LCD数码显微镜
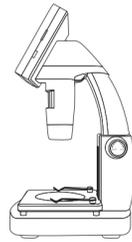使用说明书

重要提示

感谢购买LCD数码显微镜，请花点时间阅读本手册，它的内容将帮助您充分利用智能显微镜。
在使用LCD数码显微镜之前，请确保您已阅读和理解安全预防措施，如下图所描述的，始终确保LCD数字显微镜正确操作。

1. 将 LCD 数码显微镜远离水和其他液体，不要淹没手或用 LCD 数码显微镜，切勿在雨天或下雪时使用 LCD 数码显微镜，水分会产生火灾和触电的危险。

2. 如果您发现 LCD 数码显微镜上冒烟或有奇怪，立即关闭电源。

3. LCD 数码显微镜在使用过程中可能会微微变热，这并不表示故障。

4. 如果 LCD 数码显微镜的外部需清洁，请用柔软的干布擦拭。

远离液体　　远离火焰　　清洁请用干布

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① 产品描述

（一）标准配件
1. LCD数码显微镜　　3. 清洁布
2. USB 数据线　　　　4. 操作指南

（二）零件名称和功能

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① 4.3寸显示屏　　⑧ 滚轮A
② Micro TF卡插槽　⑨ 载物台
③ HDMI接口　　　　⑩ 捕捉按钮
④ LED亮度调节器　⑪ 复位孔
⑤ 调焦轮（滚轮B）⑫ DC 5V输入
⑥ 显微镜镜筒　　　⑬ 充电指示灯
⑦ 滚轮C

（三）功能介绍
1. Micro 卡槽：最高支持 32GB 的 MicroTF 卡（本机未配），包括 FAT、FAT32 两种文件格式。
2. Micro 度：DC 5V 电和数据传输。
3. HDMI 高清接口：HDMI 视频传输。
4. 开关机键，短按电源键切进入文件浏览模式，长按开关机。

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5. 拍照键：短按拍照，长按录像，再短按一次停止录像
6. 菜单键，短按进入菜单页面，在这里可以设置语言 / LCD 亮度 / 日期和时间 / 屏幕保护 / 电源频率 / 格式化 / 恢复出厂设置 / 固件版本
7. 放大 / 右键，拍照模式，短按放大，其他模式上下移动光标
8. 缩小 / 左键，拍照模式，短按缩小，其他模式，下移或右移
9. 确认 / 左键，短按确认，长按旋转 B 以获得精细对焦。
10. LED 亮度调节器，向上增强光线，向下减弱光线

调焦轮：旋转此轮以调整到清晰的图像，共有 50x 和 1000x 两个清晰的界面

② 使用步骤

（一）标准模式
1. 将 MicroTF 卡（本机未配有）插入 MicroTF 卡槽；轻轻按入，直到卡被锁定（注意：必须插入 MicroTF 卡才能录制和存储拍摄照片和视频。
2. 长按开 / 关按钮，打开设备。
3. 将待观察的物体放在对应载物台上，旋转轮 A 使物体靠近显微镜镜筒。
4. 左右旋转轮 B 以获得精细对焦。
5. 当清晰观察到后，顺时针旋转轮 C 以锁定物体平台。

（三）PC模式
注意：在PC模式下工作时，设备按钮功能不再有效。

Windows 系统
A. 从以下链接下载并安装软件。
www.inskam.com/download/PC.zip
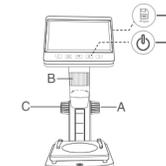
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（二）U盘存储模式

通过 USB 数据线将显微镜连接到计算机，开启设备，选择 Mass Storage 模式，然后您可以在电脑上查看存储的照片和视频。

B. 打开设备并通过数据线连接设备和计算机终端，选择 PC Camera 模式。
C. 打开"智能相机"，在设备中单击业器，如下图所示。

C. 单击相机并切换摄像头，如下图所示。

（四）HDMI模式

通过 HDMI 高清线 本机未配有），将显微镜及带 HDMI 功能的高清显示器连接，然后您可以在高清显示器上实时观察您看到的图像。

③ 充电
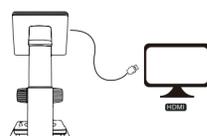
将电源适配器的小端插入设于设备底部的 DC 5V-in 接口，然后将电源适配器的另一端插入标准 AC 插座，设备末端角落的电池指示灯 LED 将变红色，表示电池正充电。

