YIDOBLO MK-F-AF3

Meike MK-F-AF3 Auto Focus Macro Extension Tube User Manual

Model: MK-F-AF3

Introduction

The Meike MK-F-AF3 Auto Focus Macro Extension Tube set is designed for Fujifilm X-Mount mirrorless cameras to achieve higher magnification for close-up and macro photography. This set includes 10mm and 16mm tubes that can be used individually or combined to vary magnification. The tubes maintain electronic communication between the camera body and lens, supporting auto-focus (AF) and exposure control.
This manual provides detailed instructions for the proper setup, operation, and maintenance of your Meike MK-F-AF3 extension tubes to ensure optimal performance and longevity.

Product Overview



Figure 1: The Meike MK-F-AF3 Auto Focus Macro Extension

Tube set, featuring both the 10mm and 16mm tubes. These tubes are designed to be mounted between the camera body and the lens to enable macro photography.



Figure 2: Side view of the Meike MK-F-AF3 extension tube, highlighting the metal mounts and electronic contacts that ensure communication between the camera and lens.

The MK-F-AF3 set includes two tubes: a 10mm tube and a 16mm tube. Both tubes feature metal mounts and copper electronic contacts to maintain auto-focus and exposure control functionality. They can be used independently or stacked together for increased magnification.

Key Features:

- **Auto Focus Support:** Maintains auto-focus functionality with compatible Fujifilm X-Mount lenses.
- **Electronic Contacts:** Full electronic communication between camera and lens for aperture control and EXIF data.
- **Flexible Combinations:** Use 10mm tube, 16mm tube, or combine them (10mm + 16mm = 26mm) for various magnification ratios.
- **Durable Construction:** Features advanced aluminum body and all-copper contactors for reliability.
- **Compact Design:** Lightweight and portable, adding minimal bulk to your camera bag.

Setup and Installation

Follow these steps to properly attach the Meike MK-F-AF3 extension tubes to your camera and lens.

1. **Prepare Camera and Lens:** Ensure your camera is turned off. Remove the lens from your camera body and the rear cap from your lens.
2. **Attach Extension Tube to Camera:** Align the red dot on the extension tube (10mm or 16mm) with the red dot on your camera's lens mount. Rotate the tube clockwise until it clicks into place securely.
3. **Attach Lens to Extension Tube:** Align the white dot on your lens with the white dot on the front of the attached extension tube. Rotate the lens clockwise until it clicks into place securely.
4. **Combining Tubes (Optional):** If using both tubes, first attach the 10mm tube to the camera, then attach the 16mm tube to the 10mm tube, and finally attach the lens to the 16mm tube. Ensure all connections are secure.



Figure 3: An exploded view illustrating the assembly order: camera body, 16mm extension tube, 10mm extension tube, and lens. This demonstrates how the components fit together for macro photography.

Important Note: When using extension tubes, the focal length of your lens should generally be greater than the total length of the tube(s) used (e.g., >10mm, >16mm, or >26mm). This helps ensure proper focus and image quality.

Operating Instructions

Using the Meike MK-F-AF3 extension tubes for macro photography requires understanding how they affect focus and exposure.

Macro Shooting Principles:

- Extension tubes increase the distance between the lens and the camera's sensor, allowing the lens to focus closer than its minimum focusing distance. This results in higher magnification.
- The closer focusing distance means a shallower depth of field. Precise focusing is crucial.
- Light loss occurs when using extension tubes, requiring adjustments to exposure settings.



Figure 4: An example of macro photography setup using the extension tube, demonstrating the ability to capture close-up details of small subjects like insects.

Exposure and Focusing:

- **Auto Focus (AF):** The tubes support AF, but in macro photography, AF may struggle due to shallow depth of field and low light. Manual focus is often preferred for critical sharpness.
- **Manual Mode:** It is recommended to use your camera in Manual (M) mode to directly control shutter speed and aperture for exposure compensation.
- **Aperture:** Using a narrower aperture (higher f-number) will increase depth of field, which is often desirable in macro photography, but will also reduce light.
- **Lighting:** Due to light loss, consider using external lighting (e.g., flash, LED panel) for optimal results.

