

## Meike MK-14EXT-C

# Meike MK-14EXT-C E-TTL Macro LED Ring Flash User Manual

Model: MK-14EXT-C

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## 1. INTRODUCTION

The Meike MK-14EXT-C E-TTL Macro LED Ring Flash is a specialized lighting accessory designed for close-up and macro photography. It provides consistent and adjustable illumination, crucial for capturing intricate details in small subjects. This ring flash is compatible with Canon EOS DSLR cameras and supports E-TTL automatic flash control, as well as various manual and multi-flash modes. It also features an integrated LED AF assist lamp to aid in focusing in low-light conditions.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your MK-14EXT-C ring flash to ensure optimal performance and longevity.



*Image: The Meike MK-14EXT-C LED Macro Ring Flash unit, highlighting its Manual, TTL, and Multi operating modes.*

## 2. SAFETY INFORMATION

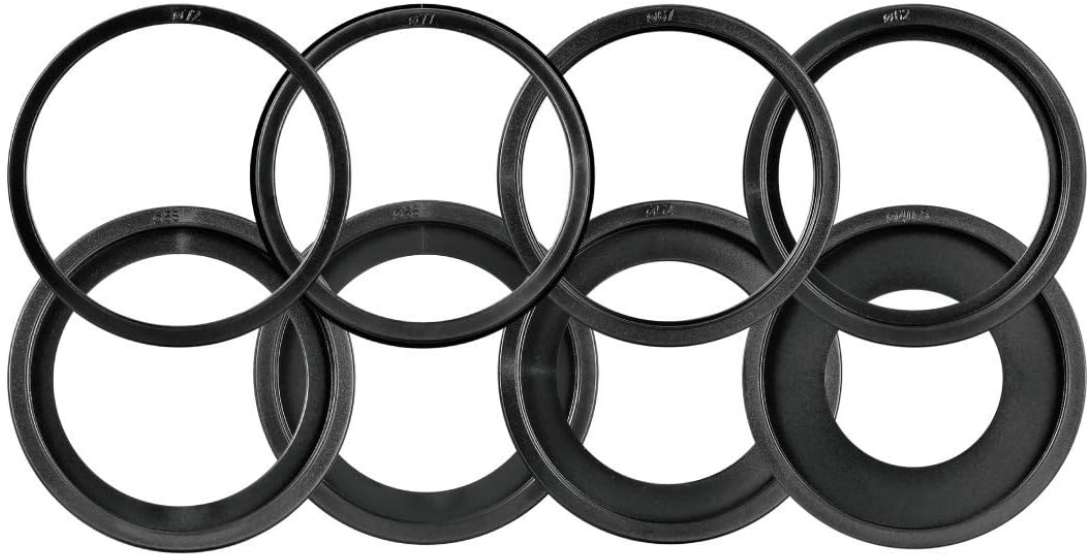
Please read and understand all safety precautions before using this product to prevent injury to yourself or others and damage to the device.

- **Battery Safety:** Use only specified AA/LR6 alkaline batteries. Do not mix old and new batteries, or different types of batteries. Remove batteries if the flash will not be used for an extended period.
- **Eye Protection:** Do not look directly into the flash when it fires, especially at close range, as it can cause temporary vision impairment.
- **Water and Moisture:** This product is not water-resistant. Do not expose it to rain, moisture, or high humidity.
- **Heat:** Avoid exposing the flash to direct sunlight or high temperatures.
- **Handling:** Handle the unit with care. Avoid dropping or subjecting it to strong impacts.
- **Disassembly:** Do not attempt to disassemble or repair the unit yourself. Refer all servicing to qualified personnel.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Meike MK-14EXT-C Control Unit
- Meike MK-14EXT-C Ring Flash Head
- Standard Hot Shoe Holder
- Adapter Rings (40.5mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm)
- Pouch
- Instruction Manual (this document)
- Warranty Card



## With the 8 connecting ring

The standard mount is 40.5mm and step up rings to 52mm,55mm,58mm,62mm, 67mm,72mm and 77mm are included,along with an adapter.

*Image: The eight included adapter rings (40.5mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm) for various lens sizes.*

### 4. PRODUCT OVERVIEW

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The Meike MK-14EXT-C consists of two main components: the control unit and the ring flash head. These components are connected by a coiled cable.

#### Control Unit

The control unit houses the batteries, control buttons, LCD display, and the hot shoe mount for attaching to your camera.

- **Hot Shoe Mount:** Connects the flash to the camera's hot shoe for communication and triggering.
- **LCD Display:** Shows current settings, mode, and battery status.
- **Control Buttons:** Used to power on/off, change modes, adjust power levels, and other settings.
- **Battery Compartment:** Holds 4x AA/LR6 batteries.

#### Ring Flash Head

The ring flash head attaches to the front of your camera lens via an adapter ring and provides the illumination.

- **LED Flash Tubes:** Two independent LED flash tubes provide even, shadow-free illumination.
- **LED AF Assist Lamp:** Helps the camera achieve focus in low-light conditions.
- **Mounting Thread:** Connects to the adapter rings.



*Image: Detailed views of the 'MACRO RING LITE' head, the battery compartment requiring 4 AA batteries, and the hot shoe mount for camera attachment.*

## 5. SETUP

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1. **Install Batteries:** Open the battery compartment on the control unit and insert 4 AA/LR6 alkaline batteries, ensuring correct polarity. Close the compartment securely.
2. **Attach Adapter Ring:** Select the appropriate adapter ring (40.5mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, or 77mm) that matches the filter thread size of your camera lens. Screw the adapter ring onto the front of your lens.
3. **Mount Ring Flash Head:** Align the ring flash head with the adapter ring and twist it clockwise until it locks securely into place.
4. **Mount Control Unit:** Slide the control unit's hot shoe mount into your camera's hot shoe. Tighten the locking wheel to secure it.
5. **Connect Cable:** Ensure the coiled cable from the ring flash head is securely plugged into the control unit.



