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› [darkFlash DR12 Pro Addressable RGB Case Fans Instruction Manual](#)

## darkFlash DR12 Pro

# darkFlash DR12 Pro Addressable RGB Case Fans Instruction Manual

Model: DR12 Pro

Brand: darkFlash

## 1. PRODUCT OVERVIEW

The darkFlash DR12 Pro Addressable RGB Case Fans are designed to provide efficient cooling and vibrant lighting for your computer system. This kit includes 120mm fans with addressable RGB LEDs, a control hub, and a remote controller, offering extensive customization options for lighting effects and fan speed. The fans are compatible with ASUS Aura Sync and other motherboard RGB synchronization technologies via a 5V ARGB header.



Image 1.1: The darkFlash DR12 Pro fan kit, including three fans, the control hub, and the RF wireless remote controller.

## 2. PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all components are present:

- 3 x darkFlash DR12 Pro 120mm ARGB Case Fans
- 1 x Control Hub
- 1 x RF Wireless Remote Controller
- 1 x 5V RGB Cable (for motherboard synchronization)
- 1 x LED Cable (specifically for Gigabyte VDG ports)
- Mounting Screws

## 3. PRODUCT FEATURES

- **Addressable RGB Lighting:** Each fan features vibrant, customizable ARGB lighting with multiple effects.

- **Motherboard Sync:** Compatible with ASUS Aura Sync and other 5V ARGB headers for synchronized lighting across your system.
- **Quiet Operation:** Engineered for low noise levels, approximately 16 dBA.
- **High Performance:** Provides effective airflow for optimal system cooling.
- **Speed Control:** Adjust fan speed via the remote controller or motherboard software.
- **Dual-Sided Lighting:** LEDs are present on both sides of the fan, ensuring aesthetic appeal regardless of mounting orientation.
- **Anti-Vibration Pads:** Rubber pads on fan corners reduce operational noise and vibration.
- **Centralized Control:** The included control hub supports up to 8 fans and 2 LED strips.



Image 3.1: Detail view of the fans and control hub, highlighting the RGB rings.

## 4. SETUP AND INSTALLATION

Follow these steps to properly install your darkFlash DR12 Pro fans:

## 4.1 Fan Installation

1. Identify desired mounting locations within your PC case (e.g., front, top, rear).
2. Secure each fan to the case using the provided mounting screws. Ensure the airflow direction is as desired (typically intake from front/bottom, exhaust from rear/top).



Image 4.1: A single darkFlash DR12 Pro fan, showing its design and mounting points.

## 4.2 Control Hub Connection

1. Connect each fan's proprietary cable to the numbered FAN ports (1-8) on the control hub.
2. Connect the control hub to your power supply unit (PSU) using the 4-pin power connector.
3. **Optional:** For motherboard RGB synchronization, connect the 5V RGB cable from the control hub to your motherboard's 5V ADD\_HEADER or Digital LED Pin Header (VDG).
4. **Important Note for Gigabyte Motherboards:** If you have a Gigabyte motherboard, use the dedicated LED cable to connect the control hub to the VDG port. Connecting the LED cable to other ports may short circuit your motherboard.
5. The control hub can be mounted inside your case using the adhesive loop fasteners on its back.

