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**Hilitand 500mm f6.3**

# Hilitand 500mm f6.3 Telephoto Mirror Lens Instruction Manual

Model: 500mm f6.3

## 1. INTRODUCTION

This manual provides essential instructions for the proper use and care of your Hilitand 500mm f6.3 Telephoto Mirror Lens. This lens is designed for AF Mount SLR Cameras and is ideal for capturing distant subjects such as landscapes, architecture, wildlife, and portraits. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.



Image 1.1: Front view of the Hilitand 500mm f6.3 Telephoto Mirror Lens.

## 2. PRODUCT FEATURES

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- **500mm Telephoto Lens:** Excellent for photographing birds, wildlife, and distant subjects.
- **Mirror Design:** Reduces lens size and weight, enhancing portability and ease of use.
- **Optical Structure:** Features 6 elements in 7 groups for clear image rendition.
- **Multi-layer MC Coating:** Suppresses lens flare and ghosting, improving contrast and color accuracy.
- **F6.3 Large Aperture:** Increases light intake for more reliable and faster shutter speeds.
- **Durable Construction:** Made of alloy for a strong and exquisite finish.



6 elements in 7 groups optical structure, multi-layer MC coating can suppress lens flare and ghosting, improve contrast and color authenticity



Image 2.1: The lens features a 6-element, 7-group optical structure with multi-layer MC coating to reduce flare and ghosting.

The large aperture of F6.3 greatly increases the amount of light entering in order to obtain a more reliable and safe shutter time



Image 2.2: The F6.3 large aperture allows for increased light intake, beneficial for various photographic scenarios.

### 3. SPECIFICATIONS

Specification	Value
Item Type	Telephoto Mirror Lens
Material	Alloy + optical glass
Focal Length	500 mm
Aperture	F6.3
Mount	For AF mount (Sony AF, Minolta AF)
Optical Structure	6 Elements in 7 Groups
Perspective	5°

Specification	Value
Coating	Multi-layer MC coating
Focus Mode	Manual Focus
Anti-shake Function	None
Closest Focusing Distance	2m / 6.6ft
Weight	Approx. 838g / 29.6oz (1.76 pounds)
Product Dimensions	0.39 x 0.39 x 0.39 inches (approximate)

## 4. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- 1 x Telephoto Mirror Lens
- 1 x Storage Bag
- 1 x Adapter Ring (T2-AF mount)
- 1 x Wrench
- 1 x Manual (this document)



Image 4.1: The complete package contents, including the lens, storage bag, adapter ring, and wrench.

## 5. SETUP AND INSTALLATION

Follow these steps to properly attach the lens to your AF Mount SLR Camera:

1. **Attach the Lens to the Adapter Ring:** Align the identification point on the lens mount with the identification

point on the adapter ring. Rotate the lens clockwise until you hear a "click" sound, indicating it is securely installed.

2. **Attach the Adapter Ring to the Camera Body:** Align the identification point on the lens adapter ring with the identification point on your camera's body. Rotate the adapter ring clockwise until you hear a "click" sound, confirming it is installed in place.
3. **Removing the Lens:** To remove the lens, press and hold the camera lens release button. Rotate the lens counterclockwise to detach it along with the adapter ring.
4. **Removing the Adapter Ring from the Lens:** Press the adapter ring release (if present) and rotate it counterclockwise to separate the adapter ring from the lens.

**Note on Adapter Ring Types:** The adapter rings may vary in design (new type vs. old type) but function identically. Both types are compatible.

## NEW AND OLD MODELS ARE SHIPPED RANDOMLY



New Type



Old Type

Image 5.1: Example of different adapter ring types that may be included with your lens.

## 6. OPERATING INSTRUCTIONS

This 500mm f6.3 lens features manual focus. Follow these guidelines for operation:

- **Manual Focus:** Rotate the focus ring on the lens barrel to achieve sharp focus on your subject. Your camera's viewfinder or live view display will assist in confirming focus.
- **Aperture:** The lens has a fixed aperture of F6.3. Adjust your camera's ISO and shutter speed settings to control exposure.
- **Exposure Modes:** Use your camera in Manual (M) or Aperture Priority (A/Av) mode for best results with a manual lens.
- **Tripod Use:** Due to the long focal length (500mm), using a tripod is highly recommended to minimize camera shake and achieve sharper images, especially in lower light conditions.



Image 6.1: The lens barrel with focus distance markings in feet (ft) and meters (m).

## 7. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and performance of your lens:

- **Cleaning the Lens:** Use a soft, lint-free microfiber cloth specifically designed for optical surfaces. For stubborn smudges, use a small amount of lens cleaning fluid applied to the cloth, not directly to the lens.
- **Dust Removal:** Use a blower brush to remove dust particles from the lens surfaces before wiping.
- **Storage:** Store the lens in its provided storage bag or a dry, cool place away from direct sunlight and extreme temperatures. Keep both front and rear lens caps on when not in use.
- **Avoid Moisture:** Protect the lens from rain, splashes, and high humidity. If it gets wet, wipe it dry immediately.

- **Handling:** Avoid dropping or subjecting the lens to strong impacts.

## 8. TROUBLESHOOTING

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

- **Unsharp Images:**

- Ensure proper manual focus.
- Check for camera shake; use a tripod or faster shutter speed.
- Verify lens surfaces are clean.

- **Lens Not Attaching:**

- Confirm the adapter ring is correctly aligned with both the lens and camera body.
- Ensure the adapter ring is the correct type for your camera's AF mount.

- **Exposure Issues:**

- Since the aperture is fixed, adjust your camera's ISO and shutter speed settings.
- Ensure your camera is in a suitable manual or aperture priority mode.

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact Hilitand customer service through their official channels. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the [Hilitand Store on Amazon](#).