*Image: The Meike MK-14EXT-C ring flash system fully assembled on a Canon DSLR camera, with the various adapter rings shown separately.*

## 6. OPERATING MODES

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The MK-14EXT-C offers several operating modes to suit different photographic needs:

- **Manual Mode:** Allows precise control over flash output. You can adjust the power level in 8 steps, with each step offering 3 fine-tuning adjustments. This mode is ideal for consistent lighting in controlled environments.
- **E-TTL Mode:** (Evaluative Through-The-Lens) Automatically adjusts flash output based on the camera's metering system. This mode simplifies exposure settings and is suitable for dynamic shooting conditions. Flash exposure compensation (FEC) can be adjusted in 1/3-stop increments.
- **Multi Mode:** Fires the flash multiple times during a single exposure, creating stroboscopic effects. Settings for flash frequency and number of flashes can be adjusted.
- **LED AF Assist Lamp:** Provides continuous light to assist the camera's autofocus system in low-light situations. This can be activated independently of the flash modes.
- **Individual Lamp Control:** The ring flash features two independent flash tubes (Lamp A and Lamp B). You can select to fire Lamp A only, Lamp B only, or both lamps simultaneously. This allows for creative lighting control, such as creating directional light for texture.
- **Long Brightness Mode:** Provides continuous LED light for video recording or as a modeling light.



## HIGH-PRECISION MANUAL ADJUSTMENT

8 power levels, each level has 3 fine tuning adjustment, giving you a more precise brightness output and flexible brightness control

*Image: A visual representation of macro photography, illustrating the effect of the ring flash on a ladybug, emphasizing high-precision manual adjustment capabilities.*

### 7. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the exterior of the flash unit. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth. Do not use solvents or abrasive cleaners.
- **Lens Elements:** Use a lens cleaning cloth and solution specifically designed for optical surfaces to clean the LED flash tubes.
- **Storage:** When not in use, store the flash unit in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Battery Contacts:** Periodically check battery contacts for corrosion. Clean with a pencil eraser if necessary.

### 8. TROUBLESHOOTING

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If you encounter issues with your Meike MK-14EXT-C, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Flash does not fire.	Low or dead batteries; incorrect mounting; flash not powered on; camera settings.	Replace batteries; ensure control unit is securely mounted on hot shoe; power on flash; check camera's flash settings.
Flash output is too dark/bright.	Incorrect power setting in Manual mode; incorrect exposure compensation in E-TTL mode; subject distance.	Adjust manual power level; adjust flash exposure compensation (FEC) on flash or camera; ensure subject is within effective flash range.
AF assist lamp does not work.	AF assist lamp not activated; low battery.	Activate AF assist lamp via flash controls; replace batteries.
Ring flash does not fit lens.	Incorrect adapter ring size selected.	Verify your lens filter thread size and use the corresponding adapter ring from the included set.
Flash takes too long to recycle.	Low batteries; high power output.	Replace batteries; use lower power settings if possible.

## 9. SPECIFICATIONS

The following table details the technical specifications of the Meike MK-14EXT-C E-TTL Macro LED Ring Flash:

Feature	Detail
Product Model	MK-14EXT-C
Type	Close-up Macro Flash
Firing Configuration	Two flash tubes can be fired together or single (Lamp A / Lamp B)
Flash Exposure Compensation (FEC)	Manual, FBE (Flash Bracketing Exposure) in 1/3-stop increments
Guide Number	14 (m) / 46 (ft) at ISO100
Effective Distance	Approx. 20cm - 5m
Recycling Time	Approx. 0.1 - 5 seconds
Color Temperature	5500K
Power Supply	4x AA/LR6 alkaline batteries
Battery Life	Approx. 100-800 flashes (with AA/LR6 alkaline batteries)
External Power Source	Compact battery pack CP-E4 (not included)
Compatible Mountings	Canon
Flash Sync Speed	1/320 s
Connectivity Technology	Wired
Wireless Technology	Optical Pulse
Mount Type	Hot Shoe Mount
Compatible Devices	Canon EOS 5D II, 6D, 7D, 60D, 70D, 80D, 700D, and other compatible Canon EOS DSLR cameras

## Specifications

Product Model	MK-14EXT C
Type	Close-up
Firing configuration	Two flash tubes can be fired together or single
Flash exposure compensation	Manual,FBE:in. 1/3-stop increments
Guide No	14-46 ( ISO100,in meter/inches )
Product Model	5cm-1.5m
Effective Distance	Approx. 20cm-5m
Recycling time	Approx. 0.1~5sec
Colour temperature	5500K
Supply battery	4×AA/LR6 alkaline batteries
Battery life	Approx. 100-800 flashes(with AA/LR6 alkaline batteries)
External power source	Compact battery pack CP-E4
Accessories	Adapter ring 40.5/52/55/58/62/67/72/77mm, Pouch×1,Instruction Manual×1,Warranty Card×1.

*Image: A detailed table outlining the product specifications for the Meike MK-14EXT-C.*

## 10. WARRANTY AND SUPPORT

This product comes with a limited warranty. Please refer to the included Warranty Card for specific terms and conditions, including the warranty period and coverage details. For technical support, service, or warranty claims, please contact Meike customer service through their official website or the retailer from whom you purchased the product. Keep your purchase receipt as proof of purchase for warranty purposes.