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darkFlash DY460

darkFlash DY460 ATX Full-Tower PC Gaming Case User Manual

Model: DY460 | Brand: darkFlash

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your darkFlash DY460 ATX Full-Tower PC Gaming Case. Designed for high airflow and extensive hardware compatibility, this case features a 330° full-view tempered glass design and comes with four pre-installed ARGB PWM fans. Please read this manual thoroughly before beginning your PC build to ensure a smooth and successful experience.

2. PRODUCT FEATURES

2.1. 330° Full-View Tempered Glass Panels

The darkFlash DY460 features triple tempered-glass panels on the front, top, and side, providing a panoramic view of your internal components. Its full-tower design offers generous internal space, accommodating large hardware such as GPUs up to 400mm in length.

TYPE-C INCLUDED

I/O with Type-C port designed on front, provides pithy cable routing and easy to use.



10 USB 3.2 Gen 2
Gbit /s

PLEASE USE A MOTHERBOARD THAT SUPPORTS
USB TYPE-C TO HAVE THE BEST EXPERIENCE.



Image: Panoramic view of the darkFlash DY460 case.

2.2. Pre-installed 4× darkFlash INF34 ARGB PWM Fans

The case includes four 120mm ARGB PWM fans (darkFlash INF34) that provide both vibrant lighting and precise speed control (0-1800 RPM) for balanced cooling and low noise. These fans are strategically placed to optimize airflow within the full-tower layout.



LUXURY SELECTION PC CASE

DY460

BLACK



Chassis : DY460 Black | System Fan : Infinity 34 | CPU Cooler : DE360 Black

Image: Interior view highlighting pre-installed ARGB fans.

2.3. High-Airflow Layout & 360mm Radiator Support

Optimized for superior cooling, the DY460 supports a 360mm radiator at the top and a 240mm radiator at the front. Additionally, three 120mm fan slots are available at the bottom. A 34mm rear cable routing space ensures a tidy build, preventing airflow obstruction. The spacious design is compatible with AIO liquid cooling systems and large air coolers.

