing the motherboard and other components, please refer to their documentation.

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Before You Begin

www.riotoro.com/cases

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PRISM CR1280
What's in the Box

CR1280 Case

Aluminum Base

Included Hardware

- 6x nylon ties
- 4x long screws
- 8x screws for fans
- 2x motherboard standoff
- 12x small Philips head screws
- 12x small accesories screws

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PRISM CR1280
Product Details

1) Front Panel:
- USB 3.0 Ports
- USB 2.0 Ports
- Microphone jack
- Headphone jack
- RGB Button
- Fast & Slow Button
- Power Switch
- Reset Switch
- Power LED Strip
- Hard Disk Drive LED

2) I/O Panel Cutout

3) PCI-E Expansion Slots

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RIOTORO Cr1280
Product Details

4) Fans & Fan/Rad Mounts

5) Motherboard Mount Points

6) Power Supply Bay

7) 2.5" Tool-less Drive Mount

8) 2.3" Tool-less Drive Mounts

9) Radiator Mounts

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PRISM CR1280
Before You Begin

Please take the following precautions:

- Handle all PC components and cards with care.
- Hold cards and processors by their edges to avoid damaging components.
- To avoid damaging components by electrostatic discharge, periodically ground yourself by touching an unpainted metal surface or by using a wrist grounding strap.
- Before connecting cables, make sure the connectors are correctly aligned.
- Consult the documentation of your motherboard and other components for specific installation instructions and troubleshooting.

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PRISM CR1280
Before You Begin

When routing cables

Route and bundle PSU and case cables to reduce clutter for a cleaner look and to improve airflow. The case is designed with cable pass-through cutouts throughout and space to conceal cables under the right side panel (as seen from the front). Use the provided nylon zip ties to hold the cables in place.

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Ready, Setup, Go

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PRISM CR1280
Remove the Case Side Panels

Put the case upright on a stable, flat surface with rear facing you. Remove the thumbscrews from both side panels and store them in a safe place. Remove each panel by sliding the panel toward the rear.

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PRISM CR1280
Install the Motherboard

The CR1280 is compatible with motherboards up to E-ATX, including ATX, Micro ATX, and Mini-ITX.

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PRISM CR1280
Install the Motherboard

Install the CPU, CPU cooler and memory on the motherboard.

Refer to your CPU and motherboard documentation how to mount the CPU and its cooler on your motherboard. If you are using a liquid CPU cooler you may find it easier to install it after the motherboard is installed in the case.

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PRISM CR1280
Install the Motherboard

Install the I/O shield

Your motherboard should have come with a standard I/O shield that exposes the rear motherboard connectors out of the back of the case. From inside, snap the I/O shield into the cutout in the rear of the case.

Example I/O panel

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PRISM CR1280
Install the Motherboard

Attach the motherboard to the case.

The CR1280 comes with most pre-installed standoff, it also adds a couple extra if you need to add them, Slide the motherboard into the I/O shield and then align the motherboards screw holes with the case standoff. Attach the motherboard to the standoffs with the provided motherboard screws.

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PRISM CR1280
Install HDD & SSD

The CR1280 has four 3.5" drive bays and four 2.5" drive bays.

These bays are located in the compartment under the motherboard, just in front of the PSU area.

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PRISM CR1280
Installing a 3.5" HDD

There are four 3.5" HDD bays located directly in front of the PSU area, each bay contains a HDD bracket that needs to be installed before sliding the HDD back.

Instructions:

- Remove the bracket and simply add the HDD, making sure the connector side is looking backwards directly to you.
- With the HDD Connector heading to your position slide it back until it is secured in the 3.5 HDD cage.
- Connect the cables, both SATA cables (energy and data)

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PRISM CR1280
Installing Drives into the 2.5" Mounts

The CR1280 case has four mounts for 2.5" drives such as solid state drives (SSD). The mounts are also Tool less.

Instructions:

- In the right side of the case, there is 4x 2.5 inch mounts compartments, place the 2.5" drives into each of the tool less brackets.
- Slide it back to its original position.

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PRISM CR1280
Attching Cables

Connect the Front Panel Switches and LEDs

The CR1280 front panel switches, LEDs, and USB ports have wire leads that need to be attached to header pins the motherboard. Refer to your mother-board manual to locate the proper motherboard header pins and attach the cable connectors listed below.

Tips:
- The LED leads are marked positive (+) or negative (–) and must be connected to the corresponding pins on the motherboard. The orientation of the switch connectors does not matter.
- Use your motherboard manual to correctly identify the front I/O connectors.

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PRISM CR1280
Attaching the Case Fan Cables

The CR1280 comes with two RGB 120mm fans—that are already connected to the RGB controller, use a SATA cable to power up the RGB controller.

Tips:
- The RGB controller supports additional PRISM RGB FANS, this can be used to connect new RGB PRISM fans (sold separately).
- Only RIOTORO compatible RGB Fans are supported by the installed controller.
- The CR1280 comes with an exhaust fan that needs to be connected to an unused motherboard fan header, please note that this fan is NON RGB and should not be connected to the RGB controller.

Note: connecting a NON RGB-RIOTORO FAN will potentially set the RGB lightning out of sync, connect any non RGB fan or third party fan to the motherboard fan headers if needed.

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PRISM CR1280
Fan Mounting Points, and Water Cooling Support

The CR1280 includes mounts for several 120 / 140mm fans. That can be added to increase cooling capacity and/or aesthetics.