电池完成充电后，电池指示灯 LED 将熄灭。接下电源插头，整个充电过程约 4 小时。

完全充电后，您可以连续使用显微镜长达 4 个小时，当电池电量不足时，指示灯下角会有低电量提示灯提示 如下图) LED 灯会变弱。图像质量会变差，然后，您必须连接电源适配器并将其插入为电池充电。

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④ 产品规格

图像传感器	2 百万高品质图像传感器
放大倍数	50x~1000x
显示屏	4.3 英寸 TFT 屏幕, 16:9
调焦范围	0~40mm
对焦模式	手动
数据格式	JPG/AVI
分辨率	300px
光源	8 颗 LED 灯 亮度可调）
帧速率	30fps
操作系统	Windows XP /Vista /Win7/8/10, Mac 10.5 or above
接口	USB2.0
镜头结构	25xxH
OSD 语言	英语
镜头角度	16°
电池	锂离子 3.7V / 1500mAh 电池 工作时间：4hours, 充电时间：4 hours
尺寸	300mm×140mm×225mm

⑤ 故障排除

问题	解决方法

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CE FC RoHS

LCD digital microscope
User's Guide
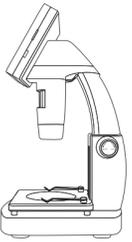
Important Note

Thank you for purchasing a LCD Digital Microscope. Please take a moment to read through this manual. Its contents will help you to get the best use of the smart microscope.

Before using the LCD Digital Microscope, please ensure that you read and understand the safety precautions described below. Always ensure that the LCD Digital Microscope is operated correctly.

1. Keep LCD Digital Microscope away from water and other liquids. Do not use LCD Digital Microscope with wet hands. Never use LCD Digital Microscope in the rain or snow. Moisture creates the danger of fire and electric shock.

2. If you notice smoke or a strange odor coming from LCD Digital Microscope, turn the power off immediately.

3. LCD Digital Microscope may become slightly warm during use. This does not indicate malfunction.

4. If the exterior of LCD Digital Microscope needs cleaning, wipe it with a soft, dry cloth.

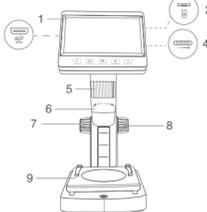Keep away from liquids　　Stay away from the flame　　Please use dry cloth for cleaning

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① Preparation

(1) Standard accessories
1. LCD Digital Microscope　　3. Cleaning fabric
2. USB cable　　　　　　　　4. Operation guide

(2) Parts Names & Functions

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① 4.3 inch LCD display　　⑧ Wheel A
② MicroTF card slot　　　⑨ Object stage
③ HDMI interface　　　　　⑩ Capture button
④ LED brightness dimmer　⑪ Reset hole
⑤ Focusing wheel (Wheel B)⑫ DC 5V in
⑥ Microscope tube　　　　⑬ Charging indicator
⑦ Wheel C

(3) Function introduction
1. MicroTF card slot：Support MicroTF card (not equipped with this unit) up to 32GB, including FAT, FAT32 two file formats.
2. Micro usb：DC 5V power supply and data transmission.
3. HDMI high-definition interface: HDMI video transmission.

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4. Power on/off：Short press the power button to enter the file playback mode, long press the switch machine.

5. Photograph：Short press to take a photo, long press the video, then press once to stop recording.

6. Menu Setup：Short press to enter the menu page. Here you can set the Language / LCD Bright / Date and Time /Screen Saver /Power frequency/ Format / Derault Setting / FW Version.