MULTIFUNCTION BRACKET

Maximum compatibility
S.S.D. x 1 pcs + H.D.D. x 2 pcs

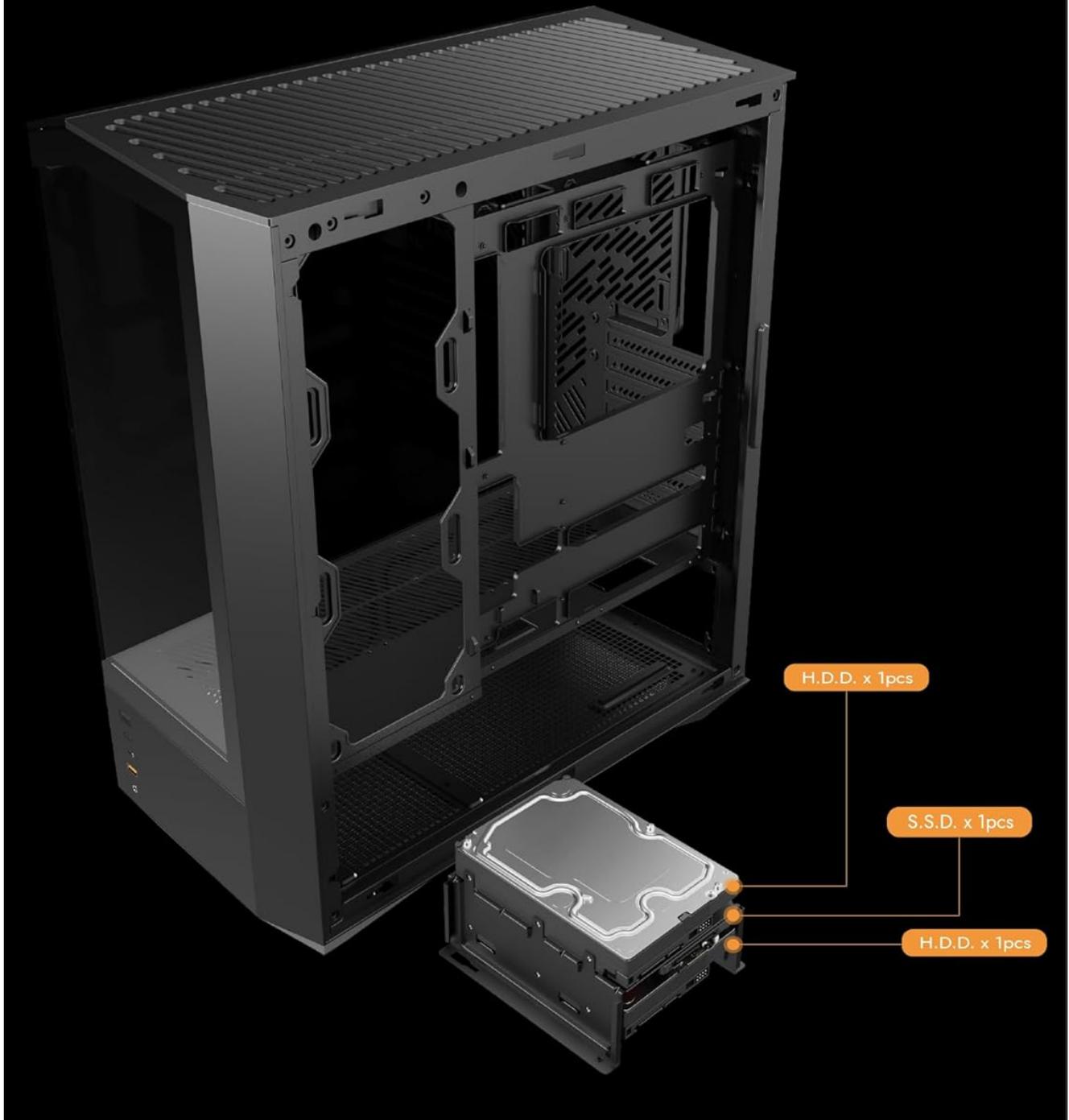


Image: Airflow diagram illustrating cooling paths.

SUPERIOR HEAT DISSIPATION

Supports up to 10pcs 120mm fans for best temperature performance.



FAN SUPPORTS

140 mm

120 mm

1

PCS

10

PCS

FAN INSTALL SUGGESTION

Please install the fans as the suggestion to perform the best heat dissipation with our structure design.

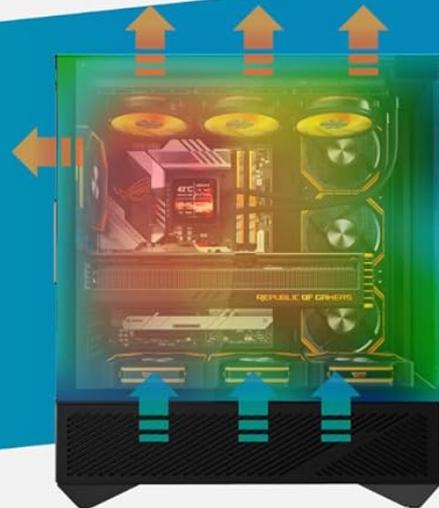


Image: Fan and radiator support specifications.

2.4. Full-Tower GPU & CPU Cooler Support

This case accommodates GPUs up to 400mm horizontally, making it compatible with high-end cards like the RTX 5090. CPU coolers up to 185mm in height are also supported. Vertical GPU mounting is possible with a separately sold bracket. Always confirm your hardware dimensions before purchase.

EXCELLENT EXPANDABILITY

Spacious and clean interior design allows users to upgrade easily.



Image: Internal dimensions for GPU and CPU cooler clearance.

