

COUGAR FV150 RGB

COUGAR FV150 RGB Gaming Case Mid Tower User Manual

Model: FV150 RGB

1. PRODUCT OVERVIEW

The COUGAR FV150 RGB is a mid-tower gaming case designed for high-performance PC builds. It features a dual-chamber design, separating the main components from cables, storage drives, and the power supply unit (PSU) for a clean aesthetic and improved airflow. The case supports various motherboard form factors and offers extensive cooling options, including pre-installed ARGB fans.

Key Features:

- **Dual-Chamber Design:** Provides a clear view of your build through glass panels while concealing cables and other components.
- **GPU Support:** Accommodates graphics cards up to 400mm in length, with options for vertical GPU orientation.
- **Motherboard Compatibility:** Supports Mini-ITX, Micro-ATX, and ATX motherboards.
- **Engineered Bottom Fan Bracket:** Simplifies fan installation by allowing attachment prior to setup.
- **Extensive Fan & Water Cooling Support:** Multiple fan mounting points and radiator support up to 360mm.
- **Seamless RGB Synchronization:** Integrated universal fan hub for easy ARGB lighting control.
- **Modern I/O Panel:** Includes 2 x USB Type-A and 1 x USB 3.2 Type-C ports.
- **Flexible Storage:** Supports combinations of 3.5" HDDs and 2.5" SSDs.
- **Magnetic Dust Filters:** Located on the top and right side for easy maintenance.



Image 1.1: Angled view of the COUGAR FV150 RGB case, highlighting its dual-chamber design and pre-installed ARGB fans.

2. SETUP AND INSTALLATION

Follow these steps for proper installation of your PC components into the COUGAR FV150 RGB case.

2.1 Unpacking and Initial Inspection

- Carefully remove the case from its packaging.
- Inspect the case for any signs of damage during transit.
- Remove the tempered glass side panel by unscrewing the thumb screws, if present, or by releasing the latch mechanism.

2.2 Motherboard Installation

- Ensure the correct standoffs are installed for your motherboard form factor (Mini-ITX, Micro-ATX, or ATX).
- Place the I/O shield into the rear opening of the case.
- Carefully align your motherboard with the standoffs and I/O shield, then secure it with screws.

2.3 Power Supply Unit (PSU) Installation

- The FV150 RGB supports bottom-mount PSUs.
- Slide the PSU into its designated compartment in the secondary chamber from the rear of the case.
- Secure the PSU with screws from the exterior rear of the case.

2.4 Storage Drive Installation

- Locate the drive bays in the secondary chamber.
- For 3.5" HDDs, slide the drive into the appropriate tray and secure it.
- For 2.5" SSDs, mount them to the designated brackets or trays.

2.5 Graphics Card (GPU) Installation

- Remove the necessary expansion slot covers at the rear of the case.
- Insert your GPU into the PCIe slot on the motherboard and secure it with screws.
- The case supports GPUs up to 400mm. For vertical GPU mounting, a separate riser cable and bracket (not included) are required.



Image 2.1: Internal view illustrating the main chamber for motherboard and GPU installation, with pre-installed side fans.

2.6 Fan and Radiator Installation

- The case comes with 3 x 120mm ARGB side fans and 1 x 120mm ARGB rear fan pre-installed.
- Additional fans can be installed at the top (3 x 120mm or 2 x 140mm) and bottom (3 x 120mm or 2 x 140mm).
- Utilize the engineered bottom fan bracket for easier installation of bottom fans.
- For water cooling, radiators up to 360mm can be mounted on the top and 240mm on the side.



Image 2.2: Top internal view, showing potential mounting locations for additional cooling fans or radiators.

2.7 Cable Management

- Route all power and data cables through the cutouts to the secondary chamber.
- Utilize the ample space and tie-down points in the secondary chamber to organize cables for optimal airflow and a clean appearance.

2.8 Connecting Front I/O Panel

- Connect the front panel cables (USB 3.2 Type-C, USB Type-A, audio, power, reset, LED) to the corresponding headers on your motherboard.

3. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

3.1 Powering On

- Ensure the PSU switch is in the 'ON' position.
- Press the power button on the front I/O panel of the case.

3.2 RGB Lighting Control

- The integrated universal fan hub allows for easy synchronization of ARGB lighting.
- Connect the hub to your motherboard's ARGB header (5V 3-pin) to control lighting effects via motherboard software.
- Alternatively, use the dedicated RGB button on the front I/O panel to cycle through pre-set lighting modes if not connected to a motherboard header.

4. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your PC components.

4.1 Dust Filter Cleaning

- The COUGAR FV150 RGB features magnetic dust filters on the top and right side, along with a ventilated bottom cover.
- Gently remove the magnetic dust filters.
- Clean them using compressed air or by rinsing with water (ensure they are completely dry before reattaching).
- Periodically clean the ventilated bottom cover.

4.2 General Cleaning

- Use a soft, dry cloth to wipe down the exterior surfaces of the case.
- For tempered glass panels, use a glass cleaner and a microfiber cloth to avoid streaks.
- Avoid using harsh chemicals or abrasive materials that could damage the finish.

5. TROUBLESHOOTING

This section provides solutions for common issues you might encounter.

5.1 System Not Powering On

- **Check PSU:** Ensure the power supply unit is properly connected to the wall outlet and the PSU switch is in the 'ON' position.
- **Front Panel Connections:** Verify that the power button cable from the case is correctly connected to the motherboard's front panel header.
- **Internal Power Cables:** Confirm all necessary power cables (24-pin ATX, 8-pin CPU, PCIe for GPU) are securely connected to the motherboard and components.

5.2 Fans Not Spinning or RGB Not Working

- **Fan Connections:** Ensure all fan power cables are securely connected to the fan hub or motherboard headers.
- **RGB Connections:** Verify the ARGB cables are correctly connected to the fan hub and the hub is connected to a 5V 3-pin ARGB header on the motherboard.
- **Software/Button:** If connected to the motherboard, check your motherboard's RGB control software. If

not, try pressing the RGB button on the case's I/O panel to cycle modes.

5.3 USB Ports Not Functioning

- **Internal USB Headers:** Confirm that the USB 3.0 and USB Type-C cables from the front I/O panel are correctly plugged into the corresponding headers on your motherboard.
- **Motherboard Drivers:** Ensure you have installed the latest chipset and USB drivers for your motherboard.

6. SPECIFICATIONS

Detailed technical specifications for the COUGAR FV150 RGB Gaming Case.



Image 6.1: Case dimensions for planning your setup.

Feature	Specification
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Feature	Specification
Product Name	FV150 RGB
Case Form Factor	Mid Tower
Motherboard Compatibility	Mini-ITX, Micro-ATX, ATX
Dimensions (W x H x D)	300 x 400 x 415 mm (11.8" x 15.7" x 16.3")
I/O Panel	USB 3.2 Gen 2 Type-C x 1, USB-A 3.0 x 2, 4 Pole Headset Audio Jack, RGB Button
3.5" Drive Bay	2
2.5" Drive Bay	1+1 (converted from 3.5" drive bays)
Expansion Slots	7+3
Vertical GPU Support	Yes
Cooling Fan Support (Top)	3 x 120mm or 2 x 140mm
Cooling Fan Support (Bottom)	3 x 120mm or 2 x 140mm
Cooling Fan Support (Side)	3 x 120mm
Cooling Fan Support (Rear)	1 x 120mm
Pre-installed Fans (Side)	3 x 120mm ARGB (Reversed)
Pre-installed Fans (Rear)	1 x 120mm ARGB
Pre-installed Fan Speed	1000 (±10%) RPM
Pre-installed Fan Connector	5V 3 Pin (ARGB) / 3 Pin (Fan)
Maximum Number of Fans	10
Water Cooling Support (Top)	360mm / 280mm / 240mm
Water Cooling Support (Side)	240mm / 120mm
Water Cooling Support (Rear)	120mm
RGB Hub Sync with M/B	Yes
Max. Graphics Card Length	400 mm (15.7 in)
Max. CPU Cooler Height	180 mm (7.1 in)
Max. PSU Length	210 mm (8.3 in)
Material	Metal

Feature	Specification
Item Weight	6.83 Kilograms

7. WARRANTY INFORMATION

COUGAR products are manufactured to the highest quality standards. This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to the official COUGAR website or contact your local retailer.

8. SUPPORT

If you encounter any issues or have questions regarding your COUGAR FV150 RGB Gaming Case that are not covered in this manual, please contact COUGAR customer support.

- Visit the official COUGAR website for FAQs, driver downloads, and support contact information.
- Contact your retailer for assistance with product returns or exchanges.