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XCSOURCE TE129

XCSOURCE 2.0MP 200X USB Digital Microscope TE129 User Manual

1. Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your XCSOURCE 2.0MP 200X USB Digital Microscope, model TE129. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize its performance.

2. Product Overview

The XCSOURCE TE129 is a versatile USB digital microscope designed for various applications, including industrial inspection, scientific research, skin inspection, textile inspection, jewelry inspection, collection/coin inspection, printing inspection, and more. It features a 2.0-megapixel sensor, up to 200X magnification, and 8 built-in LED lights for clear illumination.

2.1 Key Features

- 2.0 Megapixel Image Sensor
- High-Speed DSP Controller
- Dual Axis Lens for 27X and 100X Micro-scope Magnification
- Manual Focus from 10 mm to infinite
- Software and Hardware Snapshot Functionality
- Adjustable 8 White Light LEDs with controller on USB cable
- Compatible with Windows Vista/XP/7 and Mac operating systems

2.2 Components



Figure 1: Front view of the XCSOURCE TE129 USB Digital Microscope. This image shows the main body of the microscope, the clear protective cap over the lens, and the USB cable extending from the rear.



Figure 2: Rear view of the XCSOURCE TE129 USB Digital Microscope. This image highlights the USB connector and the inline controller on the USB cable, which is used to adjust the LED illumination.



Figure 3: Package contents. This image displays all items included in the product package: the USB digital microscope, a metal stand, and a CD containing the necessary drivers and software.

3. Setup

3.1 System Requirements

- Operating System: Windows Vista/XP/7 or Mac OS
- PC Interface: Mini USB 2.0 & USB 1.1



Figure 4: Operating System Compatibility. This image illustrates that the microscope is compatible with both Mac and Windows operating systems, connecting via USB 2.0.

3.2 Driver and Software Installation

1. Insert the provided CD-ROM into your computer's optical drive.
2. Follow the on-screen instructions to install the AMCAP software and necessary drivers. If your computer does not have an optical drive, please visit the XCSOURCE support website to download the latest drivers and software.
3. Once the installation is complete, restart your computer if prompted.

3.3 Connecting the Microscope

1. Connect the USB cable of the microscope to an available USB port on your computer.
2. Place the microscope onto its stand (if using) and adjust the position as needed.

4. Operating Instructions

4.1 Launching the Software

After connecting the microscope, launch the AMCAP software (or equivalent application) installed on your computer. The live feed from the microscope should appear on your screen.

4.2 Adjusting Magnification and Focus

- **Magnification:** The microscope offers a manual magnification ratio from 10X to 200X. To change the magnification, rotate the barrel of the microscope.
- **Focus:** The focus range is manual, from 10 mm to infinite. Rotate the focus wheel on the microscope body to achieve a clear image of your specimen.

4.3 Adjusting LED Illumination

The microscope is equipped with 8 white LED lights. An inline controller on the USB cable allows you to adjust the brightness of these LEDs. Rotate the wheel on the controller to increase or decrease the light intensity for optimal viewing conditions.

4.4 Capturing Images and Videos

- **Still Images:** Use the snapshot button on the microscope (if available) or the snapshot function within the AMCAP software to capture still images. Captured images are saved in JPEG format.
- **Video Recording:** Use the video capture function within the AMCAP software to record video. Videos are saved in AVI format.

