UNITRON®

AU-500-MADM

Mini Automatic Digital Microscope

Micro Capture Imaging Software

MANUAL

73 Mall Drive, Commack, NY 11725 • 631-543-2000 (P) • 631-589-6975 (F)
www.unitronusa.com • info@unitronusa.com

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Chapter I: Introduction

1.1 Safety warnings and precautions

1) To avoid danger or damage incurred to the lens, do not touch the lens and LED part directly with your fingers.

2) To avoid failure or electric shock hazard and so on, do not disassemble or modify the internal structure of the device.

3) Do not plug in or unplug the connectors when the hands are wet.

4) Do not use alcohol and other organic solvents to clean the device.

5) If the lens is dirty or damp, you should better use the dry and non-linen fabric or professional lens tissue to wipe it. To avoid scratches on the surface, do not touch the lens with your fingers and wipe the lens lightly.

6) The products are not specifically designed for an outdoor use. Do not expose it to outdoor environment without any protection, because the excessive temperature and humidity will damage the lens.

7) Please store and use in the following environment: Temperature: 0℃～40℃; relative humidity: 45%～85%

8) If there is any foreign matter / water or liquid enter into the device by accident, please disconnect the USB interface immediately and send it to the maintenance center and do not use the hair dryer to dry it by yourself.

9) To prevent being tripped over or dropping the Mini Microscope, please put away the Mini Microscope's USB cables.

10) To avoid electric shock by accident, please unplug the Mini Microscope from PC before you move the PC.

1.2 Your Micro Capture

Zoom in/out: Zoom in and out of the observed object size

Autofocus: Press this button can automatically focus.

Brightness level: According to personal preferences, the brightness could be, in turn, chosen as 100% - off - 16% - 33% - 50% - 66% - 83% - 100% circularly

Microphone: Built-in microphone to record the note of verbal analysis.

1.3 Installation instructions

Step 1: Start the computer and put the installation disk into the CD-ROM

Step 2: Enter CD-ROM, then select "KoPa_Capture_Setup.msi" file, and it will remind you to choose the software language.

Select the menu and choose your favorite language.

Tip: Different language of the operating system maybe have difference choice of the program language, it associates with the installed language pack in the system. The default language is the operation language.

Step3: When appears below window of the setup, then click “next”.

Step4: Read the license agreement carefully in this step, if you do not accept the license agreement, click “cancel”, and it will exit the setup. If you accept this license agreement, select “I accept the agreement”, and click “next”.

Step5: Select the installation path, click “browser” to choose your installation path, click “Next” to continue the installation.

Step6: select the path and the name of the program shortcut which will appears in the star menu. Click “next” to continue.

Step7: Choose whether to create desktop shortcut, and click “next”.

Step8: Confirm the installation information, then click “Install”.

Step 9: The program had been installed successfully, when you see the flowing dialog box. Click “Finish” to confirm the installation.

Step10: When the Mini Microscope is connected to the PC, "Found a New Device" will appear on the screen, the driver installation will be completed by the system automatically.

Step11: Run "Micro Capture" on the desktop or from "Start"→"All Programs", the main window appears as below.

Tips 1: Make sure that the Mini Microscope has been connected with the computer before you run the “Micro Capture” at the first time. If your computer has more than one USB port, the system may prompt you to install the device again, when you plug into the difference USB ports. Also the system will complete the installation automatically.

Tips 2: Please close the "Micro Capture" program first, before unplug USB from the computer.

Chapter II：Functions of device

When the “Micro Capture” is running, click “Select Device” from the menu, select “Mini Microscope M101”, then you can check the object in the preview window.

2.1 Turn off device

Click “Select Device” from the menu, select “Turn off device”, the running device will be closed and preview frame will become gray.

2.2 Select device

Click “Select Device” from the menu, select the device that you need, for example: “Mini Microscope M101”.

Tips 1: The name of device under “Select Device” menu is identified by the system automatically. The identified names may vary under different operation systems. In general， it is identified as “5 Mega Pixels USB Camera” under the Win 7 and Vista in English operation system; It is identified as “USB video device” under the XP in English operation system.

Tips 2: “Micro Capture” can connect with multiple Mini Microscopes at the same time, but only one device can be run at each time. If you want to switch to another device, you should turn off the running device before you run another.

