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darkFlash DS900

darkFlash DS900 ATX PC Case User Manual

Model: DS900

1. Introduction

Thank you for choosing the darkFlash DS900 ATX Full View Dual Tempered Glass PC Case. This manual provides detailed instructions for the installation, operation, and maintenance of your new PC case, including the integrated PWM ARGB fans. Please read this manual thoroughly before beginning assembly to ensure proper setup and optimal performance.

Figure 1.1: The darkFlash DS900 ATX PC Case, showcasing its full view tempered glass panels and pre-installed ARGB fans.

2. Product Features

- **Optimum Performance and Cooling:** Equipped with four PWM ARGB fans, supporting up to 10 fans and a 360MM radiator for efficient cooling. Includes additional G24 PWM magnetic fans for enhanced heat dissipation.
- **Unobstructed View:** Features a 270° panoramic tempered glass panel for an expansive view of internal hardware and RGB lighting. High-strength tempered glass ensures clarity and durability.
- **Thoughtful Design for Performance:** Includes a magnetic top dust filter and a panel filter for component cleanliness. Anti-slip bottom prevents sliding. G24 hydro-bearing fans maintain low noise levels (33.5 dBA) and offer extended lifespan.

- **Enhanced Cable Management:** Tool-less design features and ample space for expansion simplify upgrades and maintenance. Magnetic fan mounting system allows for quick installation.
- **Customizable Aesthetics:** G24 PC Fans feature ARGB lighting compatible with most addressable RGB motherboards (e.g., Aura Mystic Light, Polychrome Sync) for synchronized visual effects.

