Instruction Manual

SCOUT *Pro*
MICROSCOPE™

Scout Pro Digital Microscope (SCT-PRO)

with 4" Digital Display
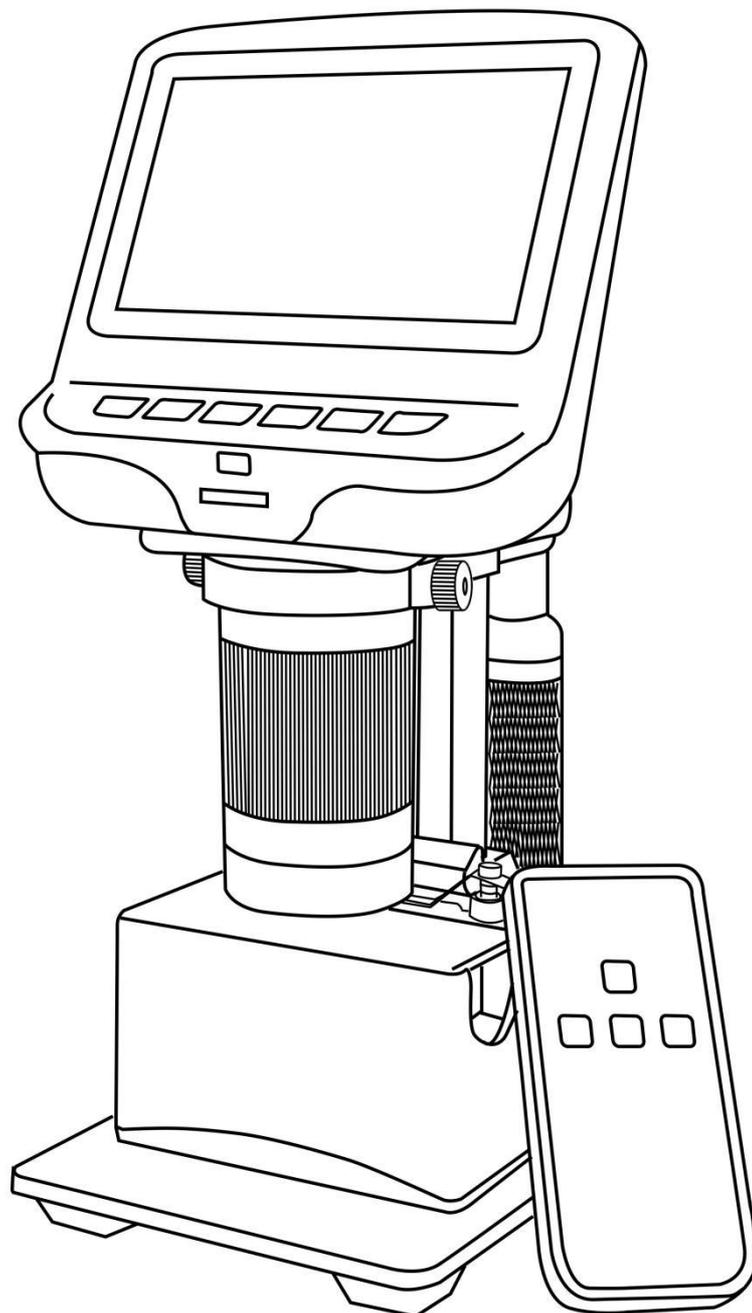
Safety and Maintenance

1. This microscope is safe and low-maintenance.
2. The assembly includes all parts, particularly the thumbscrews used to hold the main device in place. Do NOT allow unsupervised access by infants or toddlers.
3. The Scout Pro Digital Microscope is for indoor use only. It is not waterproof, and should not be exposed to extreme temperatures.
4. The surface of the lens at the bottom of the main device should be cleaned whenever you start to notice a degradation in image quality. Use a few drops of lens-cleaning fluid on lens tissues or use a microfiber cleaning cloth.
5. The rest of the Scout Pro Digital Microscope can be cleaned with a damp cloth.