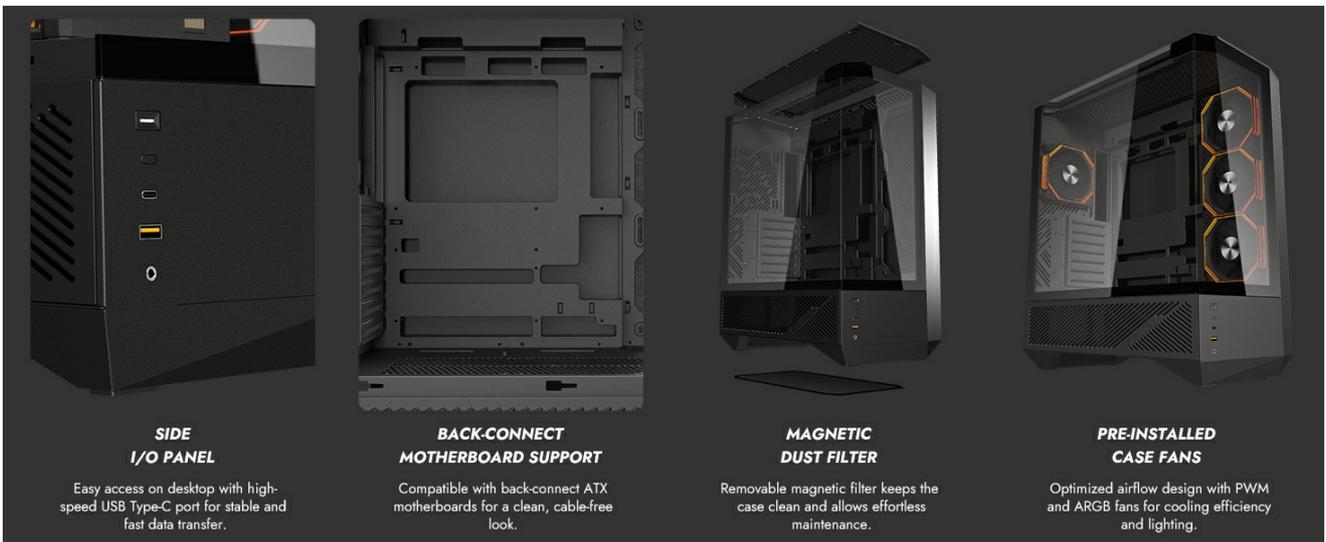


Image: Optional vertical GPU mount kit.

2.5. Separate PSU Chamber & Top USB-C I/O

A dedicated power supply unit (PSU) chamber at the bottom isolates cables, improving internal airflow and aesthetics. The top I/O panel includes a high-speed USB-C (10Gbps) port and a USB 3.0 port for convenient connectivity. The 34mm cable routing depth facilitates easy cable management, even for complex builds with multiple storage drives.



Image: Top I/O panel with USB-C and USB 3.0 ports.

HARDWARE COMPATIBILITY

CASE FAN	RADIATOR	HDD/SSD
Fan Support : Top : 120mm*3 Side : 120mm*3 Bottom : 120mm*3 Rear : 120mm*1	Radiator Support : Top : 360 / 240 / 120 Rear : 120mm*1	Fan Support : 3.5 H.D.D x 2 2.5 S.S.D x 1
GPU MAX.	CPU MAX.	PSU
GPU Length : 410mm	CPU Height : 175mm	Power Supply : ATX 200mm

Image: Multifunction bracket for storage drives.

2.6. Back-Connect Motherboard Support

The DY460 supports ATX and M-ATX back-connect motherboards, allowing most cables to be routed behind the motherboard tray. This design contributes to a visually clean and organized interior.



Image: Back-connect motherboard compatibility.

2.7. Magnetic Dust Filters

For easy maintenance and to keep the interior clean, the case includes removable magnetic dust filters.

BACK-CONNECT MOTHERBOARD SUPPORTED

Support ATX/ M-ATX back-connect motherboard ,
Most of the wires are not exposed on the front of the case,
making the case visually simple and clean.