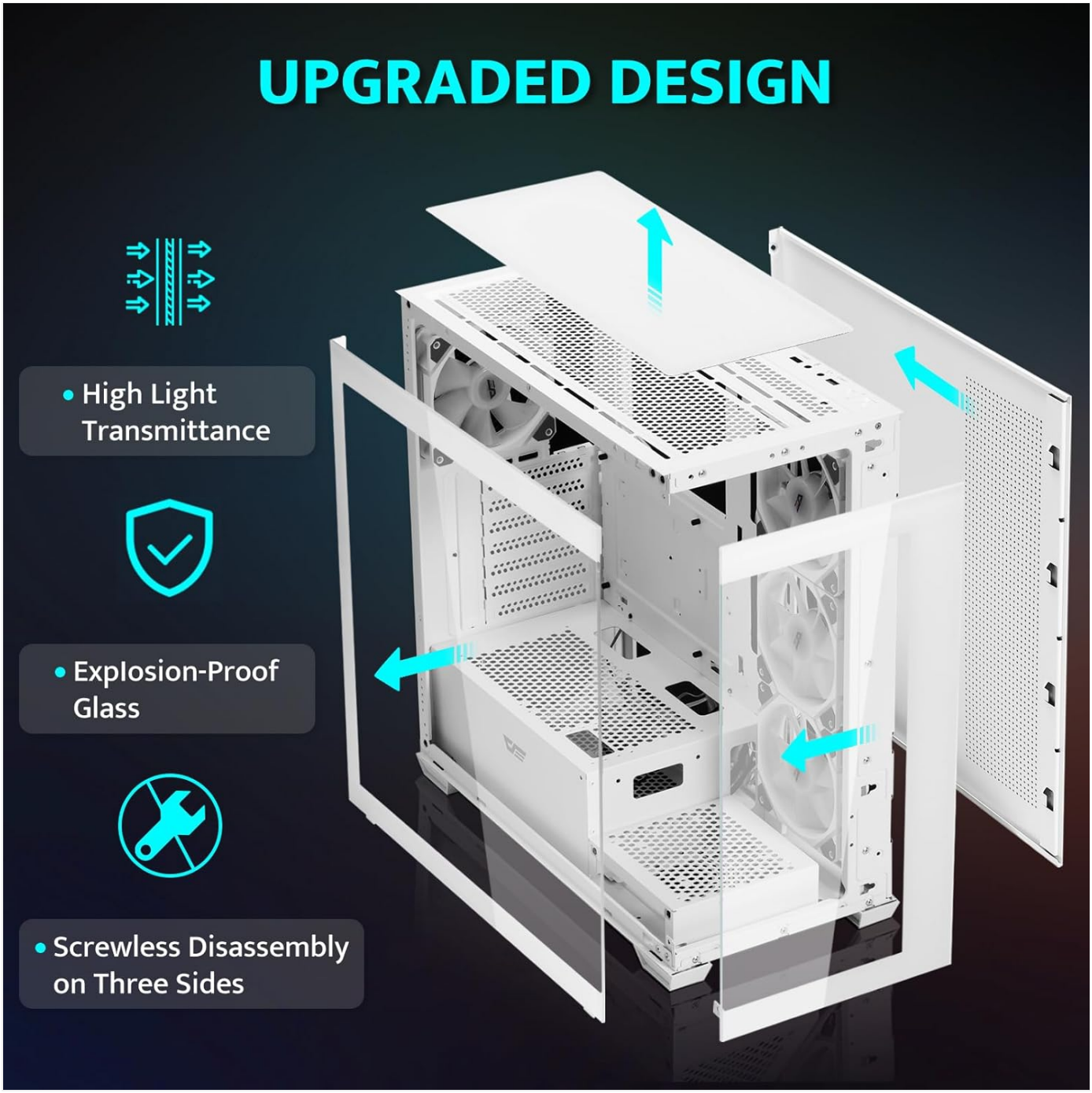

Figure 2.1: Exploded view illustrating the upgraded design with high light transmittance, explosion-proof glass, and screwless disassembly on three sides.

Figure 2.2: The ARGB fans offer all-inclusive compatibility for light color synchronization with major motherboard RGB systems.

3. Setup and Installation

3.1 Component Compatibility

The DS900 case supports a wide range of components. Please refer to the diagram below for maximum component dimensions and fan/radiator placements.

