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› **darkFlash DY470 Full-Tower ATX Gaming PC Case Instruction Manual**

darkFlash DY470

darkFlash DY470 Full-Tower ATX Gaming PC Case Instruction Manual

Model: DY470

1. INTRODUCTION

The darkFlash DY470 is a full-tower ATX gaming PC case designed for high-performance builds. It features a unique angled tempered glass panel, a dual-chamber layout for efficient component separation and airflow, and extensive compatibility for modern hardware including large GPUs and dual 360mm radiators. The case prioritizes ease of installation with a snap-on design and thoughtful cable management solutions.



Image 1.1: The darkFlash DY470 case showcasing its panoramic glass and internal component layout with RGB lighting.

2. PACKAGE CONTENTS

- darkFlash DY470 Full-Tower ATX Gaming PC Case
- 1 x 120mm PWM ARGB Fan (pre-installed, typically at the rear)
- Accessory Box (containing screws, standoffs, cable ties, etc.)
- User Manual

3. SPECIFICATIONS

Brand	darkFlash
Model Name	DY470
Case Type	Full Tower

Material	Metal, Tempered Glass
Color	White
Product Dimensions (LxWxH)	18.66 x 11.77 x 19.6 inches
Item Weight	22 pounds
Motherboard Compatibility	ATX, M-ATX, ITX (supports ATX back-mounted motherboards)
GPU Clearance	Up to 410mm in length (horizontal insertion), 390mm (vertical mounted)
CPU Air Cooler Height	Up to 175mm (Max.)
PSU Length	Up to 180mm (Max.)
Cooling Method	Air, Water
Fan Support	Up to 10 x 120mm fans (3x120mm/2x140mm Top, 3x120mm/2x140mm Side, 3x120mm/2x140mm Bottom, 1x120mm Rear)
Radiator Support	Up to 360mm (Top), Up to 360mm (Side), 120mm (Rear)
Drive Bays	2 x 3.5" HDD, 1 x 2.5" SSD
Front I/O Ports	1 x USB 3.0, 2 x USB 2.0, 1 x Type-C, HD Audio, Microphone, Power, Reset, LED Control

4. SETUP AND INSTALLATION

4.1. Panel Removal

The darkFlash DY470 case features tool-less panel removal for easy access to components. The tempered glass side panel and top panel can be easily detached.

- 1. Top Panel:** Gently pull the top panel upwards from the rear to detach it. The top panel includes a non-removable dust filter.
- 2. Left Side Panel (Tempered Glass):** The tempered glass panel is secured with a pull tab. Gently pull the tab to release the panel. Handle with care to avoid damage.
- 3. Right Side Panel (Steel):** The steel side panel also features a snap-on design. Gently pull the panel from the rear to detach it. This panel is ventilated and includes a removable dust filter for the power supply area.