Front:	2x 120mm/ 140mm fans mounts (2x 120mm Prism Fans are included)
Back:	1x 120mm exhaust fan area (1x120mm non RGB black fan included)
Top:	3x 120mm or 2x140mm fan mounts on top
Bottom:	1x120mm Fan mount.

The fan mounts on the CR1280 can also be used to mount Water cooling radiators, the following are supported:

Front:	Radiator supported: 120/140/240/280mm
Back:	Radiator supported: 120/140mm
Top:	Radiator supported: 120/140/240/280/360mm
Bottom:	Radiator supported: 120mm

Tips:
- Screws and rubber grommets are provided in the accessory box to allow you to add optional fans and radiators.
- RIOTORO recommends BiFrost Water cooling products as a perfect cooling companion for the CR1280.

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PRISM CR1280
Install the Power Supply

The power supply unit (PSU) drive bay is located on the bottom of the case in a separate compartment.

- Remove the thumb screws located on the opposite side were the motherboard area is located, Slide the PSU in the case PSU bay with the fan facing the case bottom. Push the power supply to the rear
- Align the PSU and case mounting holes and attach the power supply to the case with the provided PSU thumbscrews.
- Connect the relevant PSU cables to your motherboard and drives.

85mm 175 mm 150 mm

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PRISM CR1280
Troubleshooting Your New CR1280

The Front panel LED for Power and HDD activity does not lit.
The polarity of the LED cables matter, and they are not connected as they should (inverted polarity), connect the positive cable marked as "+" to the right motherboard "+" pin header, do the same for the negative, (refer to your MB manual to identify the right pin headers.)

RGB component is not working (i.e. fan spins but no light)
The RGB controller can only use RGB Prism fans (sold separately), If a non RIOTORO RGB PRISM class fan is connected , it will force the whole RGB controller out of sync, therefore only use appropriate RGB fans if you wish to add more Lightning to the RIOTORO PRISM controller.

How to clean the Dust filters.
The CR1280 comes with dust filters, and are meant to help keep the computer components clean, blocking the dust from the outside; they are located across several points that could potentially be used as intake areas. (Fresh air intake)

- Magnetic filters: simply detach those filters, and use compressed canned air.
- Slide in filters: usually located on the bottom of the case, this needs to be gently pulled out, and use canned air to clean, once done just push it back to its position.
- Front bezel Foam filter: to access this, just pull the bezel from the bottom. Once detached, Use canned air to clean it and then reinstall it

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Specifications

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PRISM CR1280
Specifications

Motherboard Support	- E-ATX, ATX, Micro ATX, Mini-ITX
Drive Bays	- 4x 3.5" - 4x 2.5"
Front Panel I/O	- 2x USB 3.0 ports - 2x USB 2.0 ports - 1x Headphone - 1x Microphone - RGB button - Fan Slow and Fast Buttons
Expansion Slots	- 8
Fans	- **Front:** 2x 120mm RGB PRISM intake fans (included). - **Back:** 1x120mm exhaust fan. (included) **Additional fan mounting points.** - **Bottom:** 1x 120mm - **Top:** 3x120mm/2x140mm

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PRISM CR1280
Specifications

Fan/Radiator Mount Points	- **Rear:** 1 x 140/120mm radiator - **Top:** 3x120/2x140mm Radiator - **Front:** 2x120/140mm Radiator
PSU Support	- Standard ATX up to 220mm Long
Max. GPU Length	- 400mm - 180mm - Up to 220mm
Materials	- Steel, aluminum, plastic
Dimensions	- 478.1 x 250.72 x 577.50 mm
Weight	- 17.5lbs/7.93kg

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RIOTORO Cr1280
Recommended Parts

POWER SUPPLY UNIT

ONYX 650W & ONYX 750W: Are designed to hit the sweet spot for practical real-world performance, reliability, and price. To protect you and your PC, ONYX PSUs include full over-voltage, under-voltage, over-current, over-power, and short-circuit protections.

ENIGMA 850W: Unleash your gaming computer potential with the high efficiency and power of ENIGMA power supplies. The large built-in fan prevents it from overheating during heavy use, and the sturdy construction makes it easy to mount.

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PRISM CR1280
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

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PRISM CR1280
Recommended Peripherals

GAMING MICE

GAMING KEYBOARD

The 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 Back-lighting up to 16.8 million different colors.

The Ghostwriter Classic: is a brand new keyboard featuring unique stealth design and low-profile, quiet membrane keys blend understated style with comfort and quiet efficiency.

The Ghostwriter PRISM: features cutting edge stealth design with German made Cherry MX switches. With many different options to choose from, the Ghostwriter PRISM keyboards have been designed to enhance your gaming style.

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Everything Else

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PRISM CR1280
Important Safety Information

In order to achieve maximum safety while using your PRISM CR1280, 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 with damaged cables.
- 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 injuries to nerves, tendons, and muscles. Below are some guidelines to avoid injury and ensure optimum comfort while using your PRISM CR1280.

- **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.
- **Avoid Repetitive Motions:** Plan your work to avoid long periods of time using the same 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 sit 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.

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PRISM CR1280
General Maintenance

If you need to clean your gaming computer by doing more than wiping it down with a clean cloth, follow these instructions:

- Complete power down of your machine, display and peripherals.
- Disconnect all the power cables from the electrical outlet power strip.
- Disconnect all peripherals from the machine.
- Clean the machine with a soft, lint-free paper or cloth damped with mild soap and water.

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

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PRISM CR1280
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.

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