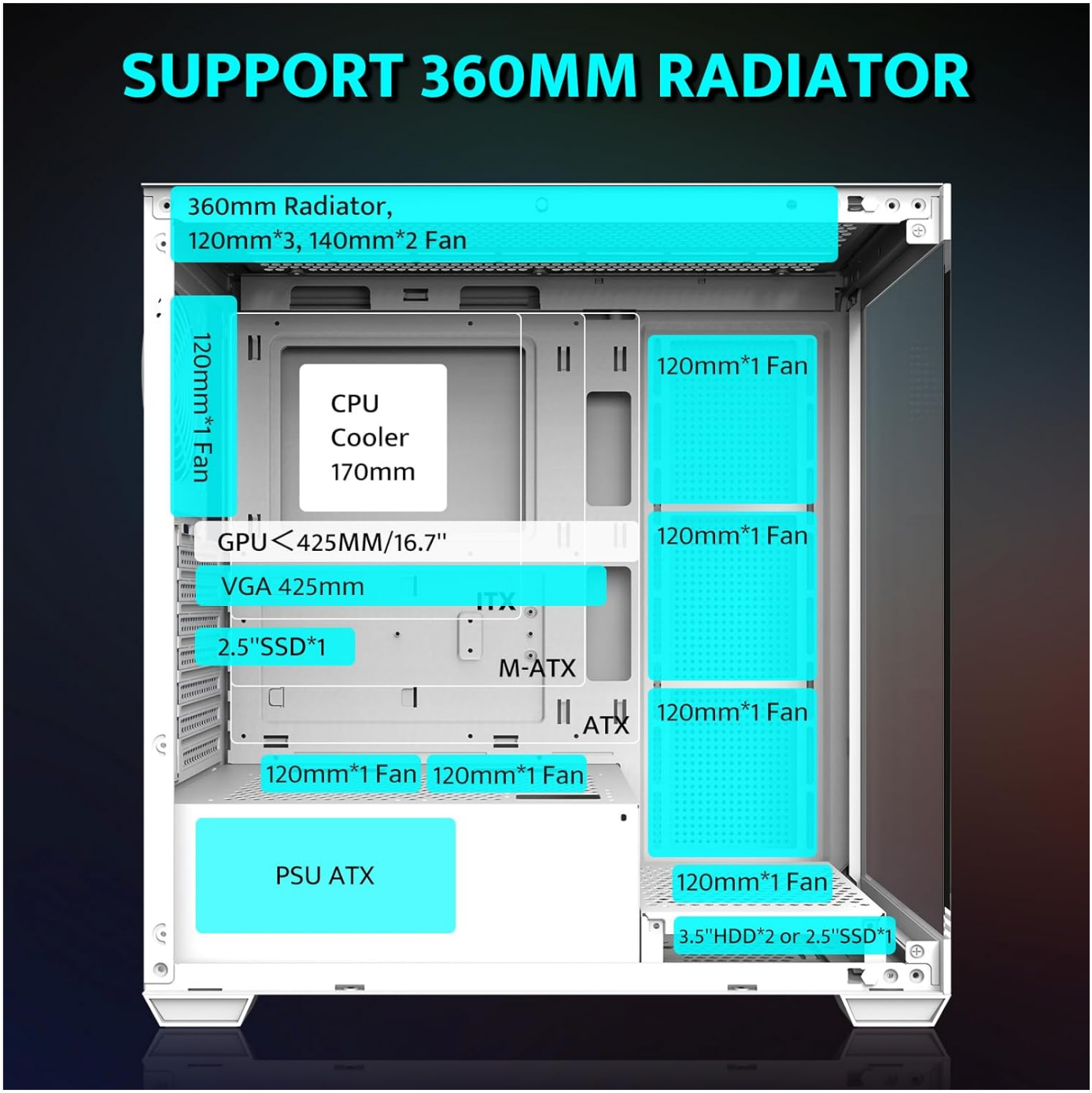

Figure 3.1: Internal layout indicating support for 360mm radiators, CPU coolers up to 170mm, GPUs up to 425mm, and various storage drives (2.5" SSD, 3.5" HDD).

3.2 Fan Installation and Airflow

The case comes with four 120mm ARGB fans pre-installed. Additional fans can be added for optimized airflow. The magnetic fan mounting system simplifies installation.

Figure 3.2: Illustration of the included 4 x 120mm ARGB fans, with 3 fans typically mounted on the side and 1 fan in the rear. Note: RGB Hub Controller is not included.

Figure 3.3: High-airflow performance is achieved through 4 dedicated airflow channels, supporting efficient cooling and radiator integration.

The newly designed magnetic suction fans feature magnets and metal contacts on the side, reducing the need for extensive wire connections and simplifying fan installation and cable management.