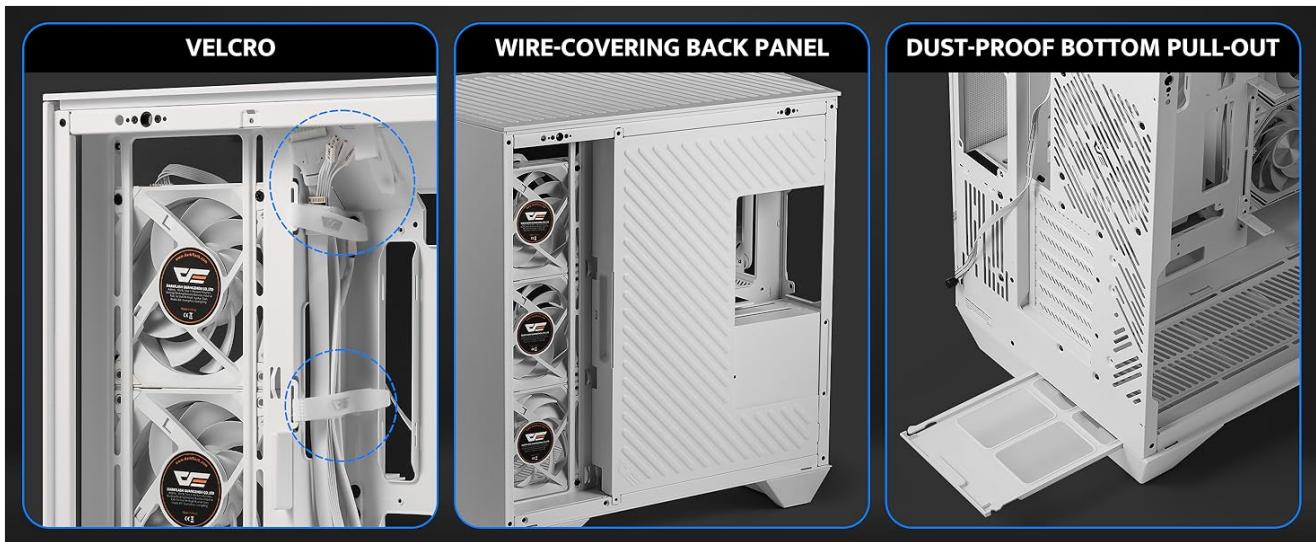


Image 4.1: Illustration of the easy-to-install features, including screwless disassembly on four sides.

4.2. Motherboard Installation

The DY470 supports ATX, M-ATX, and ITX motherboards, including ATX back-mounted motherboards. Install the necessary standoffs in the motherboard tray before securing your motherboard with screws.

4.3. GPU Installation

The case supports both horizontal and vertical GPU mounting. For horizontal mounting, GPUs up to 410mm in length are supported. For vertical mounting, GPUs up to 390mm are supported. The vertical GPU mounting bracket is slotted for four slots. Note that a riser cable for vertical GPU mounting is not included and must be purchased separately.



Image 4.2: GPU compatibility details, showing maximum lengths for both horizontal and vertical installations.

4.4. Power Supply Installation

The power supply unit (PSU) is mounted at the bottom of the case in the dual-chamber design. The case supports PSUs up to 180mm in length.

4.5. Storage Installation

The case provides mounting options for 2 x 3.5" HDDs and 1 x 2.5" SSD. These are typically located in the hidden chamber behind the motherboard tray for clean cable management.

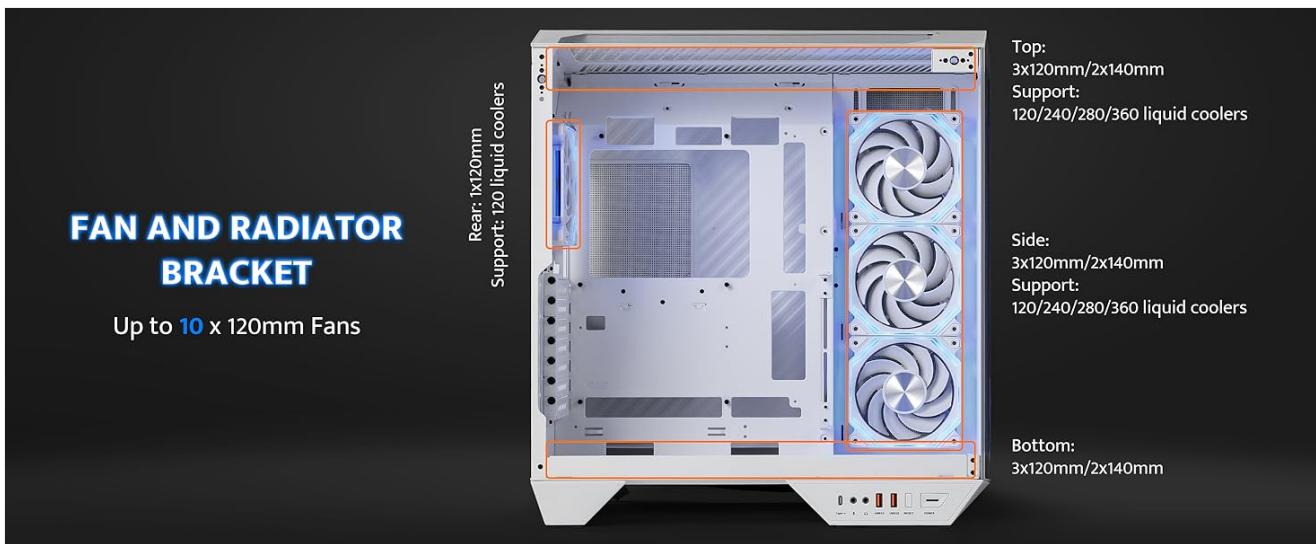


Image 4.3: Drive bay locations for storage devices.

