K&F Concept KF-150

K&F Concept KF-150 Macro E-TTL Ring Flash Light User Manual

Model: KF-150

1. Introduction

The K&F Concept KF-150 Macro E-TTL Ring Flash Light is a specialized lighting solution designed for close-up and macro photography with Canon DSLR cameras. It offers precise and even illumination, crucial for capturing intricate details in subjects such as insects, flowers, or dental work. This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your KF-150 ring flash.

Key features include a fast 2.9-second recycle time, E-TTL automatic flash mode, manual flash control, multi-flash mode for creative effects, and an integrated LCD display with backlight for clear visibility in various lighting conditions. The dual flash tubes (Flash A and Flash B) can be adjusted independently or together, allowing for flexible lighting ratios and precise exposure control.

2. Product Overview and Components

Familiarize yourself with the main components of your K&F Concept KF-150 Macro E-TTL Ring Flash Light.



Figure 2.1: K&F Concept KF-150 Macro E-TTL Ring Flash Light and control unit.

The KF-150 system consists of two primary parts: the flash control unit and the ring flash head, connected by a coiled cable. The kit also includes various adapter rings for lens compatibility and a protective carrying bag.

2.1 Flash Control Unit



Figure 2.2: Flash Control Unit with labeled components.

- **LCD Display:** Shows current settings, flash mode, power levels, and battery status.
- **Test/Charging Indicator:** Illuminates when the flash is ready to fire.
- **Flash Button/Charge Lamp:** Triggers a test flash and indicates charging status.
- **MODE Button:** Cycles through flash modes (TTL, Manual, Multi).
- **Adjustment Button:** Navigates menus and adjusts settings.
- **ON/OFF Button:** Powers the unit on or off.
- **High-Speed/Back Screen Shift Button:** For specific functions and LCD backlight control.
- **RATIO Button:** Adjusts the flash ratio between Flash A and Flash B.
- **Locking Ring:** Secures the control unit to the camera's hot shoe.
- **Hot Shoe Stand:** Base for mounting the unit to the camera.
- **PC Synchronous Port:** For wired synchronization with cameras or triggers.