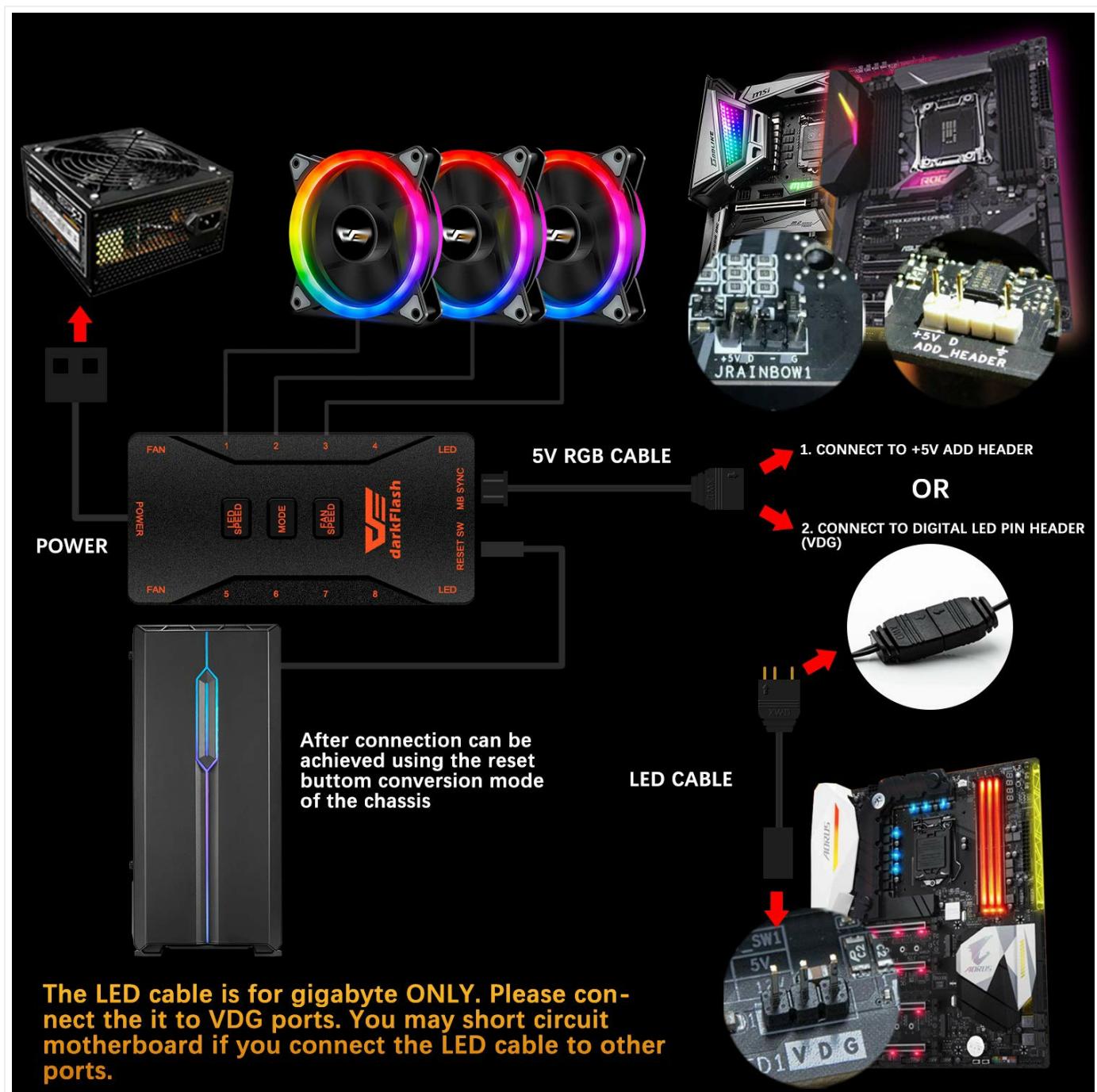


Image 4.2: Detailed connection diagram showing fans, control hub, power supply, and motherboard RGB headers.