What's in the Box

SCREEN

DIGITAL MICROSCOPE

DIGITAL MICROSCOPE BRACKET

BUTTONS

BRIGHTNESS CONTROLLER

THUMBSCREWS

FOCUS CONTROLLER

DISTANCE CONTROLLER

LENS COVER

LENS

BASE

REMOTE×1

USB CABLE x1

STAGE BLOCK WITH LED LIGHT x1

ADAPTER×1

LED DIMMER/ POWER CONTROL CABLE
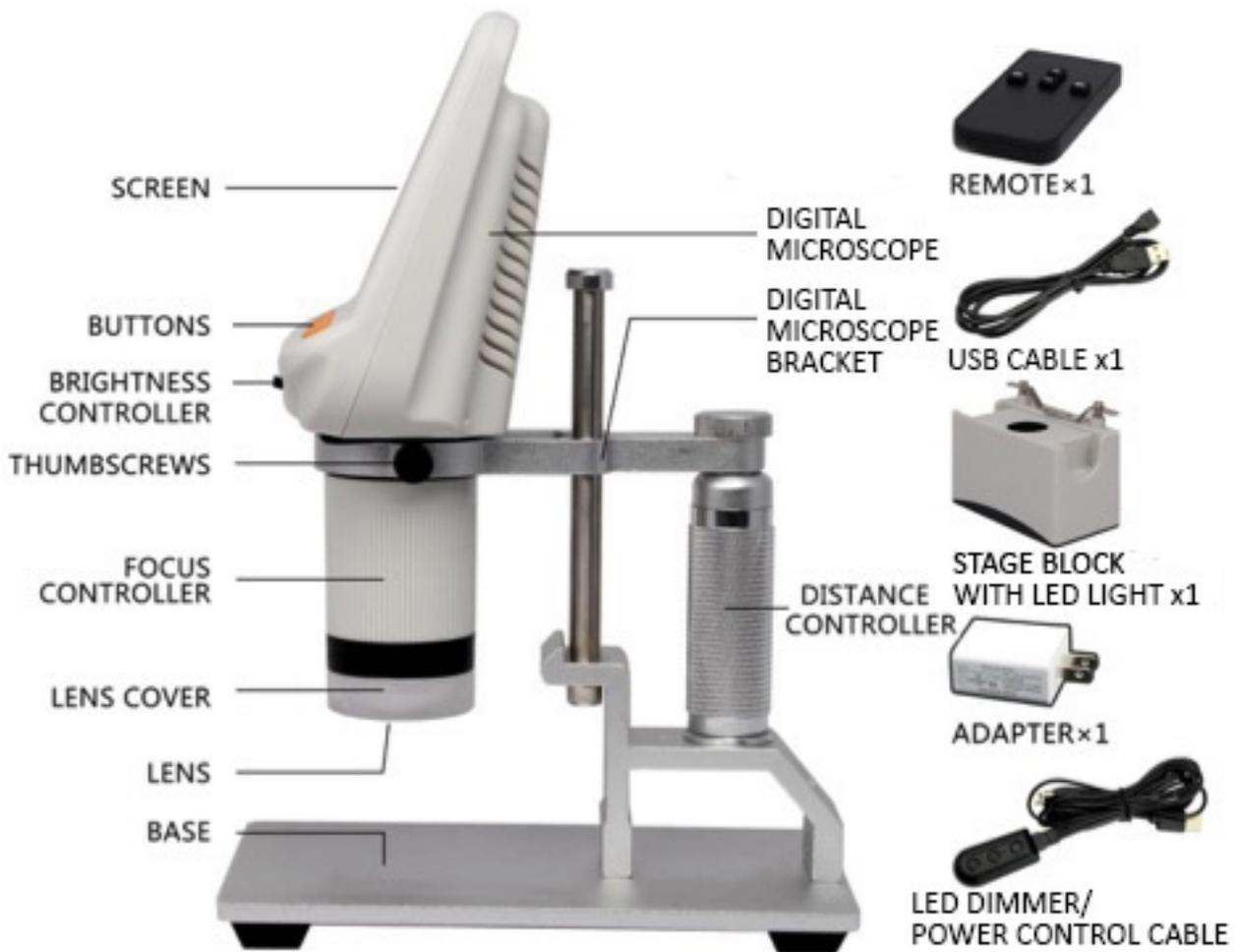
*Also Included are 3 Screws and Allen Wrench