Tips 3: Do not detach the device before you close Micro Capture.

Chapter III：Micro Capture Settings

It has two options in the following setting menu.

3.1 Hardware parameters

Turn on auxiliary illumination: Turn on/off Mini Microscope LED lights.

Turn on audio: Turn on/off the Microscope's shutter sound.

Audio volume: Modulate the shutter sound of the Mini Microscope.

Audio input device: It is used to select the microphone device associated with the audio device. If your computer is installed with other audio devices, you may have more options. For the better results, we suggest to use the microphone device with Mini Microscope.

Tip 1: The name of audio device under “Hardware parameter” is identified by the system automatically. The identified names may vary under different operation systems. In general， it is identified as “Microscope(USB Microphone)” under the Win 7 and Vista in English operation system; It is identified as “USB Microphone” under the XP in English operation system.

Audio input line: It is used to select the sound quality when recording the audio with the microphone. High-quality audio needs a large sample rate and more storage space.

Standby time: This mode can make the Mini Microscope enter into the standby mode when there is without any operation in the UI, the unit is minute, the range is from 0 to 256, the default value is 10 minutes.

Tip 1: When the value is 0 minute, the standby mode will close, If you do not want to enter into the standby mode, you can set the value as “0”.

Tip 2: “Standby” and “wake up” , in this case, they are only apply in UI, but not apply in the Mini Microscope. That means, if you have actions on the Mini Microscope in the set time, but no operation in UI, it still will enter into the standby mode.

Tip 3: If you need to exit the standby mode, you need to wake it up from UI, but not from the Mini Microscope.

3.2 Options

The settings of snapshot and video recoding

Image resolution: There are two options in image resolution: 2592x1944 and 800x600. When you select 800x600, the picture is the same as you see in the preview window. 2592x1944 can capture the whole view size of lens, if you zoom in/out, and the image that you capture will not the same as you see in the preview window. The default resolution is 2592x1944.

Video resolution: There are four resolution options for recording video: 640x480, 800x600, 1024x768 and 1280x720(720P).The higher resolution, the better quality, which also needs more storage space. The default resolution is 640x480.

Shutter sound: Turn on/off the shutter sound.

Name of image: It allows you to add a prefix in the image name**,** the date and time will be added into the file name automatically, which will match the current date and time with the computer by the computer program, which makes it more convenient to storage and management.

Tip 1: The default location path is in the "Image " under the "Program Files" folder, "C:\Program Files\Micro Capture\Image".

Tip 2: Please create a new folder first, the pop-up file is not support to create a new folder.

Tip 3: The default format is JPG, if you need to save in other format, please use "save as".

Name of Video: It allows you to add a prefix in the video name**,** the date and time will be added into the file name automatically, which will match the current date and time with the computer by the computer program, which makes it more convenient to storage and management.

Video path: Click the " " icon, pop open a "Select folder", you can choose the path for the file.

The size of the duration of the recording: When the recording reaches the end of its designated time period it will automatically stop, also you can stop it under the designated time by yourself. The unit is minute, it can be set from 1 to 256, the default value is 10 minutes

Chapter IV: Image preview

Image preview page includes: preview window, settings window.

4.1 preview window

Real-time display the detection image on preview window, easy for the user to check the object

You can get a better view and have a full-screen to preview, when you double-click the left button of the mouse.

In the case of full-screen preview, you can click the right button of the mouse: According to the screen ratio, keep the video size ratio, or Esc the full screen.

4.2 Image control module

Zoom in/out: The image can be zoomed in/ out by pressing the zoom in/out button from the UI or device. Default is the smallest state.

Image moving: The view of preview real-time image can be moved at the corresponding direction by the four arrows via the software or directly click the left button of the mouse in the preview window

Real-time AF / Manual focus: It is used to select the focus mode. When the manual focus option is not ticked, you can make it AF by yourself via the “Manual Focus” button or the button on the device .Or it will stay in the AF status, and AF at any change by itself. The default option is manual focus.

Manual focus: When pressing this button, the observed object will be automatically focused. In this scenario, **"**Real-time AF / Manual focus" button is unavailable.