7. Zoom in/Right：Photo mode, short press to zoom in, other modes, move up or left.

8. Zoom out/Left：Photo mode, short press to zoom out, other modes, move down or right.

9. Confirm：Short press to confirm, long press to rotate.

10. LED brightness adjustment: Enhance light upwards, weaken light downwards.

11. Focus adjustment wheel：Rotate this wheel to adjust to a clear image, 50x and 1000x two clear interfaces.

② Steps for usage

(1) Standard mode
1. Insert the MicroTF card (not equipped with this unit) into the MicroTF card slot; press gently until the card is locked (Note: MicroTF cards must be inserted to record and store pictures and videos).
2. Long press on/off button, turn on the device.
3. Put object to be observed onto the object stage, Rotate Wheel A to bring the object near to the microscope tube.
4. Rotate the wheel B left and right to obtain fine focus.
5. When a clear focus got, rotate Wheel C clockwise to lock the object stage.
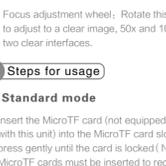
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(2) U disk storage mode

Connect the microscope to your computer via a USB cable, turn on the device, select the "mass storage" mode, and view the stored photos and videos on your computer.
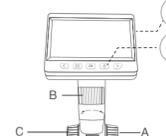
(3) PC mode

Note: The device button function is no longer active when working in PC mode.

Windows system：
A. Download and install the pieces from the link below：www.inskam.com/download/PC.zip

(The browser used is for reference only, you can do it according to your existing browser)

B. Turn on the device and connect the device and computer terminal through the data cable, select PC Camera mode.

C. Open "Smart Camera", click on the device in the settings, as shown below.

(Specific parameter settings can refer to the picture content)

Mac system :
A. Turn on the device and connect the device and computer terminal through the data cable, select PC Camera mode.
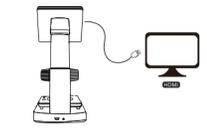B. Open the "Photo Booth" software in the Apple App.
C. Click on the Camera and switch the camera as shown below.

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(4) HDMI mode

Connect the microscope and HD display with HDMI function through HDMI HD cable (not equipped with this unit) , then you can observe the images you see in real time on a high-definition display.

③ Charge Battery

1. Plug the small end of the power adaptor into the DC 5V-in port located on the bottom side of the unit. Then plug the other end of the power adaptor into a standard AC outlet. The battery indicator LED at the end corner of the unit will be in red to show that the battery is charging.

2. When the battery is finished charging, the battery indicator LED will be off, Unplug the unit. The entire charging process takes about 4 hours.

3. You can use your microscope for up to 4-hours of continuous use after full charge. When the battery is low, there will be low-power indicator on the left down corner of the panel, red LED light will become weak and image quality becomes poor. Then you have to connect the power adaptor and plug it in to recharge the battery.

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④ Specifications

Image sensor	2M high quality Image Sensor
Magnifications	50x~1000x
Display	4.3 inches TFT panel, 16:9
Focusing range	0~40mm
Manual	
File format	JPG/AVI
Resolution	2048*1536, 1920*1080, 1280*960,640*480
Data Format	JPG/AVI
Light source	8 LED lights (adjustable brightness)
Frame rate	30fps
Operating system	Windows XP /Vista /Win7/8/10, Mac 10.5 or above
Interface	USB2.0
Lens structure	25xxH
Aperture	F4.5
Lens angle	16°
Language	English / German / French / Spanish / Italian / Japanese / Simplified Chinese / Traditional Chinese / Portuguese / Korean
Power supply	Lithium ion 3.7V / 1500mAh battery Working time: 4 hours, Charging time: 4 hours
Size	300mm×140mm×225mm

⑤ Troubleshooting

Problems	Solution
Does the battery have electricity?	1. Is the battery low?
	2. Is the power supply connected?
Device crash	1. Use the thin pin to insert the back reset hole, restart the device
The screen is blank	1. Confirm that the item is no longer in currents unplugged before the lens
	2. Whether the front angle has been adjusted to an appropriate position
There is smudge or darkness on the screen	1. Wipe the screen and lens carefully with soft fabric
The microscope is connected to the HD display, but there is no image on the screen	1. Recommend the microscope to the HD display and opening the software, then it is running
The microscope is connected to the PC and the TF card can not be recognized	1. Whether is successfully switch to the corresponding video input channel on the HD screen
	2. Confirm whether to enter PC camera mode
The battery indicator LED is not in red, even though the power adaptor is connected and plugged into a wall socket	1. Recommend the microscope and PC
	2. Confirm whether to enter the Mass Storage mode
The microscope is connected to the PC and on the TF card can not be recognized	1. Plugged into the Microscope's DC-in port
	2. Confirm whether to enter the Mass Storage mode
The battery is not charging	1. Ensure that the wall outlet is active
	2. Confirm whether to enter the Mass Storage mode

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