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> APEXEL MS150 Phone Microscope Lens User Manual

## APEXEL MS150

# APEXEL MS150 Phone Microscope Lens User Manual

Brand: APEXEL | Model: MS150

## 1. INTRODUCTION AND OVERVIEW

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The APEXEL MS150 Phone Microscope Lens transforms your smartphone into a powerful microscope, offering 150X HD magnification. Designed for ease of use, it features built-in LED lights with multiple modes, a CPL filter to reduce glare, and a universal clip for broad compatibility. This compact and lightweight attachment is ideal for exploring the micro world, from nature and insects to jewelry and textiles.



Flowers



Insects



Jewelry



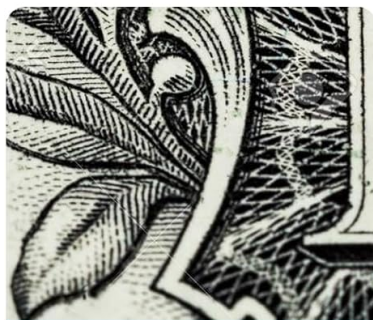
Coins



Painting



Tobacco



Cash



Textiles

Image: The APEXEL MS150 Phone Microscope Lens in use, demonstrating its ability to magnify various everyday objects.

## 2. PACKAGE CONTENTS

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Please verify that all items listed below are included in your package:

- 150X Phone Micro Lens
- Universal Phone Clip
- USB Charging Cable
- Cleaning Cloth
- Storage Pouch
- User Manual

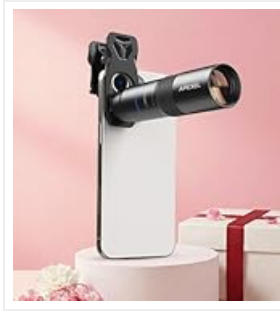


Image: Detailed view of the APEXEL MS150 Phone Microscope Lens and its included accessories.

### 3. SETUP INSTRUCTIONS

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Follow these steps to properly attach and prepare your APEXEL MS150 Phone Microscope Lens for use:

1. **Remove Phone Case:** For optimal optical performance and precise focus, remove your phone case before attaching the lens.
2. **Attach Universal Clip:** Pull apart the stretching clamp of the universal clip and insert your smartphone. Ensure the clip is securely positioned over your phone's main camera lens.
3. **Align Lens:** Loosen the top screw on the clip and push the slider to align the microscope lens precisely with your phone's main camera lens.
4. **Secure Lens:** Tighten the top fixed screw to secure the focus hole position. Press the microscope directly into the slot until you hear a 'click' sound, indicating successful installation.
5. **Charge Battery:** Connect the provided USB charging cable to the lens's charging port and a power source. The built-in 100mAh rechargeable battery provides up to 5.5 hours of continuous use.



## Install Now, Connect Now and Share Now

No need to download APP, take photos and videos at any time

## Built-in Rechargeable Battery 100mAh

Up to 5.5 Hours of Battery Life for All-day Use

- Battery Capacity 3.7V 100 mAh
- Charging time About 1.5 hour
- Battery working 5.5 hours
- 1000mAh Lithium Battery
- Can support common equipment to supply power



Image: Step-by-step guide for quick installation of the microscope lens.

### Important Compatibility Notes:

- The universal clip is compatible with most smartphones 71-105 mm (2.8-4.1") wide.
- For iPhone 13 and newer, and Samsung Galaxy S22/S23 Ultra, disable the camera's macro feature before use to ensure proper functionality.



Image: The microscope lens demonstrating compatibility with different phone models.

## 4. OPERATING INSTRUCTIONS

### 4.1 Capturing Magnified Images

Once the lens is securely attached and aligned with your phone's main camera, open your phone's camera application. The 150X magnification will be active. The optimal working distance between the lens and the subject is 6-10mm.

### Lightweight and Portable Only Weighs 1.7oz (46.5g)

Compact and space-saving, easily fits in your pocket,  
easy to explore wherever you go.



Image: Demonstrating the optimal focus distance for the microscope lens.