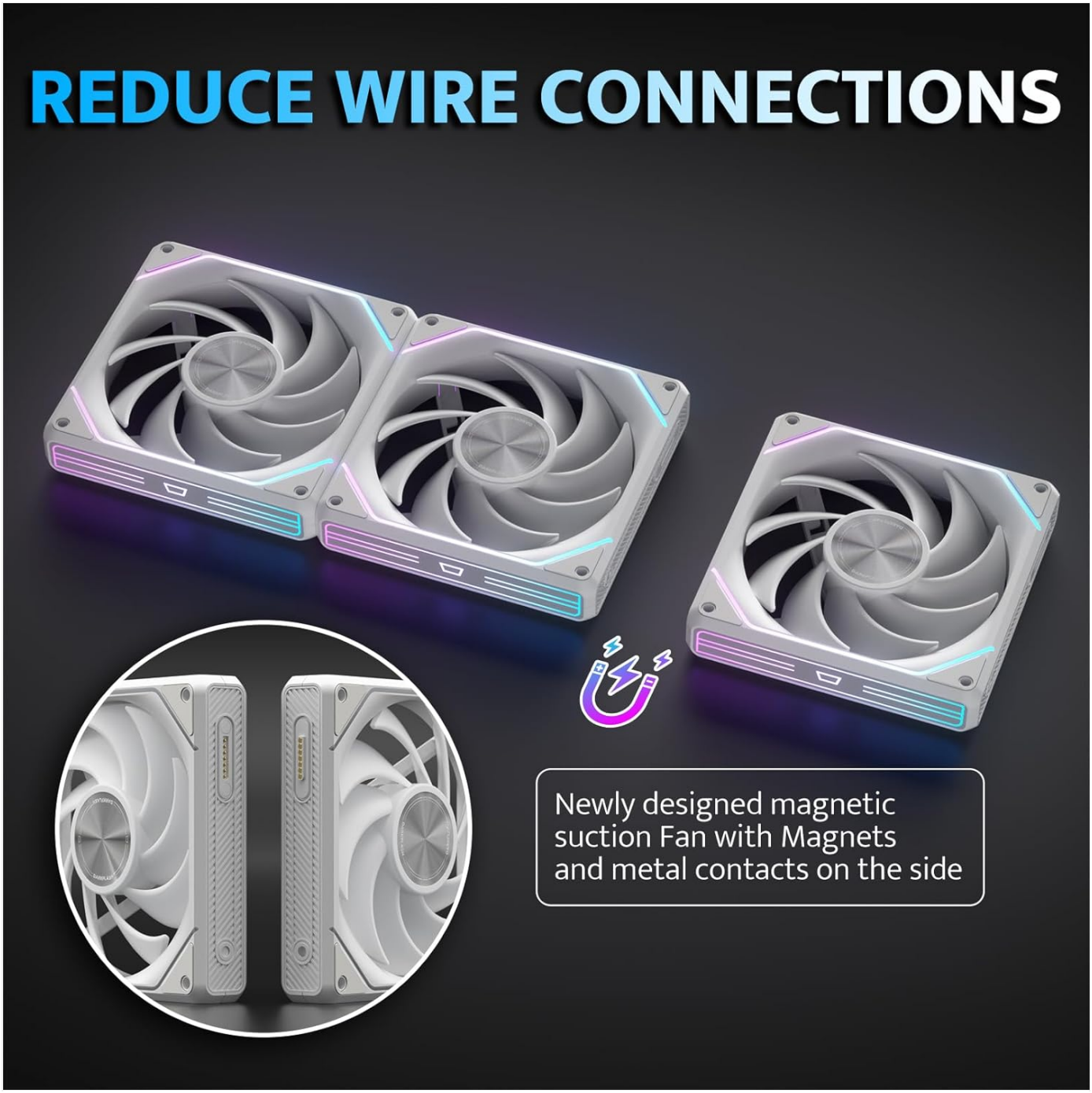

Figure 3.4: Magnetic suction fans designed to reduce wire connections, featuring magnets and metal contacts for streamlined setup.

4. Operating Instructions

4.1 ARGB Lighting Synchronization

The G24 PC Fans support ARGB lighting synchronization with compatible motherboards. Connect the ARGB cables from the fans to your motherboard's 3-pin 5V ARGB header. Use your motherboard's software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, ASRock Polychrome Sync) to customize lighting effects and colors.

4.2 Fan Speed Control (PWM)

The PWM (Pulse Width Modulation) fans allow for dynamic speed control based on system temperature. Connect the fan PWM cables to your motherboard's 4-pin fan headers. Fan speed can be managed through your motherboard's BIOS settings or dedicated fan control software.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your PC case and components.

- **Dust Filter Cleaning:** The DS900 features a magnetic top dust filter and other panel filters. Periodically remove and clean these filters to prevent dust buildup inside the case, which can impede airflow and component cooling. Use compressed air or a soft brush.
- **Case Cleaning:** Wipe down the exterior and tempered glass panels with a soft, lint-free cloth. For stubborn smudges on glass, a mild glass cleaner can be used, applied to the cloth first, not directly to the glass.
- **Fan Cleaning:** Gently clean fan blades with compressed air or a soft brush to remove dust. Ensure fans are not spinning during cleaning.

6. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Fans not spinning or no RGB lighting.	Incorrect fan/RGB cable connection. No power to fan hub/controller (if used). Motherboard RGB header not enabled or software issue.	Verify all fan PWM and ARGB cables are securely connected to the motherboard or fan controller. Ensure the fan hub/controller is receiving power from the PSU. Check motherboard BIOS settings for fan control and RGB header activation. Reinstall or update motherboard RGB software.
Excessive dust buildup inside case.	Dust filters are dirty or missing. Negative air pressure setup without sufficient filtered intake.	Regularly clean all dust filters. Ensure proper airflow configuration with more filtered intake fans than exhaust fans, or balanced pressure.
High system temperatures.	Insufficient airflow. Fans not spinning at optimal speeds. Dust buildup on components/radiators.	Review fan placement and direction for optimal airflow (Figure 3.3). Adjust fan curves in BIOS or software to increase fan speeds under load. Clean dust from all internal components, heatsinks, and radiators.

