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> Leipan 7-inch LCD Digital Microscope User Manual

## Leipan DM9-7" Digital Microscope

# Leipan 7-inch LCD Digital Microscope User Manual

Model: DM9-7" Digital Microscope

## 1. PRODUCT OVERVIEW

The Leipan DM9-7" Digital Microscope is a versatile tool designed for detailed observation, featuring a 7-inch rotatable HD screen, 12MP camera, and up to 1200X magnification. It is suitable for various applications including coin inspection, circuit board repair, and educational exploration.

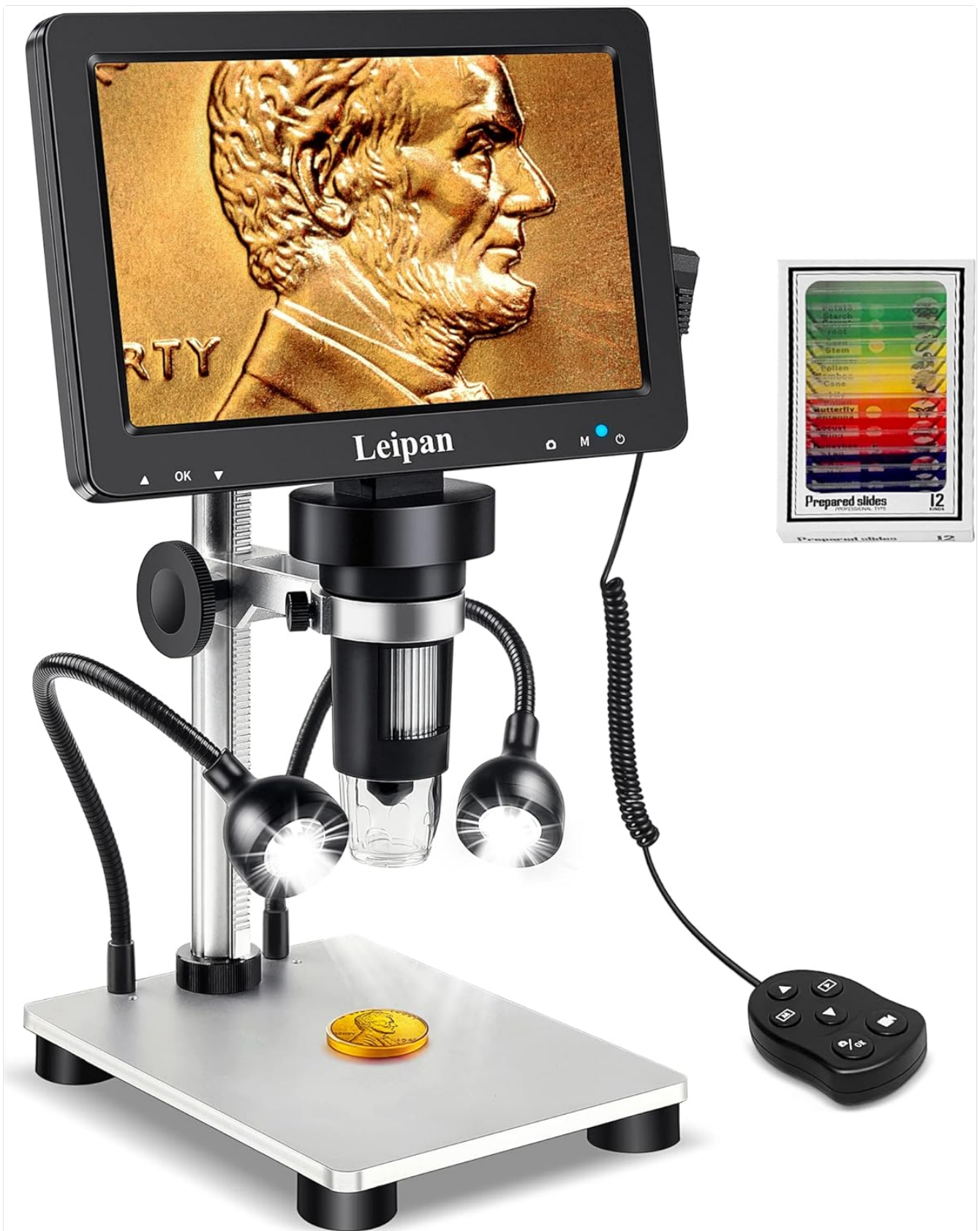


Figure 1.1: Leipan DM9-7" Digital Microscope with included accessories.