AF fine-tuning: It is used to coordinate with "manual focus". If manual focus results cannot satisfy you. You can use "+" or "-" button to get a better result. When ticking "real-time AF / manual focus", these buttons are unavailable.

Tips 1: The definition of the picture greatly depends on the position of the Mini Microscope. For the tall object, Mini Microscope allows you to raise one or two legs to focus and observe the objects.

4.3 Image parameter modulating module

Parameter modulating: According to the characteristics of the observed objects or personal preferences, you can adjust the brightness, contrast, hue, sharpness, backlight contrast auxiliary illumination brightness and other parameters to achieve the best results. Adjustable parameters are only valid for the current observation, device reopening will resume to the default values. If you want to save the modulating parameters, please follow below mode to save and recall .

Save parameters: The parameters can be modified according to personal preference. It will make the operation more convenient, when it is saved as a mode. Operation: Select "custom" and click "save" after modifying the parameters. The parameter will be saved and you can invoke it at any time.
Parameter call: In the "Mode", you can select the parameter that you need, click "Read Mode", then the parameter can be invoked.

Chapter V: Snapshot and video

5.1 Snapshot:

You can choose one of the following ways to take a picture:

- Click the capture icon on icon bar

- Press the capture key on the Mini Microscope.

Tips1: The resolution of image depends on the setting of the image resolution option.

Tips 2: The default saving path of the image is the same as installation path for the software. If you want to save it in other place, please click “save to”.

5.2 Video recording

Click the video icon on icon bar:

Click the video icon to stop recording whenever you want.

Tips 1: The video resolution depends on the setting of video resolution option.

Tips 2: The default saving path of the video is the same as installation path for the software. If you want to save it in other place, you need to click “save to”.

Tips 3: To record a video needs a large storage space, make sure that your computer's hard disk storage space is adequate.

Tips 4: In order to get a high-quality sound record, please keep your mouth close to the microphone of the device.

Chapter VI: File management

6.1 Image and video Checking bar

Open file: Open and check the image through the systems explorer.

Save file to: Save the image to the specified path, file name and file type. File type including: bmp, jpg, ico.

Copy image to clipboard: Copy the image into the systems clipboard and share it to other application.

Zoom in and zoom out: To zoom in or zoom out the current image.

Full size: To show the image in the original capture resolution.

Fit size: To show the image in fit size of the Browser Window.

Open image save path: Press this button to save the image to the default save path. When you are checking the image in other directory. Press this button can help you back to the default save path quickly.

Open video save path: Press this button to save the video to the default save path. When you are checking the video in other directory. Press this button can help you back to the default save path quickly.

6.2 Image directory

It is used to select the image directory.

6.3 Image windows

It can show the all images under the images directory, click or double-click the image you want to check. You can rename the image under the selected state.

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DIGITAL CAMERAS FOR MICROSCOPY

This digital camera is warranted to be free from defects in material and workmanship for a period of one (1) year from the date of invoice to the original (end user) purchaser. This warranty does not cover damage caused in-transit, damage caused by misuse, neglect, abuse or damage resulting from either improper servicing or modification by other then ACCU-SCOPE or UNITRON approved service personnel. This warranty does not cover any routine maintenance work or any other work that is reasonably expected to be performed by the purchaser. No responsibility is assumed for unsatisfactory operating performance due to environmental conditions such as humidity, dust, corrosive chemicals, deposition of oil or other foreign matter, spillage or other conditions beyond the control of ACCU-SCOPE INC. or UNITRON Ltd. This warranty expressly excludes any liability by ACCU-SCOPE INC. or UNITRON Ltd for consequential loss or damage on only grounds, such as (but not limited to) the non-availability to the End User of the product(s) under warranty or the need to repair work processes. Should any defect in material, workmanship or electronic component occur under this warranty contact your ACCU-SCOPE distributor or ACCU-SCOPE at (631) 864-1000. All items returned for warranty repair must be sent freight prepaid and insured to ACCU-SCOPE INC., 73 Mall Drive, Commack, NY 11725 – USA. All warranty repairs will be returned freight prepaid to any destination within the Continental United States of America. Charges for repairs shipped back outside this region are the responsibility of the individual/company returning the merchandise for repair.