Assembly

Stand Assembly

1. Tighten the three screws at the bottom of the base using provided Allen wrench (see diagram at right).
2. Loosen the small thumbscrews on the Digital Microscope Bracket.
3. Slide the Digital Microscope into the ring of the Digital Microscope Bracket.
4. Tighten the thumbscrews to hold the Digital Microscope in place. If done correctly, you should be able to turn the rigid portion of the Digital Microscope freely while the rest of it remains in place.
5. Remove the protective film from the screen.
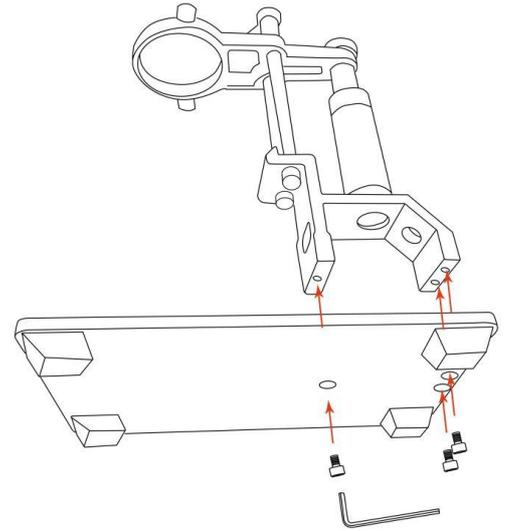
Buttons
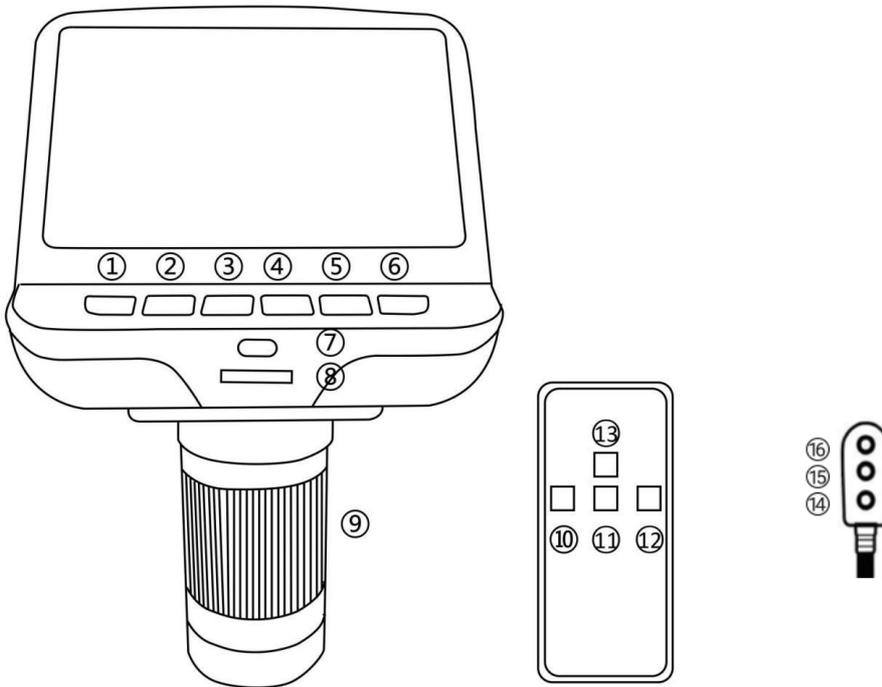
Microscope Buttons
① Power
② Mode
③ Up Select:
   (File Search/Digital Zoom Out/Navigation)
④ Down Select:
   (File Search/Digital Zoom Out/Navigation)
⑤ OK
⑥ Capture (Screenshot Function while Recording
⑦ Infrared Sensor (to use the remote, point towards the IR sensor)
⑧ LED Light Brightness Adjustment
⑨ Focus Controller