7. Specifications

Detailed specifications for the darkFlash DS900 PC Case and included fans.

Feature	Detail
Brand	darkFlash
Model Name	DS900
Case Type	Tower
Motherboard Compatibility	ATX
Color	White
Cooling Method	Air
Included Fans	4 x 120mm PWM ARGB Fans (G16)
Max Fan Support	Up to 10 fans
Radiator Support	Up to 360mm

Feature	Detail
GPU Clearance	Up to 425mm (16.7 inches)
CPU Cooler Clearance	Up to 170mm
Fan Speed (G16)	≤2200 RPM
Fan Air Capacity (G16)	≤52.96 CFM
Fan Pressure (G16)	≤1.96 MMH2O
Noise Level (G24 Hydro-bearing fans)	33.5 dBA
USB 3.0 Ports	4

Figure 7.1: Detailed specifications for the G16 120mm ARGB & PWM fans, including fan speed, air capacity, and pressure.

Figure 7.2: Noise level comparison, highlighting the low noise operation of the darkFlash magnetic fans at approximately 33 dBA.

8. Warranty and Support

Specific warranty details are not provided in this manual. For warranty information, technical support, or further assistance, please contact darkFlash customer service or visit the official darkFlash website.
You can find more information and support resources on the darkFlash Amazon Store:darkFlash Store.

9. Video Resources

No official product videos from the seller were available in the provided data. Please check the darkFlash official website or their Amazon store for any available video guides or demonstrations.

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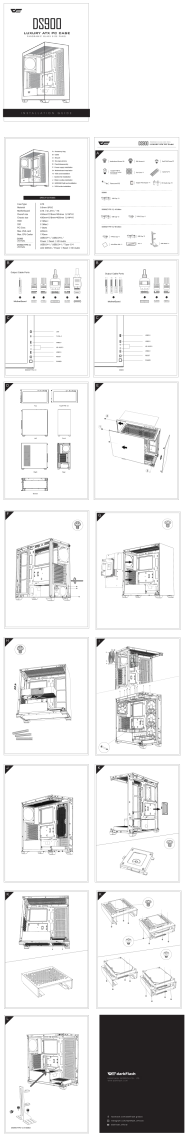
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - DS900

	darkFlash GAUSS SERIES Magnetic Splicing Cooling Fan - Specifications and Guide Detailed information on the darkFlash GAUSS SERIES Magnetic Splicing Cooling Fan, including specifications, accessory contents, and connection instructions. Features 120mm size, hydraulic bearing, and ARGB lighting.

[DS900 Luxury ATX PC Case Installation Guide]

Comprehensive installation guide for the DS900 Luxury ATX PC Case by darkFlash, detailing component installation, features, and specifications.



[darkFlash DS900 Luxury ATX PC Case Installation Guide]
Detailed installation guide for the darkFlash DS900 Luxury ATX PC Case, featuring a panoramic glass side panel. Learn how to assemble your PC with this comprehensive manual.

[DarkFlash DLC 29 Full Mesh Luxury PC Chassis Installation Guide]
Comprehensive installation guide for the DarkFlash DLC 29 Full Mesh Luxury PC Chassis, detailing specifications, parts, and step-by-step assembly instructions for PC builders.

[darkFlash DS500 Luxury ATX Chassis - Specifications and Installation Guide]
Detailed specifications, clearances, and installation guide for the darkFlash DS500 Luxury ATX Chassis with Tempered Glass and Panoramic Glass. Includes accessory list, component compatibility, and mounting instructions.

[darkFlash DS500M Luxury M-ATX Chassis - Tempered Glass Computer Case Manual]
Detailed specifications, accessory list, and installation guide for the darkFlash DS500M M-ATX computer chassis featuring tempered glass and panoramic design.