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RunCam RC25G

RunCam RC25G FPV Lens User Manual

Model: RC25G

Brand: **RunCam**

[Visit RunCam Store](#)

1. INTRODUCTION

The RunCam RC25G is a high-quality 2.5mm wide-angle FPV lens designed as a replacement or upgrade for various FPV cameras. It offers an expanded field of view (FOV) for an immersive flight experience, making it suitable for drone racing, freestyle FPV, and other aerial applications. This manual provides essential information for the proper installation, operation, and maintenance of your RC25G lens.



Image 1.1: Front view of the RunCam RC25G FPV Lens, showcasing its wide-angle design and RunCam branding.

2. PRODUCT FEATURES

- **Original RunCam Lens:** Ensures compatibility and performance with specified RunCam camera models.
- **Wide Angle Field of View (FOV):** Offers an expansive view, with FOV varying by camera model, potentially up to 170 degrees.
- **Quality Construction:** Manufactured with fine workmanship and attention to detail for reliable performance.

3. COMPATIBILITY

The RunCam RC25G lens is compatible with a range of FPV cameras, including:

- RunCam Swift Series (e.g., Swift, Swift2)
- RunCam Eagle 4:3 Series
- RunCam Split Series (e.g., Split 1/2, Split2)
- Mini Gopro Hero2
- RunCam Phoenix 2 (requires careful focusing adjustment)
- RunCam 4K

*Note: Compatibility may vary. Always verify the lens mount (M12*P0.5) and physical dimensions against your camera model before installation.*

4. SPECIFICATIONS



Image 4.1: Dimensional drawing of the RunCam RC25G FPV Lens, showing its 17mm diameter and 19mm length.

Specification	Value
Model Number	RC25G
Focal Length	2.5 mm
Aperture (F)	2.0
Lens Type	Wide Angle, Prime Lens
Mount	M12*P0.5
Field of View (FOV)	Varies by camera model (up to 170 degrees)
Item Weight	2.08 ounces (approx. 59g)
Package Dimensions	1.65 x 1.57 x 1.06 inches

5. SETUP AND INSTALLATION

Follow these steps to install the RC25G lens onto your compatible FPV camera:

- Preparation:** Ensure your camera is powered off and disconnected from any power source. Work in a clean, dust-free environment.
- Remove Existing Lens:** Carefully unscrew the existing lens from your camera. Some cameras may have a locking ring that needs to be loosened first. Keep the old lens in a safe place.
- Install RC25G Lens:** Gently screw the RC25G lens into the camera's lens mount (M12*P0.5 threading). Be careful not to cross-thread.
- Initial Focus Adjustment:** Screw the lens in until it is nearly seated. Power on your camera and connect it to a monitor or FPV goggles. Adjust the lens by slowly rotating it clockwise or counter-clockwise until the image on your screen is clear and in focus.
- Secure Lens:** Once focus is achieved, carefully tighten the locking nut (if present on your camera) against the lens to secure its position. If your camera does not have a locking nut, ensure the lens is snug but do not overtighten.
- Check for Obstructions:** Some camera models or lens protectors may cause a dark circle or vignetting with a wider lens like the RC25G. If this occurs, you may need to remove the lens protector or adjust its position.



Image 5.1: Rear view of the RunCam RC25G FPV Lens, showing the threaded mount and internal components.

6. OPERATION

Once installed, the RunCam RC25G lens operates passively with your FPV camera. Its primary function is to provide a wide-angle field of view. The main operational aspect is ensuring proper focus during installation. No further adjustments are typically required during flight.

- **Focus:** The lens is manually focused during installation. If your image appears blurry, re-adjust the lens by rotating it slightly until clarity is achieved.
- **Field of View:** The wide-angle design will capture a broader scene, which is beneficial for situational awareness in FPV flying.

7. MAINTENANCE

Proper care will extend the lifespan and maintain the performance of your RC25G lens:

- **Cleaning:** Use a soft, lint-free microfiber cloth specifically designed for optics to clean the lens surface. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the lens). Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the lens in a protective case or with a lens cap to prevent dust accumulation and scratches.
- **Handling:** Avoid touching the lens glass directly with your fingers, as oils can leave smudges.
- **Environmental Protection:** Protect the lens from extreme temperatures, humidity, and direct impact.

8. TROUBLESHOOTING

If you encounter issues with your RC25G lens, consider the following:

- **Blurry Image:** This is typically a focus issue. Re-adjust the lens by rotating it slightly while observing the camera feed until the image becomes sharp. Ensure the locking nut is not overtightened before adjustment.
- **Dark Corners / Vignetting:** This can occur if the lens is too long for the camera housing or if a lens protector is obstructing the view. Try removing any lens protectors or ensuring the lens is not screwed in too far, if possible, while maintaining focus.
- **Lens Not Screwing In:** Check the threading of both the lens and the camera mount. Ensure they are clean and free of debris. Do not force the lens, as this can damage the threads. Verify compatibility.
- **Image Quality Issues (beyond focus):** If the image has distortions or artifacts not related to focus, ensure the lens surface is clean and free from scratches or damage.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance with your RunCam RC25G FPV Lens, please refer to the official RunCam website or contact their customer service directly.

You can also visit the official RunCam store on Amazon for product details and support resources:

[Visit RunCam Store](#)



Image 9.1: RunCam brand image, representing the spirit of FPV and outdoor adventure.

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This manual is for informational purposes only. RunCam reserves the right to make changes to product specifications without prior notice.