Remote Buttons:
⑩ Capture (Screenshot Function while Recording)
⑪ Down Select (File Search/Digital Zoom Out)
⑫ Video/Image Capture (On/Off)
⑬ Up Select (File Search/Digital Zoom In)

LED Dimmer/Power Control Buttons:
⑭ Power On/Off
⑮ Dimmer Up
⑯ Dimmer Down

Icon Definitions

1. ▉◼ Video Mode

2. ▉◼ 00:01 Recording in Session

3. ◉ Screenshot Recorded

4. 🗆TF / 🗆x With/Without Micro SD Card

5. ☻ Still Image Mode

6. ▶ Review Mode

Connection Diagram

Reset

LED Dimmer/Power
Control Cable

Stage Block
with LED Light
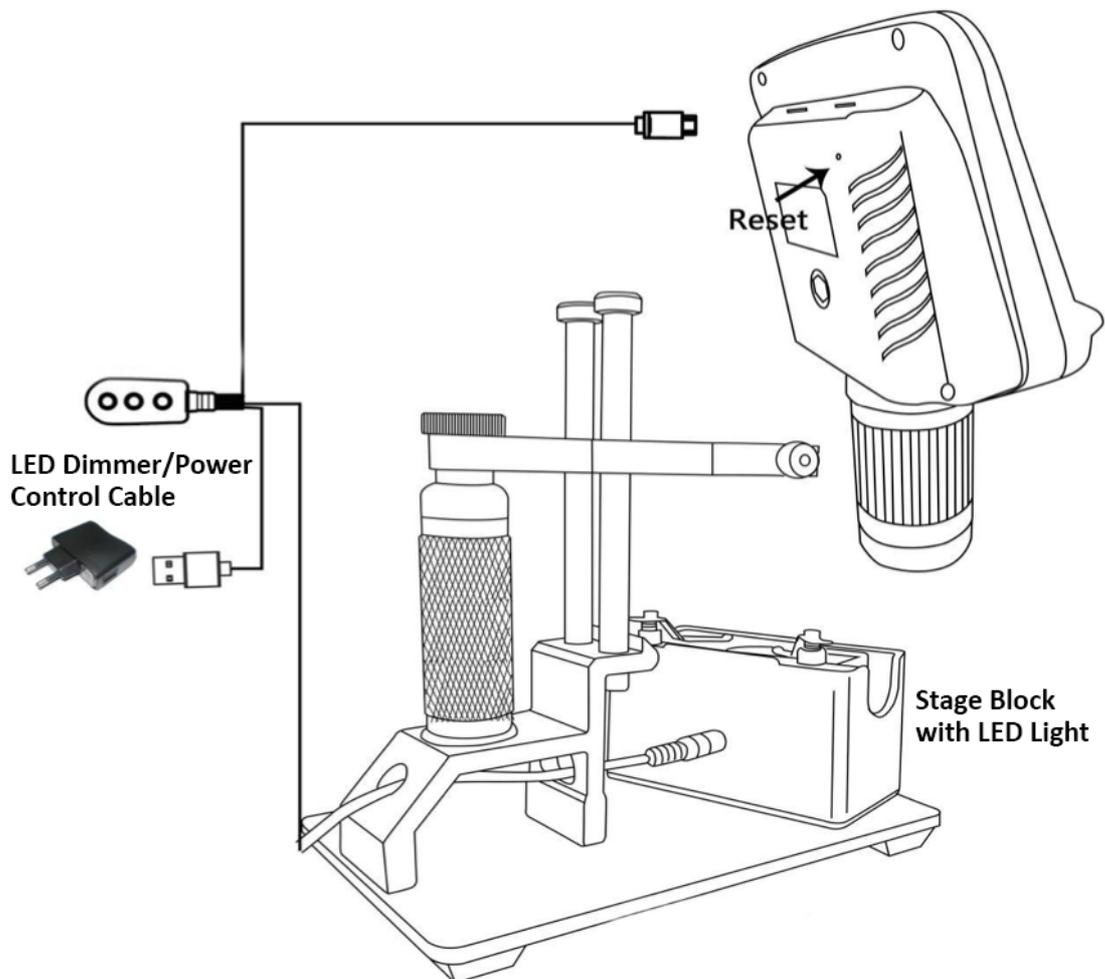
Scout Pro Digital Microscope is compatible with:

- Windows PC
- MAC iOS
- Chromebook

Quick Start

To Display Scout Pro Digital Microscope Without a Computer
1. Connect the Digital Microscope to the power supply via the LED Dimmer/Power Control Cable.
2. Press and hold the Power button (① from the Buttons diagram) underneath the display until the display turns on. The LED Dimmer/Power Control Cable can be used to power on/off the Digital Microscope.

Displaying on a Computer
Connect Scout Pro Digital Microscope to a PC with a webcam using the included USB cable (Note: This is not the LED Dimmer/Power Control Cable). If the PC does not have a webcam, download a free webcam application such as "Camera", "Logitech Webcam Software" or "Yawcam".

To Display Scout Pro Digital Microscope on PC
1. Connect the USB cable to the Scout Pro Digital Microscope and the other end to the PC (Note: This is not the LED Dimmer/Power Control Cable).
2. Select "PC Camera" on the screen menu of the Scout Pro Digital Microscope.
3. Open webcam application.
4. The Scout Pro Digital Microscope will now be displayed on the PC screen.

To Display Scout Pro Digital Microscope on Mac
1. Connect the USB cable to the Scout Pro Digital Microscope and the other end to the Mac (Note: This is not the LED Dimmer/Power Control Cable).
2. Select "PC Camera" on the screen menu of the Scout Pro Digital Microscope.
3. Go to File and select "New Movie Recording".
4. In the new window that will open, click the drop-down arrow near the Record button (Small red circle in a larger white circle).
5. Change the camera setting to "GENERAL - AUDIO".

To Display Scout Pro Digital Microscope on Chromebook
1. Connect the USB cable to the Scout Pro Digital Microscope and the other end to the Chromebook (Note: This is not the LED Dimmer/Power Control Cable).
2. Select "PC Camera" on the screen menu of the Scout Pro Digital Microscope.
3. Open the Camera application.
4. Click the circular icon located at the bottom left of the Camera application.

*Troubleshooting

If the display freezes, locate the "Reset" hole on the back of the monitor. Use a narrow object such as an unfolded paper clip to press the button located inside. This resets all settings to their factory values and restarts the display. It does not erase saved images or videos.

Adjusting Magnification and Focus

● Use the Distance Controller on the Digital Microscope Bracket to raise or lower the Digital Microscope to the desired height. The lower the height, the greater the magnification, but be careful not to let the lens contact the object being viewed.

● Turn the Focus Controller (⑨ from the Buttons diagram) to focus the image.

● To increase the digital magnification, press and hold the Up Button (③ from the Microscope Button diagram or ⑬ from the Remote Button diagram) until the desired digital magnification (up to an additional 5x beyond the optical magnification) is reached.

