

NOTICE

IMPORTANT SUPPLEMENT TO DOCUMENTATION FOR MODELS DC3-156-S, DC3-420TH, DC3-163 AND DAC-3

Contents of this brochure cover certain enhancements to the software that are not covered in the original documentation that is included on the software CD "Quick Start Guide" manual, as well as additional trouble shooting procedures. **Please read this before** beginning installation and use of the software.

- Software Installation.....See Below
- White Balance Enhancement.....See Below & Page 2
- If you are unable to obtain an Image.....Page 2
- Installing Macintosh J1.0 Software.....Page 3

NOTICE

To access the Motic Images 2.0 ML Quick Start Guide located on your CD, please use your Acrobat Reader on your desktop and open the following PDF file.

D:\Manual\MIPlus20_en.pdf

For additional information about "Motic Images " software, including any available upgrades, please refer to the following web site:

www.motic.com

If you have specific questions, or any problems, in loading and using the Motic Images 2000 software, you may call Motic toll-free tech support at (877) 901-4141.

- **SOFTWARE INSTALLATION:** Software will automatically load when using Windows 98 and above, please follow on screen instructions.
- **DRIVER INSTALLATION:** Drivers should load automatically once your microscope camera is plugged in. All drivers for this camera can be found on your CD under D:\drivers\AD640 folder. Drivers for this camera will load twice, once for the camera and once more for the capture device.
- **SOFTWARE INSTRUCTIONS:** For instructions using Motic Images Software please refer to the help menu located at the top right of the Motic Images window.

WHITE BALANCE ENHANCEMENT

This digital microscope incorporates an improvement that is not covered in the enclosed instruction brochure or Motic Images 2000 software documentation.

The incandescent illumination provided in your microscope can cause the light to have a yellow cast. While the image being viewed may appear satisfactory, the yellow cast from the illumination will somewhat distort the true colors of the specimen. A "White Balance" button is located on the top surface of the head of the microscope. It is not essential to utilize the "White Balance" in order to use your digital

microscope, but using this feature will enhance the color clarity and the quality of the images obtained. Follow the procedure below to calibrate your digital microscope for this white balance enhancement.

- (1) After you have followed the instructions for loading the software and connecting the digital microscope to your computer, put the calibration slide onto the stage. Follow instructions in the software documentation to calibrate the measurement function of your digital microscope.
- (2) Now, while you still have the calibration slide on the stage, move the slide until the "dot" is outside the field of view, but the blank glass portion of the slide still remains within the field of view.
- (3) Press on the "white balance" button for 2 seconds. This completes the white balance correction procedure. Basically, this tricks the camera into turning the "yellow" light being picked up by the camera into a white light. You will observe on the computer monitor that the image has become "whitened."
- (4) Note: You may need to repeat the white balance correction procedure if you do one of the following:
 - (a) If you adjust the rheostat light intensity control, and then find the color of the image to be distorted to an extent not acceptable to you, or
 - (b) You change the specimen to one that has a significantly different depth of color or color contrasts.

It is not essential to utilize the "White Balance" in order to use your digital microscope, but using this feature will enhance the color clarity and the quality of the images obtained.

IF AFTER COMPLETE INSTALLATION OF YOUR MOTIC IMAGES 2000 SOFTWARE AND CONNECTION OF MICROSCOPE TO COMPUTER, YOU ARE UNABLE TO OBTAIN AN IMAGE OF THE SPECIMEN BEING VIEWED (image window is completely black).....

Please follow each of the following trouble shooting procedures until you are able to see an image of the specimen appear in the Live Image window after clicking mouse on the camcorder icon. If any of the following options permits you to obtain a specimen image in the image window, it should not be necessary to proceed further with the remaining options. Please be aware that the USB drivers for this Camera can be found on the Motic Images 2000 CD: D:\Driver\AD640

1. First click on the Camcorder Icon on the top of the Motic Images 2000 screen. This will open the Motic DS Capture Window. At the top of this window you will see "device" on the top right hand side. Select "device" and a drop down menu will fall. Make sure the "AD640" has a check next to it. If it is not, reselect. If the "AD640" is not listed, then the driver for this microscope must be installed.
2. If your computer has other USB devices already installed, it is possible that it will not recognize the proper USB device for capturing your microscope images. A "Code 10" error will display. Please disconnect any other USB device from the computer until the Digital device is installed.
3. Make certain that the green LED indicator light and red camera power switch button is illuminated. Depress camera power switch button to turn camera on.

This point "2" pertains to DC3-163 and DC3-420TH models only. Make certain that the sliding rod on the microscope head is fully extended out. If the rod is left in the "in" position, the image is not being allowed to reach the camera.

Model DC3-420TH stereo microscope has a two-position rod: fully pushed in, image directed through the eyepieces; fully pulled out, image directed to the camera.

Model DC3-163 has a three-position rod: fully pushed in, image directed through the eyepieces; pulled out mid way, image directed to the camera; pulled out all the way, image directed 70% to camera and 30% to eyepieces.

INSTALLING MACINTOSH J1.0

For use with MacOS 9

(Included with all “DC3” camera 3 models)

Note: Do not plug USB cable into your computer until all software and drivers have been loaded

1. Please insert CD into the CD-ROM driver
2. CD should run automatically. If not, please double click the CD icon on the desktop and double click “install” to install Motic Images J 1.0. (The install extracts into the temp directory on the user’s system. If the space on the temp directory in your computer is not enough, the installation will cause errors.)
3. If this occurs, please open setup folder.
4. Open MacOS folder.
5. Double click “install” to install Motic Images J 1.0.
6. For J1.0 to operate properly, you must install a full version of QuickTime player 5.0 (or later)
(free download available @ www.apple.com)

Installing J1.0 Drivers

1. Once you have successfully installed the J 1.0 software
2. click on the “MJ10” CD icon
3. Click on the Mac “drivers” folder
4. Decide which driver you need:
Camera 3 driver needed for National models: DAC-3/DC3-156-s / DC3-163/DC3-420TH
5. **DO NOT INSTALL THE M300 OR THE MC350 DRIVERS. DOING SO CAUSES SYSTEM CONFLICTS**
6. Click on the appropriate driver (camera 3)
7. Click “continue”
8. Click “accept”
9. Select “easy install” (If you wish to uninstall the driver, please select the “uninstall” option.)
10. Click “continue”
11. Computer will restart
12. Driver installation finished

For further help with installation

1. Click on the “MJ10” CD icon
2. Click on the “Manual” folder icon
3. Click on the “quickstart.pdf” icon
4. This opens the quick start guide which gives more in depth information

After all software and drivers have been installed, plug the USB cable into the CPU (keyboard USB ports do not supply enough power). You may now begin using your National digital microscope or camera.