Magnification and Exposure Factors:

The following table provides approximate image magnification ratios and exposure factors when using a 50mm standard lens with the extension tubes. These values can help in understanding the effect of the tubes on your photography.

Table 1: Image Magnification Ratios and Exposure Factors (50mm Standard Lens)

Extension Tube	Distance Reading of Master Lens	Image Magnification Ratio	Field Coverage (cm)	Exposure Factor
10mm	inf	0.2	6.5×8.7	1.44
	0.5	0.31	4.2×5.6	1.72
16mm	inf	0.32	4.1×5.4	1.74
	0.5	0.43	3.0×4.0	2.04
10+16mm	inf	0.52	2.5×3.3	2.31
	0.5	0.63	2.1×2.7	2.66

Figure 5: A table detailing the image magnification ratios, field coverage, and exposure factors for the 10mm, 16mm, and combined 26mm extension tubes when used with a 50mm standard lens. This data assists photographers in understanding the optical effects of the tubes.

Maintenance and Care

Proper care will ensure the longevity and optimal performance of your Meike MK-F-AF3 extension tubes.

- **Cleaning:** Use a clean, dry microfiber cloth to wipe the exterior of the tubes. Avoid using liquid cleaners or solvents.
- **Contacts:** If the electronic contacts appear dirty, gently wipe them with a clean, dry cotton swab. Do not use abrasive materials.
- **Storage:** Store the extension tubes in a dry, dust-free environment when not in use. Use the provided caps to protect the mounts.
- **Handling:** Always handle the tubes by their body, avoiding touching the electronic contacts or optical elements (if any).
- **Avoid Impact:** Protect the tubes from drops or impacts, which can damage the precision components.

Troubleshooting

If you encounter issues while using your Meike MK-F-AF3 extension tubes, refer to the following common problems and solutions.

Problem	Solution

Problem	Solution
Camera not recognizing lens / No AF	◦ Ensure the extension tubes and lens are securely attached and clicked into place. ◦ Clean the electronic contacts on both the tubes and the lens/camera body with a dry, lint-free cloth. ◦ Turn the camera off and on again after reattaching. ◦ Verify that your lens is compatible with auto-focus through extension tubes.
Difficulty achieving focus	◦ In macro photography, depth of field is very shallow. Try focusing manually for precise control. ◦ Increase ambient light or use an external light source (e.g., flash, LED). ◦ Ensure the lens focal length is appropriate for the extension tube length (e.g., >26mm for combined tubes). ◦ Use a tripod to minimize camera shake.
Images are too dark (underexposed)	◦ Extension tubes cause light loss. Increase ISO, use a wider aperture (lower f-number), or slow down shutter speed. ◦ Refer to the Exposure Factor table in the Operating Instructions section for guidance. ◦ Consider using an external flash or continuous lighting.

Specifications

- **Model:** MK-F-AF3
- **Compatibility:** Fujifilm X-Mount Mirrorless Cameras
- **Tube Lengths:** 10mm, 16mm (can be combined for 26mm)
- **Material:** Advanced Aluminum Body, All Copper Contactors
- **Auto Focus:** Supported
- **Electronic Communication:** Supported
- **Dimensions (Package):** 3.11 x 3.03 x 2.44 inches (70 x 68 x 64 mm)
- **Item Weight:** 3.52 ounces

Warranty Information

This product is covered by a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions, including warranty period and coverage details. Keep your purchase receipt as proof of purchase for warranty claims.
For warranty service or inquiries, please contact the retailer where you purchased the product or the manufacturer's customer support.

Customer Support

For technical assistance, troubleshooting beyond this manual, or general inquiries about your Meike MK-F-AF3 extension tubes, please contact our customer support team.
Manufacturer: mk-F-AF3
Brand: YIDOBLO
Contact Information: Please refer to the contact details provided on the product packaging or the official YIDOBLO/Meike website for the most up-to-date support information.
You may also visit the YIDOBLO Store on Amazon for more product information and support resources.

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