### Key Features:

- 7-inch Rotatable HD Screen (1080P)
- 12MP Focusing Camera for High-Quality Images and Videos
- Continuous 10X-1200X Magnification
- 8 Adjustable LED Lights + 2 Flexible Side Lights
- PC Compatibility (Windows and Mac OS)

- Photo and Video Recording Functionality with Wired Remote
- Height Adjustable Solid Metal Holder and Base

## **2. SETUP GUIDE**

### **2.1 Unpacking and Assembly**

Carefully remove all components from the packaging. Assemble the microscope stand and attach the main unit, ensuring all connections are secure. The metal base provides stability for various applications.

# Innovative Design



## 8 LED lights+2 side lights

Ensure the tiny details clear enough



## 12 Mega Pixel

Ultra-Precise Focusing



## Aluminum Alloy Base

More sturdy and suit for soldering



## Wired Remote

More convenient for take photo or menu setting



Figure 2.1: Component overview and innovative design features.

## 2.2 Powering On and Initial Connection

Connect the microscope to a power source using the provided USB cable. The device can be powered via a standard USB adapter or a computer USB port. Press the power button to turn on the microscope.

Video 2.2: Demonstrates how to charge and power on the Leipan DM9 microscope.

## 2.3 Connecting to a PC (Windows/Mac OS)

To view images on a larger screen, connect the microscope to your PC or laptop using a data cable. No additional software download is required. For Windows 10, use the default "Windows Camera" application. For iMac/MacBook, use "Photo Booth."