4.6. Fan and Radiator Installation

The DY470 offers extensive cooling options, supporting up to 10 x 120mm fans and dual 360mm radiators. A 120mm PWM ARGB fan is pre-installed at the rear. Additional fans and radiators can be installed at the top, side, and bottom.

- **Top:** Supports 3x120mm or 2x140mm fans, or 120/240/280/360 liquid coolers.
- **Side:** Supports 3x120mm or 2x140mm fans, or 120/240/280/360 liquid coolers.
- **Bottom:** Supports 3x120mm or 2x140mm fans.
- **Rear:** Supports 1x120mm fan or 120 liquid cooler.



Image 4.4: Fan and radiator bracket locations and supported sizes.

4.7. Cable Management

The dual-chamber design and included velcro straps facilitate hassle-free cable management. The wire-covering back panel helps keep cables tidy and out of sight, ensuring optimal airflow and a clean aesthetic.

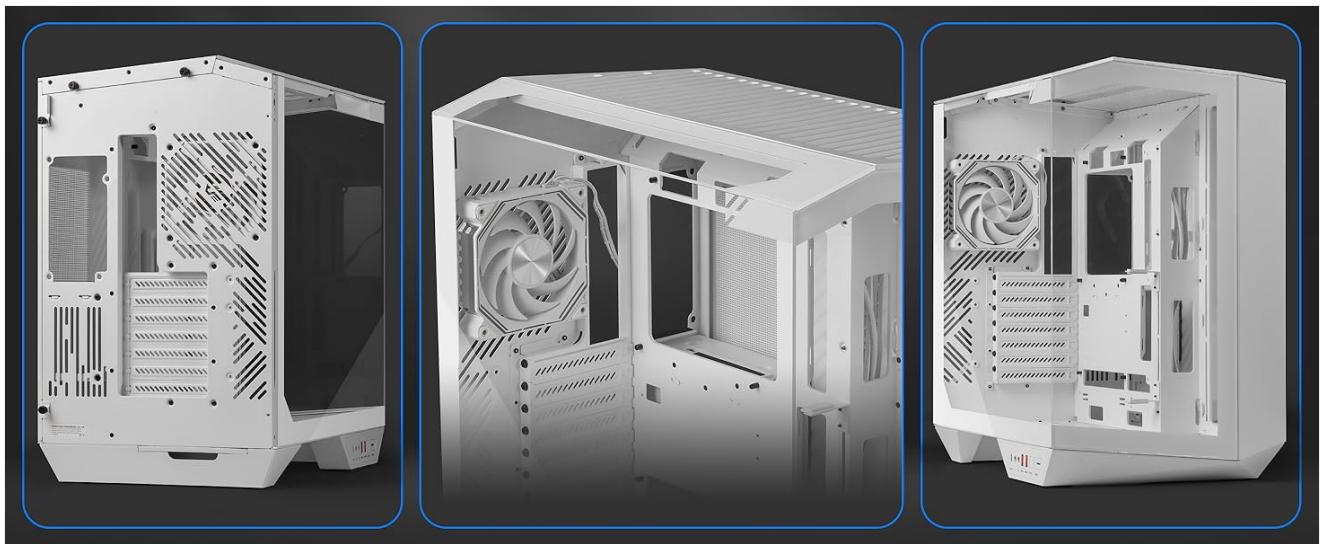


Image 4.5: Cable management features including velcro straps and a wire-covering back panel.

4.8. Front I/O Connections

The front I/O panel is conveniently located at the bottom front of the case, offering various ports for connectivity.

- 1 x USB 3.0
- 2 x USB 2.0
- 1 x Type-C
- HD Audio Jack
- Microphone Jack
- Power Button
- Reset Button
- LED Control Button

EXQUISITE TEXTURE & HIGH SPEED IO PANEL

USB 3.0-300MB/s
Type-C-1280MB/s



Image 4.6: Detailed view of the front I/O panel.

5. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system using the power button on the front I/O panel. The LED control button allows you to cycle through various RGB lighting modes for the included ARGB fan and any other compatible ARGB components connected to your motherboard's RGB header.