● Use the Down Button (④ 4 from the Microscope Buttons diagram or ⑪ from the Remote Buttons diagram) to decrease the digital magnification.
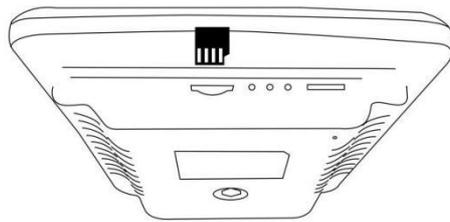
Recording with Microscope (to the Digital Microscope)

You can record images and videos to review later or export to a computer or other device by using a Micro SD Card (not included).

● Insert the Micro SD card in to the Micro SD card slot on top back of the monitor.

● Push it in until you hear a click. A card icon (🔲) will appear.

● The Mode Button (② from the Buttons diagram, marked with an "M") can be used to cycle between three modes: Video (🎥), Still Image (🖼), and Playback (▶).

● In Video Mode, press and release the OK button (⑤) to begin recording (icon will appear 🎥 00:01). The elapsed time will appear at the top left. To stop recording, press and release the OK Button again.

  Note: Do not hold the OK button down while starting or stopping a recording; just press and release.

  ● Press the Capture Button (⑥) to capture images while the microscope is recording. The capture resolution will depend on your video resolution settings (see image settings below).

● In Still Image Mode, press and release the OK Button (⑤) to capture an image. An icon ◉ will appear when an image has been captured.

Recording with Remote Control Using a MicroSD Card

● In Video Mode, press and release the Video/Image Capture (On/Off Button ⑫) to begin recording. The icon 🎥 00:01 will appear. The elapsed time of the recording will appear at the top left. To stop recording, press the Video/Image Capture (On/Off) Button again.

● In Still Image Mode, press and release the Video/Image Capture (On/Off Button ⑫) to capture an image. An icon ◉ will appear when an image has been captured.

● Press the Capture Button (⑩) to capture images while the microscope is recording. The capture resolution will depend on your video resolution settings (see image settings below).

Video/Image Settings

- To enter Video/Image Settings, go to video mode, press the Menu button, and hold for approximately 2 seconds until the Menu shows up on the display.
- To exit Video/Image Settings, press the Menu button.

Resolution: Two options: HD (1280x720) or FHD (1920x1280).
Image Quality: Six options: 1M/2M/3M/5M/8M/12M (Resolution ranges from 1280x720P to 4032x3024P).
White Balance: Five options: Auto, Sunlight, Cloudy, Tungsten or Fluorescent.
EV: Exposure compensation from +2 to -2.
Calibrate: Three options: Off, Cross net or Double cross net.
Language Setting: English as well as 13 different languages.
Flicker: Two options: 50Hz or 60Hz.
Format: Use this function to format the Micro SD card (be sure to export and save all files that you need <u>before</u> formatting, as all data on Micro SD card will be lost).
Reset System: Reverts back to factory values.

Managing Saved Files (Delete/Lock/Unlock)

- To manage saved files, enter playback mode by pressing the Mode Button until the Playback Mode icon is visible.

- Use the Up Select and Down Select buttons from the Microscope and Remote to cycle through the files.

- To play a video (AVI), press and release the OK button from the main unit or the Video/Image Capture button from the remote. Press and release the OK button or the Video/Image Capture button again to pause.

- While reviewing a still image or video, the Mode Button can be used to provide additional options. Press and hold the Mode Button for approximately 2 seconds to access additional options:

Delete: Deletes selected file
Delete All: Deletes all unlocked files
Lock This: Prevents the current file from being deleted (not protected from **Format** function)
Unlock This: Unlocks the current file
Unlock All: Unlocks all files

- Press the Mode Button again to exit from additional options.

Product Registration Instructions

1. Visit: www.HamiltonBuhl.com
2. Click on Product Registration Form
3. Please fill out all fields marked with * to register your product

Warranty

Warranty begins the date item ships from our warehouse.
All products have a one-year warranty from original date of shipment,
unless otherwise noted.

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