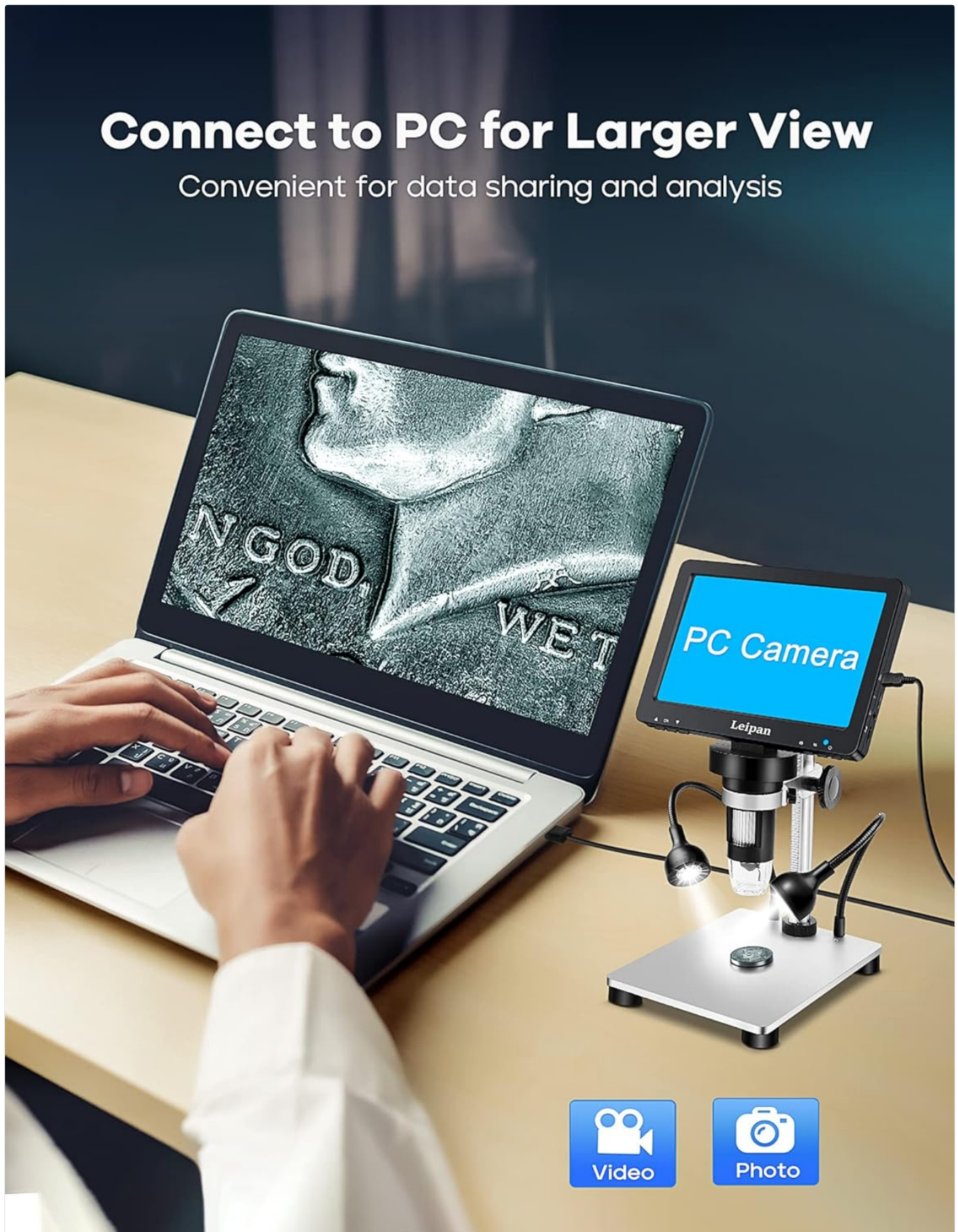


Figure 2.3: Connecting the microscope to a PC for a larger view.

Video 2.4: Instructions on how to connect the Leipan DM9 to a computer and use it as a PC camera.

## **3. OPERATING INSTRUCTIONS**

### **3.1 Adjusting Magnification and Focus**

The microscope offers continuous magnification from 10X to 1200X. Rotate the focus wheel on the main unit to achieve a clear image. The actual magnification observed will vary based on the screen size and the distance between the camera and the object.

# 7 inch 1080P Screen 1200X Magnification

Bigger display, Higher magnification, Better experience



Figure 3.1: Examples of magnification levels from 10X to 1200X.

## 3.2 Lighting Control

The microscope is equipped with 8 adjustable LED illuminators and 2 flexible side lights. Adjust the brightness and position of the side lights to ensure all parts of your specimen are clearly illuminated, especially for objects with complex surfaces.

Video 3.2: Guide on how to turn on and adjust the side lights for optimal viewing.

### 3.3 Photo and Video Recording

Capture 12MP photos (4023\*3024) and record 1080FHD videos (1920\*1080 at 30fps). You can take photos and videos by pressing the button on the main unit or by using the wired remote control. Using the wired remote is recommended to minimize camera shake and achieve clearer results.

## Adjustable Stand and Screen

Adjust to the comfortable angle according to your needs



Figure 3.3: The microscope's capability to capture high-quality photos and videos.

Video 3.4: An overview of the Leipan 7-inch digital microscope's features and operational aspects.

### 3.4 Screen and Stand Adjustment

The 7-inch screen is rotatable up to 90 degrees, allowing you to find the most comfortable viewing angle and reduce eye and neck strain during prolonged use. The robust metal stand is height-adjustable, providing flexibility for various object sizes and observation needs.