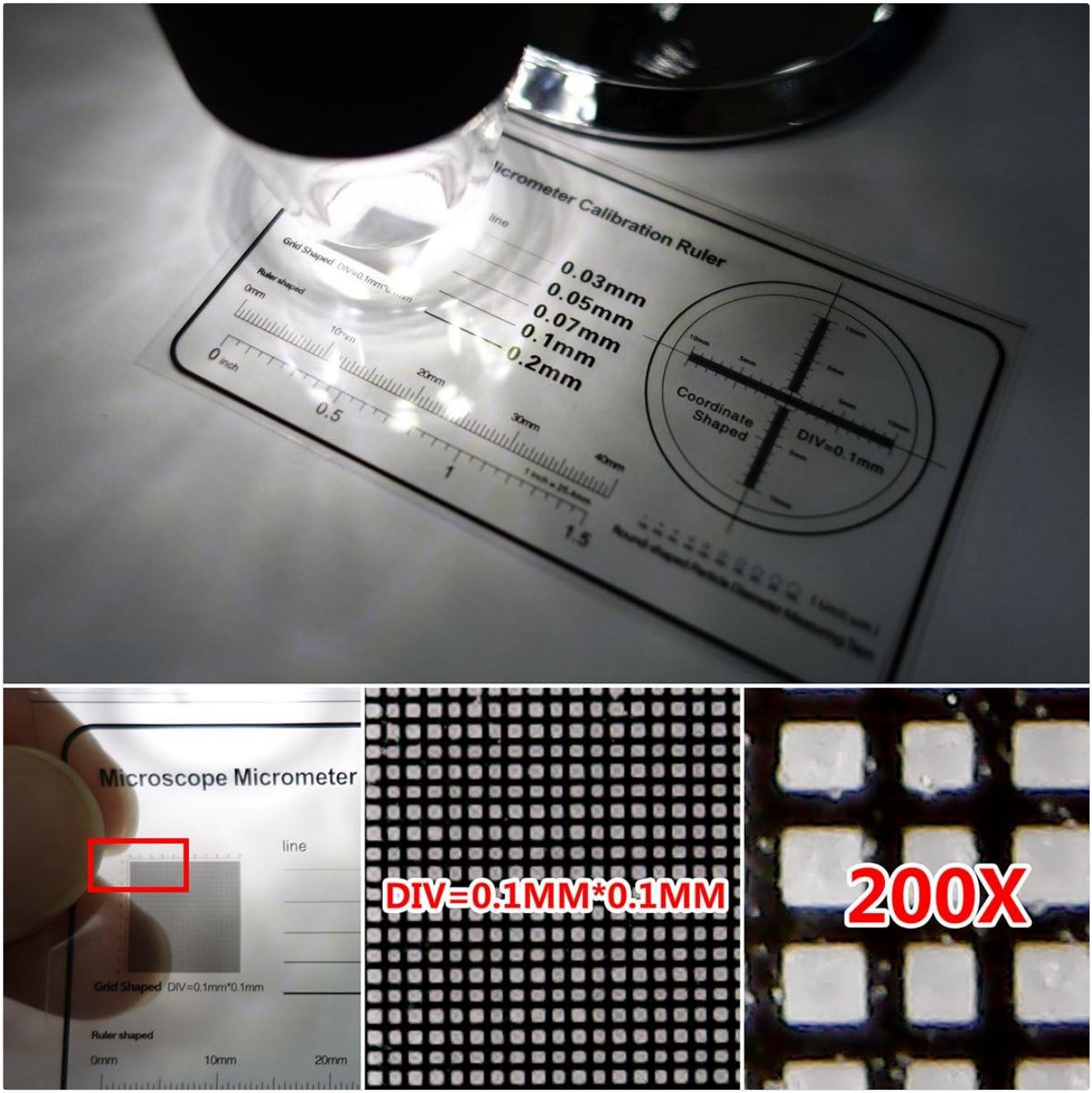


Figure 5: Microscope in use with a calibration ruler. This image demonstrates the microscope's ability to magnify small details, showing a calibration ruler under the lens and a magnified view on a screen, indicating 200X magnification.



Figure 6: Microscope mounted on its stand. This image shows the digital microscope securely attached to its adjustable stand, providing stability for precise observation.

5. Maintenance

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently clean the microscope lens. Avoid using abrasive materials or harsh chemicals.
- **Cleaning the Body:** Wipe the microscope body with a dry or slightly damp soft cloth. Do not allow water or other liquids to enter the device.
- **Storage:** Store the microscope in a clean, dry place away from direct sunlight and extreme temperatures. Use the protective cap to cover the lens when not in use.

6. Troubleshooting

- **No Image on Screen:**
    - Ensure the USB cable is securely connected to both the microscope and the computer.

- Verify that the drivers and software are correctly installed. Try reinstalling them if necessary.
- Check if the correct video device is selected within the AMCAP software settings.
- Try connecting to a different USB port on your computer.

- **Image is Blurry:**
  - Adjust the focus wheel on the microscope body until the image becomes clear.
  - Ensure the specimen is within the microscope's working distance (10 mm to infinite).
  - Clean the microscope lens if there is any dust or smudges.

- **LED Lights Not Working:**
  - Check the inline LED brightness controller on the USB cable and ensure it is turned up.
  - Verify that the microscope is properly connected to the computer's USB port, which supplies power.

7. Specifications

Feature	Specification
Image Sensor	2.0 Megapixels
Controller	High Speed DSP
Lens	Dual Axis 27X and 100X Micro-scope Lens
Focus Range	Manual Focus (10 mm to infinite)
Snapshot	Software and Hardware
Video Capture Resolution	1280x1024, 640x480, 320x240, 160x120
Still Image Capture Resolution	1280x1024, 640x480, 320x240, 160x120
Frame Rate	Max 30f/s (under 600 Lux Brightness)
Flicker Control	50Hz/60Hz Option
Video Format	AVI
Snapshot Format	JPEG
Light Source	8 White Light LEDs (with controller on USB cable)
Magnification Ratio	10X ~ 200X (Manual)
Power Supply	USB Port (5V DC)
Software	AMCAP (Driver)
PC Interface	Mini USB 2.0 & USB 1.1
Operation System	Windows Vista/XP/7, Mac OS
Dimensions	110 mm (L) x 33 mm (R)

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact XCSOURCE customer service directly. Contact details can typically be found on the manufacturer's official website or on your purchase receipt.

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