2.2 Ring Flash Head

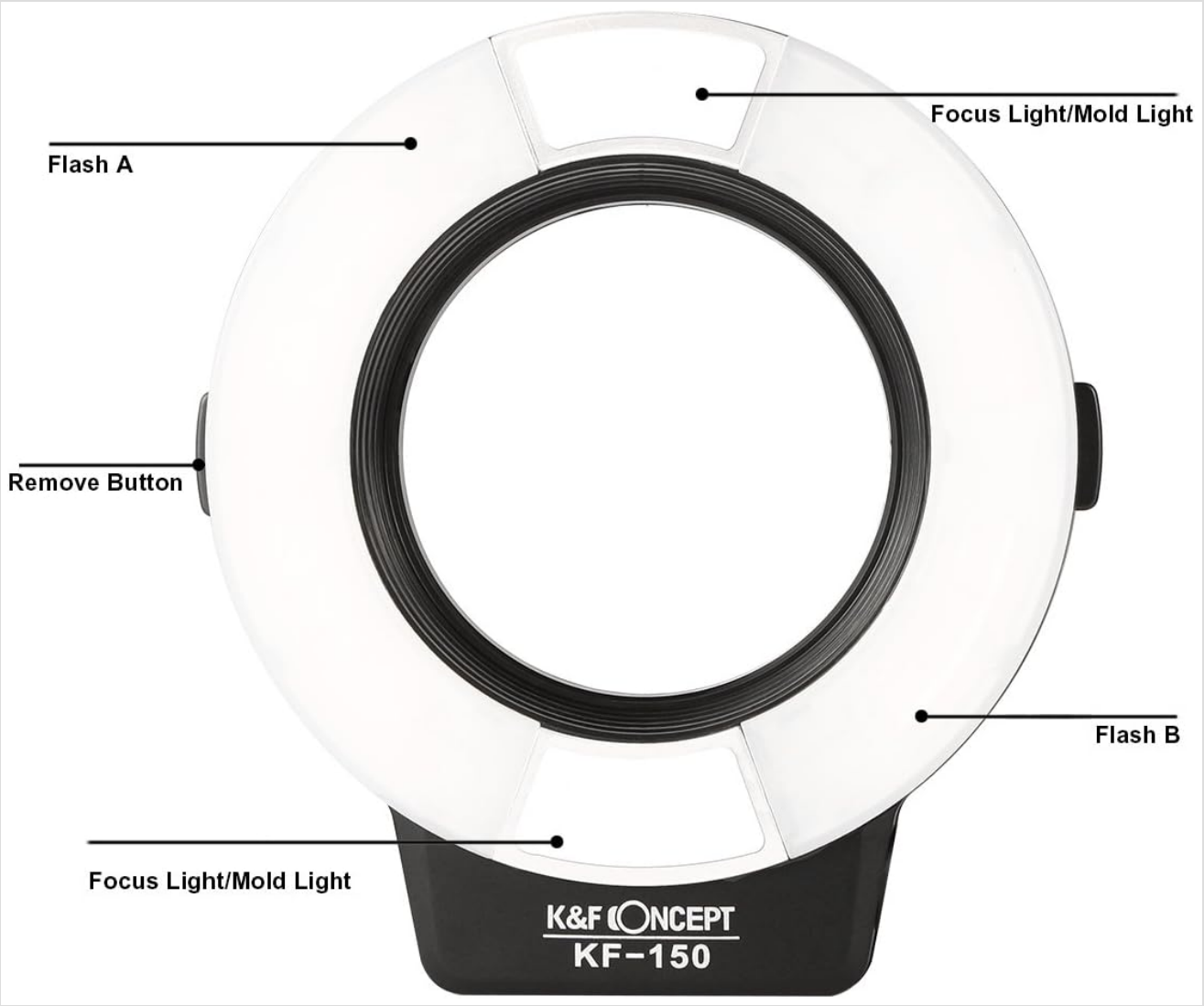


Figure 2.3: Ring Flash Head with labeled components.

- **Flash A & Flash B:** Independent flash tubes for adjustable lighting.
- **Focus Light/Mold Light:** Provides continuous light for focusing and previewing lighting effects.
- **Remove Button:** Releases the ring flash head from the adapter ring.

2.3 Included Accessories

- **Adapter Rings:** Various sizes (e.g., 52mm, 55mm, 58mm, 62mm, 67mm, 77mm) for mounting the ring flash to different lens filter threads.
- **Protect Bag:** For safe storage and transport.
- **Mini Stand:** Allows the flash control unit to stand independently.
- **White Soft Diffuser:** To soften and spread the flash light.

3. Setup

Follow these steps to prepare your KF-150 ring flash for use.

3.1 Battery Installation

1. Locate the battery compartment on the flash control unit.
2. Open the battery compartment cover.
3. Insert four (4) AA-size batteries, ensuring correct polarity (+/-).

4. Close the battery compartment cover securely.

3.2 Mounting the Flash Control Unit to the Camera

1. Slide the hot shoe stand of the flash control unit into your Canon DSLR camera's hot shoe.
2. Tighten the locking ring on the flash control unit to secure it firmly to the camera.

3.3 Attaching the Ring Flash Head to the Lens



Figure 3.1: Ring flash head with various adapter rings.

1. Determine the filter thread size of your camera lens.
2. Select the appropriate adapter ring from the included set (e.g., 52mm, 55mm, 58mm, 62mm, 67mm, 77mm).
3. Screw the chosen adapter ring onto the front filter thread of your lens.
4. Align the ring flash head with the adapter ring and gently push it until it clicks into place. Ensure it is securely attached.



Figure 3.2: KF-150 mounted on a camera.

4. Operating Modes

The KF-150 offers multiple flash modes to suit various photographic needs.

4.1 Power On/Off

Press and hold the **ON/OFF** button on the flash control unit to power the device on or off. The LCD display will illuminate upon power-on.

4.2 TTL Auto Flash Mode

In TTL (Through-The-Lens) mode, the flash automatically determines the appropriate light output based on the camera's metering system. This provides convenient and accurate exposure for most situations.

1. Press the **MODE** button until 'TTL' is displayed on the LCD.
2. The flash will automatically adjust its output. You can use your camera's flash exposure compensation (FEC) if further adjustment is needed.



Figure 4.1: LCD display in TTL mode.

4.3 Manual Flash Mode (M)

Manual mode allows you to precisely control the flash power output, offering creative flexibility.

1. Press the **MODE** button until 'M' (Manual) is displayed on the LCD.
2. Use the **Adjustment Button** to increase or decrease the flash power output (e.g., from 1/1 to 1/128).