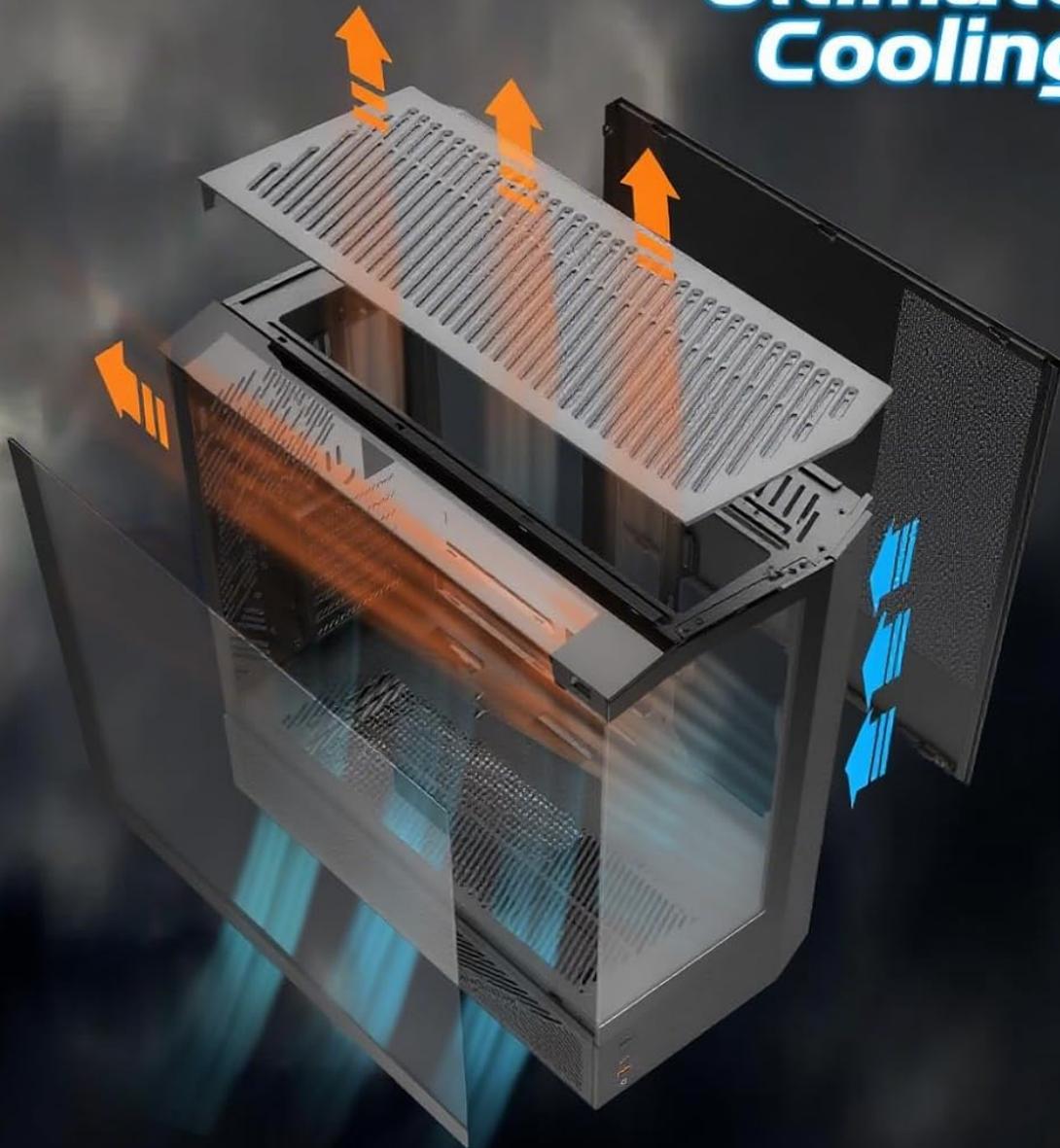
Image: Case features including magnetic dust filters.

3. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	darkFlash
Model Number	DY460
Series	DF-DY460-BK-4F
Case Type	Full Tower
Motherboard Compatibility	ATX
Product Dimensions (LxWxH)	9.37 x 17.8 x 19.88 inches (23.8 x 45.2 x 50.5 cm)
Item Weight	23.4 pounds (10.6 kg)
Color	Black
Material	Metal, Plastic, Tempered Glass
Number of USB 3.0 Ports	1 (plus 1 USB-C)
Power Supply Mounting Type	Bottom Mount
Cooling Method	Air, Water
Recommended Uses	Gaming

Modular Structure Ultimate Cooling



豆包AI生成

Image: Detailed hardware compatibility chart.

4. SETUP GUIDE

Follow these general steps to assemble your PC within the darkFlash DY460 case. For a visual guide, please refer to the embedded video below.

1. **Unpacking and Inspection:** Carefully remove the case from its packaging and inspect for any damage.
2. **Panel Removal:** Gently remove the tempered glass side panels and the top panel to access the interior.
3. **Motherboard Installation:** Install your CPU and RAM onto the motherboard. Then, secure the motherboard into the case using the provided standoffs and screws.
4. **Power Supply Installation:** Mount your power supply unit (PSU) in the dedicated bottom chamber.
5. **Storage Drive Installation:** Install your SSDs and HDDs using the multifunction brackets.
6. **GPU Installation:** Install your graphics card into the appropriate PCIe slot. Ensure it is securely fastened.
7. **Fan/Radiator Installation:** If installing additional fans or radiators, mount them in the designated positions (top, front, bottom, rear).
8. **Cable Management:** Route all necessary cables through the cutouts and utilize the 34mm space behind the motherboard tray for a clean build.
9. **Closing the Case:** Reattach all panels securely.



Video: Official darkFlash DY460 Full-Tower PC Gaming Case build guide. This video demonstrates the assembly process, including component installation and cable management.

5. OPERATING INSTRUCTIONS

- **Powering On:** Locate the power button on the top I/O panel. Press it once to power on your system.
- **I/O Ports:** Utilize the conveniently located USB-C (10Gbps), USB 3.0, and audio ports on the top panel for connecting peripherals and external devices.
- **Fan Control:** The pre-installed PWM fans can be controlled via your motherboard's fan headers and accompanying software. Adjust fan speeds to achieve your desired balance of cooling performance and noise levels.
- **ARGB Lighting:** The ARGB fans can be synchronized with compatible motherboard software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion) or a dedicated ARGB controller (if included or purchased separately) to customize lighting effects and colors.

6. MAINTENANCE

- **Dust Filters:** Regularly remove and clean the magnetic dust filters located on the case to maintain optimal airflow and prevent dust buildup inside your system. Clean with water and mild soap, or simply brush off accumulated dust. Ensure they are completely dry before reattaching.
- **Interior Cleaning:** Periodically clean the interior of the case and components with compressed air to remove dust. Ensure the system is powered off and unplugged before cleaning.
- **Tempered Glass Panels:** Clean glass panels with a soft, lint-free cloth and a non-abrasive glass cleaner. Avoid harsh chemicals that may damage the glass or coatings.

7. TROUBLESHOOTING

- **Component Fit Issues:** If a component (e.g., GPU, CPU cooler) does not fit, double-check its dimensions against the case specifications (GPU length max 400mm, CPU cooler height max 185mm). Ensure all cables are routed efficiently to avoid obstruction.
- **Airflow Concerns:** Verify that all installed fans are correctly oriented for optimal intake and exhaust. Refer to the airflow diagrams in the 'Product Features' section. Ensure no cables or components are blocking airflow paths.
- **Loose Glass Panels:** When removing tempered glass panels, exercise extreme caution. Support the panel firmly with one hand as you loosen fasteners to prevent accidental drops, as they may not be secured by channels or hooks.
- **Cable Management Difficulties:** Utilize the generous 34mm rear cable routing space. Organize cables with zip ties or

Velcro straps to prevent them from interfering with components or airflow.

8. WARRANTY AND SUPPORT

The darkFlash DY460 PC Gaming Case comes with a manufacturer's warranty. For specific warranty terms, technical support, or replacement parts, please refer to the official darkFlash website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Official darkFlash Website: www.darkflash.com