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Note:
The intention of this guide is to provide quick instructions to key tasks of the Motic Images Advanced software. If more detail is needed, or what you are looking for is not contained in this guide, please consult Help that comes with your software or visit our website http://www.motic.com.
Installing the Software

Before installing Motic Images Advanced 3.1, please read this chapter carefully, and perform setup by following the step-by-step instructions.

Preparation for Software Installation

1. IEEE 1394 card is installed.
2. Get your Motic microscope ready, and check that the cable of MoticTek Equipment (DMB5, Moticam1300) is NOT connected to the IEEE1394 port of the computer.
3. MoticTek Equipment (DMB5, Moticam1300) is powered up.

Installing the Motic Images Advanced 3.1

Follow the instructions outlined below to install the Motic Images Advanced 3.1 under the Windows 98SE (or higher) or Windows 2000 operating system.

Insert the CD-ROM into your CD-ROM drive, the setup wizard appears automatically.

The Motic Images Advanced 3.1 Installer prompts Setup being processed.

Please get ready for installation as the installer informed, and click “Next”.

Welcome to the InstallShield Wizard for Motic Images Advanced 3.1

The InstallShield Wizard will guide you through the rest of the setup process. Please wait.

Exit Next Cancel
To install Motic Images Advanced 3.1, you must accept all the terms of the Software License Agreement. If you do agree, please click “Yes” to continue. If you do not, please click “No” and the installation will be cancelled.

Please fill in the blanks with your name and your company name before continuing with the installation process. Click “Next”.

The Choose Destination Location dialog box will appear. Accept the default destination path “C:\Program Files\Motic\Motic Images Advanced 3.1” or click “Browse” to select your own path. Then click “Next”.

Select one of the 3 Setup types to install; before file copying starts, you may review or change the settings by clicking “Back”, and begin program installation by clicking “Next”.
Accept the default program folder “Motic”, or specify a different folder by entering your own folder name or selecting from an existing folder, and click “Next”.

If you haven’t installed the DirectX8 Runtime Library yet, the DirectX8 Runtime Library will be installed automatically. Otherwise the installation interface of DirectX8 Runtime Library will not appear.

After the installation of DirectX8 Runtime Library, copying of program files to your computer will begin.

When all the program files have been copied to your computer, please click “Finish”. It is highly recommended that you restart your computer.
Driver Installation and Driver Upgrade

Installation of MoticTek Equipment (DMB5・Moticam1300, for other devices, such as Moticam1350, Moticam1351, please select the driver according to the instructions on the CD case) Driver on Windows98

Before the Installation of MoticTek Equipment (DMB5・Moticam1300) Driver, please assure that the IEEE1394 card has been installed (refer to the next chapter Installation of IEEE 1394 Card and Driver. After install the IEEE 1394 Card, close all the application programs and restart the computer.)

After restarting the computer, please connect MoticTek Equipment (DMB5・Moticam1300). Connect the cable to the IEEE1394 port of the computer, the following dialog box will come out. Click the “OK” button.

Insert Win98 CD-ROM, Please click “Browse”.

Select the “Win98” Folder of CD-ROM, and click “OK”.

Click “Yes” and then three similar dialog box will appear.
Upgrade MoticTek Equipment (DMB5, Moticam1300) on Windows 98

If you do not install the driver according to the instructions above, images will not be seen through the MoticTek module. Please refer to the following instructions.

Click “Start”.
Select “Setting\Control Panel”

Click “System\Device Manager”

Double click “VITANA Motic 1394 Camera” in “Other devices”
Click “Driver\Update Driver”

Click “Next”.

Select “Search for a better driver…”, and click “Next”.

Select “Specify a location”, and click “Browse”.

Click “Driver\Update Driver”
Choose “M1300” in “Driver” in the CD-ROM (or other devices, such as Moticam1350, Moticam1351, please select the driver according to the instructions on the CD case), and click “OK”. Then click “Next”.

Click “Next”.

Insert “Win98” CD-ROM, and Click “OK”.

Click “Browse”.

Select “Win98” in the CD-ROM, and click “OK”.
Click “Finish”.

Click “Yes”, and restart the computer.

**Installation of IEEE 1394 Card and Driver**

(If your microscope does not provide resolution up to 1.3 million pixels, please skip this section.)

The following picture shows the installation location of IEEE 1394 card in a desktop computer, the PCI slot as the arrow pointed, to which you can insert the contact footing of the said card.

Press down the card into the PCI slot with the input sockets plate attached to the sockets panel of your computer (usually at its back).
After installing the IEEE1394 Card, the system looks for the card automatically. Click “Next”.

Click “Next” after selecting “Search for the….”.

Click “Next”, the system searches for the driver automatically.

Click “Next” after selecting “The updated driver….”.
Click “Next”.

Click “Finish”.

**Installation of MoticCap L3 Driver**

(If you haven’t purchased a capture card from us, such as L311, L312, L320 etc, please skip the following text.)