### 4.2 Using Built-in LED Lights and CPL Filter

The lens features built-in LED lights and a CPL filter to enhance your viewing and photography experience:

- **LED Lights:** The lens includes 12 high-bright LED lights and 13 lighting modes, including a 395nm UV light. Use the power button to cycle through different lighting options (e.g., half-circle, full-circle, warm light, white light, UV light). Short press the mode button to adjust brightness levels.
- **CPL Filter:** The integrated CPL filter helps reduce excessive reflections and glare, ensuring clearer and more vivid images, especially when observing reflective surfaces like coins or jewelry.

# Built-in LED Lights

18 High-Brightness LEDs | 19 Lighting Modes



☀️ 3-Level Brightness Adjustment



🌈 2-Level Color Temperature Adjustment



White Light    Yellow Light

☀️ 3 Lighting Ranges



Left Half Circle    Right Half Circle    Full Circle

🌟 1 UV Light Identification



Image: Overview of the LED lighting modes and brightness adjustments.

## Equipped with CPL Polarizing Filter

Effectively Reduces Surface Reflections and Enhances Image Details.



Image: Effect of the CPL polarizing filter on image quality.

### 4.3 Video Demonstration

Your browser does not support the video tag.

Video: Official APEXEL demonstration of the 100X/150X/200X/3-IN-1 Phone Microscope Lens, showcasing its features and usage.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your APEXEL MS150 Phone Microscope Lens, follow these maintenance guidelines:

- **Cleaning:** Use the provided cleaning cloth to gently wipe the lens surface. Avoid using abrasive materials or harsh chemicals that could scratch or damage the lens coating.
- **Storage:** When not in use, store the lens in the provided storage pouch to protect it from dust, scratches, and impacts.
- **Battery Care:** Recharge the battery regularly, even if not frequently used, to maintain battery health. Avoid fully discharging the battery for extended periods.

## 6. TROUBLESHOOTING

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If you encounter issues with your APEXEL MS150 Phone Microscope Lens, refer to the following common troubleshooting tips:

- **Unclear Image:**
  - Ensure the lens is perfectly aligned with your phone's main camera.
  - Verify the optimal working distance (6-10mm) between the lens and the subject.
  - Clean the lens surface with the provided cleaning cloth.
  - Remove your phone case for better alignment and focus.
- **No Light/Dim Light:**
  - Check if the battery is charged. Connect the USB charging cable to recharge.
  - Ensure the power button is pressed and held to turn on the light, then short-press the mode button to cycle through brightness levels.
- **Phone Macro Feature Interference:**
  - For iPhone 13 and newer, and Samsung Galaxy S22/S23 Ultra, disable the phone's native macro feature in camera settings to prevent interference with the external lens.
- **Lens Not Staying Secure:**
  - Ensure the top fixed screw on the universal clip is tightened after aligning the lens.
  - Confirm the microscope is fully clicked into the clip's slot.

## 7. SPECIFICATIONS

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<b>Brand</b>	APEXEL
<b>Model Name</b>	MS150
<b>Camera Lens Description</b>	150X Phone Micro Lens
<b>Zoom Ratio</b>	150X
<b>Lens Type</b>	Macro
<b>Focal Length Description</b>	6 millimeters
<b>Minimum Focal Length</b>	6 Millimeters
<b>Maximum Focal Length</b>	6 Millimeters
<b>Lens Design</b>	Zoom
<b>Focus Type</b>	Manual Focus
<b>Lens Coating Description</b>	HD Coating
<b>Image Stabilization</b>	No image stabilization
<b>Real Angle Of View</b>	1.2 Degrees

<b>Compatible Devices</b>	Smartphone
<b>Exposure Control Type</b>	Manual
<b>Water Resistance Level</b>	Not Water Resistant
<b>Battery Average Life</b>	5.5 Hours
<b>Color</b>	Black
<b>Item Weight</b>	132 Grams

## 8. WARRANTY AND SUPPORT

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The APEXEL MS150 Phone Microscope Lens comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product is free from defects in materials and workmanship under normal use.

For technical support, warranty claims, or any inquiries regarding your product, please contact APEXEL customer service through the retailer where you purchased the product or visit the official APEXEL website for contact information.