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Video 5.1: A short video showcasing the darkFlash DY470 PC Case with various RGB lighting effects.

6. MAINTENANCE

6.1. Dust Filter Cleaning

The case includes a pull-out dust filter at the bottom, which helps prevent dust accumulation inside the system. Regularly clean this filter to maintain optimal airflow and component longevity.

- To clean, gently pull out the bottom dust filter.
- Remove accumulated dust using a soft brush or compressed air.
- Slide the clean filter back into its slot.

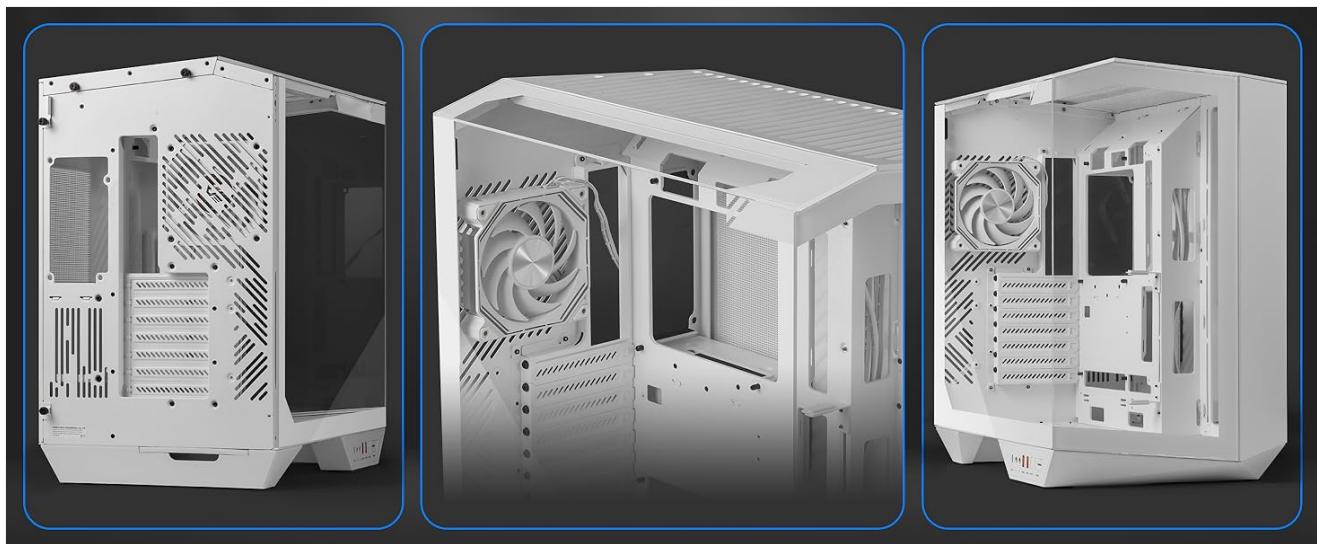


Image 6.1: The dust-proof bottom pull-out filter for easy cleaning.

6.2. General Cleaning

For external surfaces, use a soft, damp cloth to wipe down the case. Avoid abrasive cleaners or solvents that could damage the finish or tempered glass. For internal cleaning, use compressed air to remove dust from fans and components.

7. TROUBLESHOOTING

- **Fans/RGB not lighting up:** Ensure all fan power cables are correctly connected to the fan hub/controller and that the fan hub/controller is receiving power (e.g., via a SATA power connector from the PSU). Also, verify that the ARGB signal cable from the fan hub/controller is connected to a compatible ARGB header on your motherboard. Note: An RGB Hub Controller is not included with the case.
- **Front I/O ports not working:** Check that all front I/O cables (USB 3.0, USB 2.0, Type-C, HD Audio, Power, Reset, LED) are securely connected to the correct headers on your motherboard.
- **System not powering on:** Confirm that the power supply is properly installed and switched on, and that the power button cable is correctly connected to the motherboard.

8. WARRANTY AND SUPPORT

The darkFlash DY470 PC Case comes with a 1-year assurance from the darkFlash brand. For technical support, warranty claims, or further assistance, please refer to the contact information provided on the darkFlash official website or your retailer's support channels.