# More than a microscope

Take photos and record videos, record your new discovery

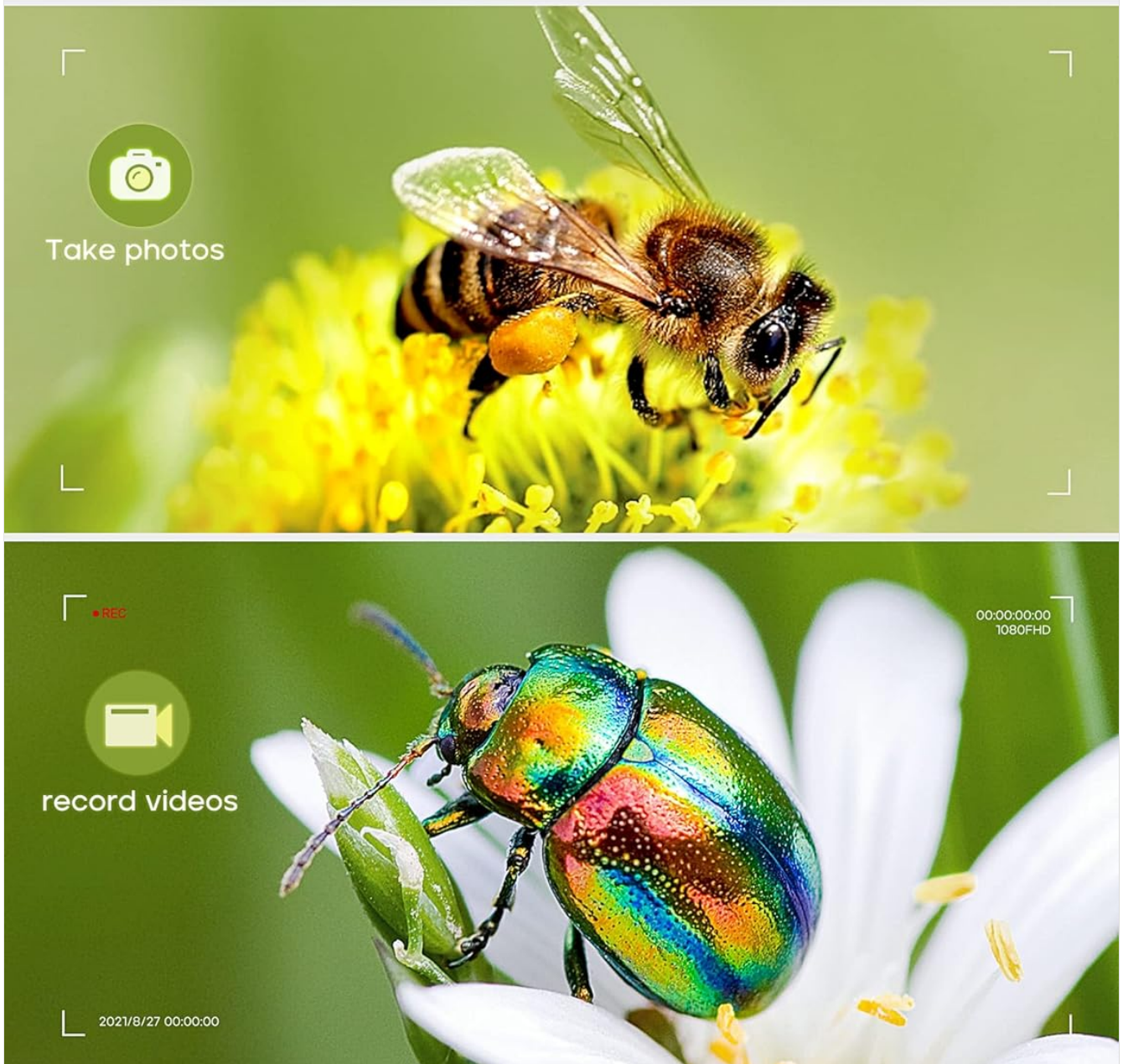


Figure 3.5: Adjustable stand and screen for ergonomic viewing.

## 4. MAINTENANCE

### 4.1 Cleaning

To maintain optimal performance, regularly clean the microscope's lens and screen. Use a soft, lint-free cloth for the screen. For the lens, use a specialized lens cleaning solution and cloth to avoid scratches. Ensure the device is powered off and disconnected from power before cleaning.

### 4.2 Storage

Store the microscope in a dry, dust-free environment when not in use. Avoid exposing it to extreme temperatures or direct sunlight. If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.

### 4.3 Battery Care

The microscope uses a Lithium Ion battery. For long-term usage exceeding 30 minutes, it is recommended to keep the power connection plugged in. Avoid fully discharging the battery frequently to maintain its health.

## 5. TROUBLESHOOTING

### 5.1 No Power/Device Not Turning On

- Ensure the power cable is securely connected to both the microscope and the power source.
- Verify the power source is active.
- Allow the battery to charge for at least 30 minutes if it was completely depleted.
- Try a different USB cable or power adapter.

### 5.2 Blurred Image

- Adjust the focus wheel on the main unit until the image is clear.
- Ensure the object is placed directly under the lens and within the optimal working distance.
- Clean the lens if there are smudges or dust.

### 5.3 PC Connection Issues

- Ensure the USB cable is properly connected to both the microscope and the computer.
- On the microscope screen, select "PC Camera" mode when prompted after connecting to the computer.
- Verify that your computer's camera application (e.g., "Windows Camera" or "Photo Booth") is open and selected the microscope as the input device.
- Try a different USB port on your computer.

## 6. SPECIFICATIONS

Feature	Specification
Brand	Leipan
Model Number	LP-DM9
Product Dimensions	9.5 x 8.2 x 3.3 inches (24.13 x 20.83 x 8.38 cm)
Item Weight	2.82 pounds (1.28 Kilograms)
Screen Size	7 inches
Magnification	10X-1200X
Camera Resolution	12MP (4023*3024)
Video Resolution	1080FHD (1920*1080 30fps)
Light Source Type	LED (8 main, 2 flexible side lights)
Material	Metal (Aluminum Alloy Base)
Power Source	5 Volts (DC), 1 Lithium Ion battery required
Compatible Devices	Laptop (Windows, Mac OS)

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

Leipan digital microscopes are manufactured under strict quality standards. We provide a 3-year worry-free warranty from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use.

### 7.2 Customer Support

For any issues, questions, or support needs, please do not hesitate to contact our customer service team. We offer 7\*24 hours customer service and are committed to providing a satisfied solution.

Please refer to your purchase documentation or the Leipan official website for specific contact details.