# Controller Connection

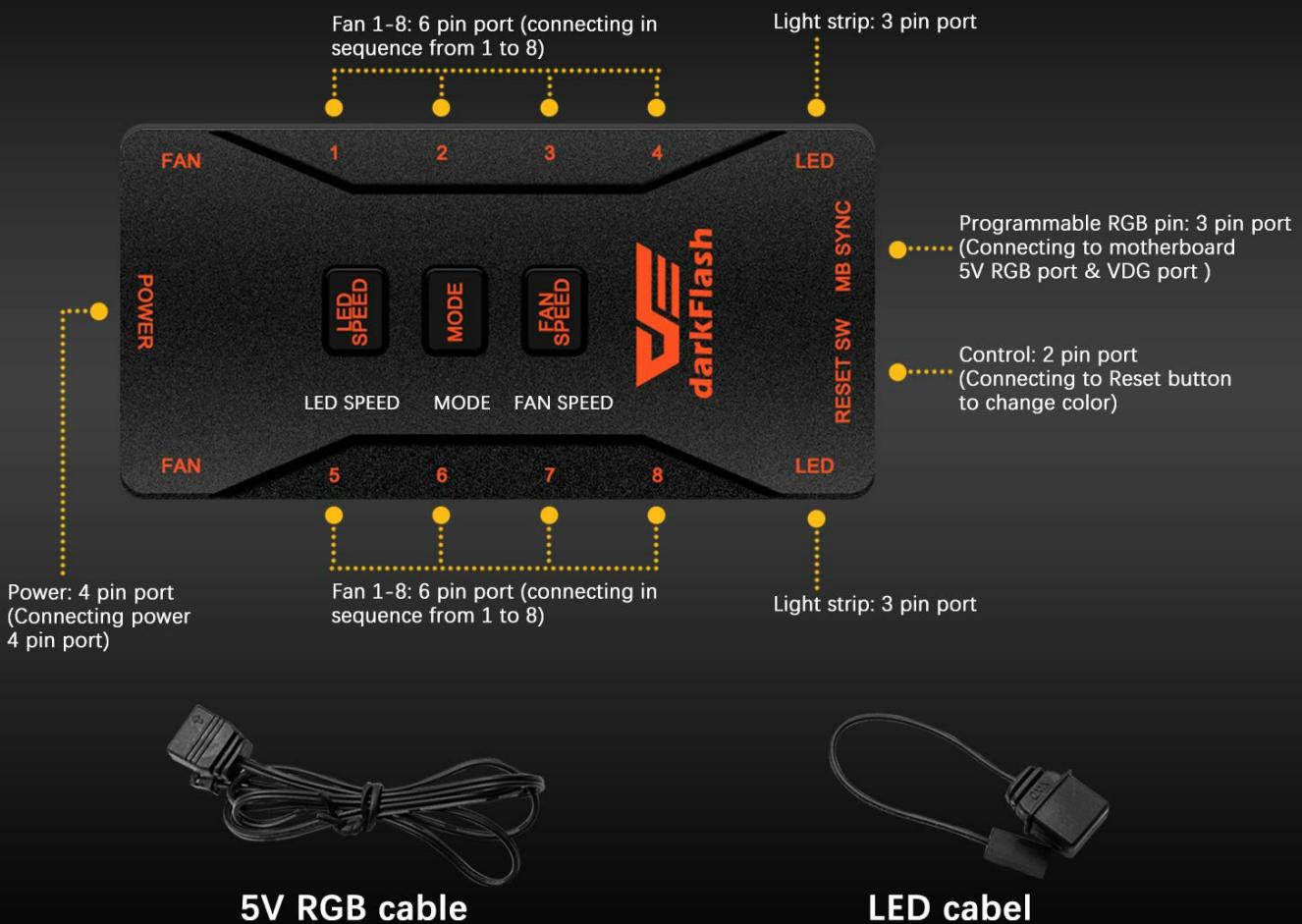


Image 4.3: Close-up of the control hub's ports and the included 5V RGB and LED cables.



Image 4.4: Dimensions of the DR12 Pro fan and control hub, along with the adhesive backing for the hub.

## 5. OPERATING INSTRUCTIONS

The darkFlash DR12 Pro fans can be controlled using the included RF wireless remote controller or via motherboard software if connected to a compatible ARGB header.

### 5.1 Remote Controller Functions

The remote allows for direct control over lighting modes, LED speed, and fan speed.

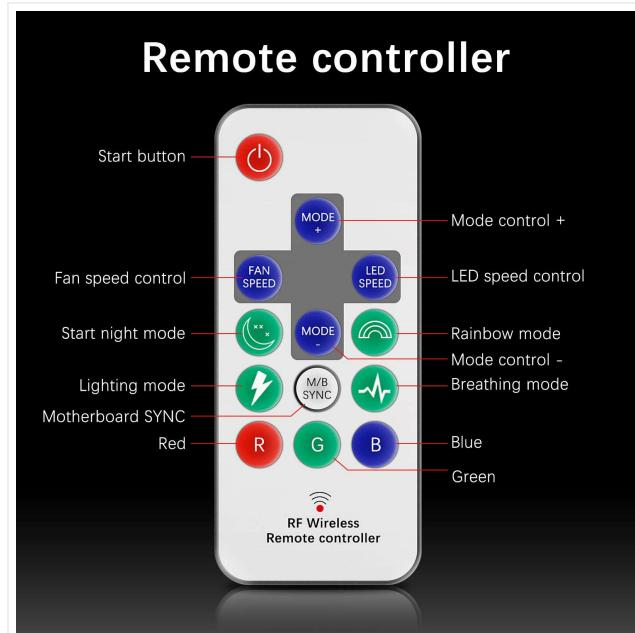


Image 5.1: Diagram of the RF Wireless Remote Controller with button descriptions.