The figure on the left shows the installation location of MoticCap L3xx, the PC1 slot, to which the contact footing of the said card is to be inserted.

Press down the card with the input sockets plate attached to the sockets panel (usually at the back) of your computer.
Click “Next”.

Choose “Search for a …”, click “Next”.

Select “Specify a location”, and click “Browse”. Choose “MoticCapL3” in the CD-ROM drive and click “OK”.

Click “Next”.
Click “Finish”.

Click “Next”.

Choose “Search for a better….”, and click “Next”.

Select “Specify a location”, and click “Browse”.
Choose” MoticCapL3” in the CD-ROM drive and click “OK”.
Click “Next”.
Click “Next”.

Insert Windows 98 Second Edition CD-ROM, and then click “OK”.

Click “Finish”.

“Unknown Device” appears automatically.
Click “Next”.

Choose “Search for the best driver for….”, and click “Next”.

Click “Next”.
Select “Specify a location”, and click “Browse”, and select “MoticCapL3” in “Driver” in the CD-ROM.

Click “Next”.

Click “Finish”.

Restart your computer by clicking “Yes”.

**USB Driver Installation on Windows 98:**

Connect the USB cable to the computer USB port, the following dialog box will appear on the screen: Click “Next”.
Choose “Search for the …”, click “Next”:

Choose “Specify a Location”, and click “Browse”.

Choose “2e” in “Driver” in the CD-ROM, if your microscope system is Camera 2 (or other devices, please select the driver according to the instructions on the CD case), and click “OK”. Then click “Next”.

Click “Next”.
Insert Windows 98 Second Edition CD-ROM, and then click “OK”.

Click “Browse”, select “Win98” in the CD-ROM, and click “OK”.

Files are being copied to your computer.

Click “Finish”:

**USB Driver Installation on Windows 2000:**

Connect the USB cable to the computer USB port, the Found New Hardware dialog box appears.

Insert Motic Images Advanced 3.1 disk, and click “OK”.
Click “Next”.

Insert Motic Images Advanced 3.1 disk, and then click “OK”. Click “Finish”:

Files are being copied to your computer.
Choose “Search for the…”; click “next”.

Select “Specify a Location”, and click “Next”.

Click “Browse”.

Choose “2e” in “Driver” in the CD-ROM, if your microscope system is Camera 2 (or other devices, please select the driver according to the instructions on the CD case), then click “OK”.

Click “Next”.
Click “Yes”.

Click “Finish”.

**Precise Calibration**

Calibration is a very important step before you using the measure system of Motic Images Advanced 3.1. It should not be skipped and should be considered and taken at the beginning of operating this software.

It will assure the accuracy of your measurement.

Click on the drop-down arrow at the right of the Calibration button in the Measure tool bar will display the following drop-down menu.

Select the Calibration Wizard command and it will bring up the Calibration Wizard window. To choose the method of calibration, please press the corresponding tag.

Motic Images Advanced 3.1 provides three methods of calibration, Calibration with Circle, Calibrate with Scale Cross and Calibrate with Scale Line.

1. **Calibrate with Calibration Circle**

   (i) To calibrate with calibration circle, first select the Calibration Wizard command, then you'll get the Calibration Wizard window. Press the tag of **Calibrate with Calibration Circle** to display the corresponding tab.
Click “Load Image” will bring up the Open Image files dialog box, wherein you can choose images with calibration circles to calibrate. Click “Open”, the image you have chosen will be loaded.

( ii ) Confirm the objective lens used to capture the selected image, then input the diameter of the calibration circle. Click “Calibration” and the precise calibration will be finished.

**Note:**

Use the appropriate calibration dot slide and magnification to suit your microscope.

( iii ) The Save Sign? dialog box will be displayed when you click “Calibration”. Click “Save” in the dialog box, the result of calibration will be saved, so that it can be used in measuring.

( iv ) When the calibration is finished, click “Close” to end the Calibration Wizard window.

### 2. Calibrate with Scale Cross

( i ) To calibrate with scale cross, first select the Calibration Wizard command, then you'll get the Calibration Wizard window. Press the tag of Calibrate with Scale Cross to display the corresponding tab.
Click on “Load Image” will bring up the Open Image files dialog box, wherein you can choose images with scale crosses to calibrate. Click “Open”, the image you have chosen will be loaded.

(ii) When the image is loaded, you'll see a circle appear on it. You can modify the color by clicking the Circle Color button to bring up the Color Palette, wherein you can choose the color you want.

First put the center of the circle (set as "O") in the origin of the scale cross, put the point (set as "A") that is horizontal with the center of the circle in the horizontal line, and put a point (set as "B") that is vertical with the center of the circle in the vertical line. The magnifier window under the image window will help you to place the points precisely.

Confirm the objective lens used to capture the selected image, then input the actual length of "OA" in the "width" bar and the actual length of "OB" in the "height" bar. Click “Calibration” and the precise calibration will be finished.