4.4 Multi Flash Mode

Multi-flash mode, also known as stroboscopic flash, fires a series of rapid flashes during a single exposure, ideal for capturing multiple stages of a moving object.

1. Press the **MODE** button until 'Multi' is displayed on the LCD.
2. Adjust the flash frequency (Hz) and the number of flashes using the**Adjustment Button**.



Figure 4.2: LCD display in Multi mode with A/B flash ratio illustration.

4.5 Flash A and Flash B Control

The KF-150 allows independent control over the left (Flash A) and right (Flash B) flash tubes, enabling precise lighting ratios.

1. In TTL or Manual mode, press the **RATIO** button to cycle through options: both A and B flashes, Flash A only, or Flash B only.
2. When both A and B are active, use the **Adjustment Button** to set the power ratio between them.

4.6 LED Assist Lamp

The integrated LED assist lamp provides continuous light for easier focusing in low-light conditions and can also serve as a modeling light to preview lighting effects.

- Press the **LAMP** button on the control unit to turn the LED assist lamp on or off.

5. Maintenance

Proper care and maintenance will extend the lifespan of your KF-150 ring flash.

- **Cleaning:** Use a soft, dry cloth to clean the flash unit and ring. For stubborn dirt, a slightly damp cloth can be used, followed by immediate drying. Avoid harsh chemicals or abrasive materials.

- **Battery Care:** Remove batteries when the flash is not in use for extended periods to prevent leakage. Use high-quality AA batteries for optimal performance.
- **Storage:** Store the flash in its protective bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Overheat Protection:** The KF-150 features an overheat protection system. If the flash is fired rapidly in succession, it may temporarily cease operation to prevent damage. Allow it to cool down before resuming use.

6. Troubleshooting

Refer to this section for solutions to common issues.

- **Flash Not Firing:**
  - Ensure batteries are correctly installed and have sufficient charge.
  - Check if the flash control unit is securely mounted to the camera's hot shoe and the locking ring is tightened.
  - Verify that the flash is powered on and the charging indicator shows it is ready.
  - Confirm camera settings are compatible with external flash (e.g., not in silent shooting mode).
- **Incorrect Exposure (Too Bright/Dark):**
  - In TTL mode, adjust flash exposure compensation on your camera.
  - In Manual mode, adjust the flash power output directly on the KF-150 control unit.
  - Check the distance to your subject; the guide number (GN 14) indicates its effective range.
- **Flash Light Appears Yellowish:**
  - This can sometimes be due to white balance settings on your camera. Adjust the camera's white balance to 'Flash' or a custom setting to correct color cast.
  - Ensure no colored gels or diffusers are inadvertently used.
- **Ring Flash Head Not Attaching Securely to Lens:**
  - Ensure you are using the correct adapter ring size for your lens filter thread.
  - Verify the adapter ring is fully screwed onto the lens.
  - Make sure the ring flash head is aligned correctly and pushed firmly until it clicks into place.

7. Specifications

Feature	Specification
Model Number	KF22.005 (KF-150)
Guide Number (GN)	14 (ISO 100, both flash tubes firing)
Recycle Time	Approximately 2.9 seconds
Flash Modes	E-TTL, Manual (M), Multi
Flash Sync Speed	1/250 or 1/200 (depending on camera model)
Wireless Communication Technology	Optical Pulse

Feature	Specification
Compatible Mountings	Canon DSLR cameras
Power Source	4 x AA batteries
Included Components	Protect bag, Mini stand, White soft diffuser, Adapter rings (52mm, 55mm, 58mm, 62mm, 67mm, 77mm)
Dimensions (Parcel)	18.7 x 15.5 x 13.4 cm
Weight (Parcel)	249.48 g

8. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your product packaging or visit the official K&F Concept website. You may also contact the seller directly for assistance.
Visit the official K&F Concept Store: K&F Concept Store

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Submit question

Answered questions about this manual

Is the K&F Concept KF-150 Macro Ring Flash compatible with Canon DSLR cameras that lack a center hot shoe pin, such as the Canon EOS Rebel T100?

The K&F Concept KF-150 is designed specifically for Canon E-TTL systems. However, there is a significant

compatibility issue with certain newer entry-level Canon cameras, including the Canon EOS Rebel T100 (4000D), T7 (2000D), and...

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