### Remote Control Button Functions

| Button                              | Function  |
|-------------------------------------|---|
| Power Button                        | Turns lighting On/Off.  |
| MODE + / MODE -                     | Cycles through various lighting modes.  |
| LED SPEED + / LED SPEED -           | Adjusts the speed of the lighting effects.                                      |
| FAN SPEED + / FAN SPEED -           | Adjusts the fan rotation speed.   |
| M/B SYNC                            | Switches between remote control and motherboard synchronization (if connected). |
| R, G, B Buttons                     | Selects static Red, Green, or Blue color.                                       |
| Rainbow Mode                        | Activates rainbow lighting effect.  |
| Breathing Mode                      | Activates breathing lighting effect.  |
| Start Night Mode                    | Activates a low-brightness mode suitable for night.                             |
| Lighting Mode (Lightning Bolt icon) | Activates a specific dynamic lighting mode.                                     |



Image 5.2: Examples of different lighting modes achievable with the DR12 Pro fans.

## 5.2 Motherboard Synchronization

If the 5V RGB cable is connected to a compatible motherboard header, you can control the fan lighting through your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion). Press the "M/B SYNC" button on the remote to switch control to the motherboard software. Ensure your motherboard's software is up-to-date for best compatibility.

## 6. MAINTENANCE

- **Cleaning:** Periodically clean the fan blades and frame to prevent dust buildup, which can reduce cooling efficiency and increase noise. Use compressed air or a soft, dry cloth. Ensure the PC is powered off and unplugged before cleaning.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent interference with fan blades or other components.
- **Inspection:** Regularly check fan mounting screws for tightness and ensure no cables are obstructing fan rotation.

## 7. TROUBLESHOOTING

### Common Issues and Solutions

| Issue                             | Possible Cause  | Solution  |
|-----------------------------------|---|---|
| Fans not spinning.                | No power to control hub; loose connection; faulty fan.                    | <ul style="list-style-type: none"><li>Ensure the 4-pin power connector from the control hub is securely connected to the PSU.</li><li>Check all fan connections to the control hub.</li><li>Test individual fans if possible.</li></ul>   |
| RGB lighting not working.         | Loose ARGB cable; remote not paired; motherboard sync active; faulty LED. | <ul style="list-style-type: none"><li>Ensure the 5V RGB cable is securely connected to the motherboard (if using sync) or that the remote is functioning.</li><li>Press the "M/B SYNC" button on the remote to toggle between remote and motherboard control.</li><li>Verify the correct ARGB header (5V, 3-pin) is used, not a 12V RGB header.</li></ul> |
| Fans are noisy.                   | Dust buildup; loose mounting; high fan speed; cable obstruction.          | <ul style="list-style-type: none"><li>Clean fan blades and grilles.</li><li>Ensure fans are securely mounted with anti-vibration pads.</li><li>Reduce fan speed using the remote or motherboard software.</li><li>Check for any cables or objects obstructing fan rotation.</li></ul>   |
| Remote controller not responding. | Battery low/dead; obstruction; out of range.                              | <ul style="list-style-type: none"><li>Replace the remote control battery.</li><li>Ensure no physical obstructions between the remote and the control hub.</li><li>Operate the remote within close proximity to the control hub.</li></ul>   |

## 8. SPECIFICATIONS

| Feature                | Detail  |
|------------------------|---|
| Model Number           | DR12 Pro (8541605736)                                     |
| Fan Dimensions         | 125mm x 125mm x 125mm (approx. 4.92 x 4.92 x 4.92 inches) |
| Control Hub Dimensions | 94mm x 47mm x 15mm (approx. 3.7 x 1.85 x 0.59 inches)     |
| Fan Speed              | Up to 1300 RPM  |
| Air Flow Capacity      | 20.34 CFM (Cubic Feet Per Minute)                         |
| Noise Level            | 16 dBA  |
| Power Connector Type   | 4-Pin (for control hub)                                   |
| Voltage                | 12 Volts (DC)   |
| Wattage                | 1.92 watts  |

| Feature        | Detail   |
|----------------|--|
| Cooling Method | Air  |
| Material       | Rubber (anti-vibration pads)   |
| Compatibility  | Motherboards with 5V Addressable RGB (3-pin) header (e.g., ASUS Aura Sync) |

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the darkFlash official website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

**Website:** [www.darkflash.com](http://www.darkflash.com)

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