(iii) The Save Sign? dialog box will be displayed when you click “Calibration”. Click “Save” in the dialog box, the result of calibration will be saved, so that it can be used in measuring.

(iv) When the calibration is finished, click “Close” to end the Calibration Wizard window.
3. Calibrate with Scale Line

(i) To calibrate with scale line, first select the Calibration Wizard command, then you'll get the Calibration Wizard window. Press the tag of Calibrate with Scale Line to display the corresponding tab.

First press the Horizontal tag to load the horizontal scale lines. Click “Load Image” will bring up the Open Image files dialog box, wherein you can choose images with horizontal scale lines to calibrate. Click “Open”, the image you choose will be loaded.

(ii) Then press the Vertical tag to load the vertical scale lines. Click “Load Image” will bring up the Open Image files dialog box, wherein you can choose images with vertical scale lines to calibrate. Click “Open”, and the image you have chosen will be loaded.

(iii) When the image is loaded, you'll see a line appear on it. You can modify the color of the line by clicking the Line Color button to bring up the Color Palette, wherein you choose the color you want.

Drag the two ends of the lines (set as "A" in the horizontal line and as "B" in the vertical line) to two different scales. The magnifier window under the image window will help you to place the points precisely.

Confirm the objective lens used to capture the selected images, then input the actual length of "A" in the "width" bar and the actual length of "B" in the width bar. Click “Calibration” and the precise calibration
will be finished.

( iv ) The Save Sign? dialog box will be displayed when you click “Calibration”. Click “Save” in the dialog box, the result of calibration will be saved, so that it can be used in measuring.

( vi ) When the calibration is finished, click “Close” to end the Calibration Wizard window.

Capturing Images with the Capture Window

1. When you start Motic Images Advanced 3.1, you’ll see the following workspace:

2. Click the Capture Window button (use the red arrow to point out) in the toolbar.
3. You will see the Capture Window on.

4. Click the “Capture Current Image” button (use the red arrow to point out) located in the tool bar of the window, you will capture the image that the microscope tool is presently viewing.

5. After capturing the image, the workspace will be displayed as the figure on the right:

6. Users can define the file name and path by clicking the Setting button. Then when you click the Capture, the right dialog box will appear. Fill in the file name, and select the format and path. Click OK to save the file.
7. Or you can select the Save As command from the File menu and Save as dialogue box similar to the one on the right will appear. Save the image with a filename. You can also decide with which format you want to save the image by clicking the down arrow in the Save As type text box and selecting from the formats provided.

## Capturing Video with the Capture Window

1. Open the Capture Window, select “Set Time Limit …” from the Capture menu.

2. In the Time Limit dialogue box, you can set the time limit. Then click “OK”.

3. Click the “Start Capture Video” button in the toolbar at the left of the image window.
4. Next, enter a name for your video and click “Save”. Once you click “Save”, another dialog box appears to confirm your operation, and when you click “OK”, you will be lead back to the capturer window and the video recording will begin.

**Taking measurements**

**Note:**
Please assure that your system has been properly calibrated prior to taking any measurements.

**To measure the length or Area in the active image:**

1. Select any of the Measure options by clicking the corresponding button in the Measure tool bar.

2. Click the Magnifier button to bring up the corresponding window. To modify the magnification, please click the two buttons provided accordingly. The default magnification is 400%.

3. Move the cursor to the image window, click and drag the mouse over the area or distance you want to measure. You can change the measurements with the clicking and dragging of the mouse.

4. Click the right mouse button on another part of the image, a popup menu will appear. Select “Freeze” or “Lock” to save the measurement.
5. You can get the measure results right after the measure operations. You can also click the “Measure Table” button (use the red arrow to point out) of the Measure control panel to bring up the measure table, which lists all the data of measure operations. The data can also be exported as *.xls or *.txt files. Select the Export Units check box, and the units will be contained in the *.xls file, or if you clear the check box, the units will not be contained in the *.xls file.

![Measure Table](image)

**Note:**
You can unlock the measurements, but you have to use the Undo command to cancel the freeze status.

**Erasing a Measurement**

To erase a measurement, please use the Undo command or button before saving an image file. You can also do this by selecting the “Delete” command from the popup menu.
Segment and Auto Calculation

1. We also provide the Auto Calculation function in our Advanced 3.1. Please select the proper method to segment the image before you carry out the Auto Calculation operation. You can select the segment method from the drop down list of the Segment button.

2. Please confirm the region you want to segment first. Select any button in the toolbar shown on the right, then click and drag the mouse to define the region to process.

3. The **Auto 1 object group** command separate the object regions from the background and fill the object regions with selected segment color.

4. The **Single Point** command will fill the regions having the same or similar gray level of the location of the mouse pointer with selected segment color.

5. The **Auto 2 object groups** and **Auto 3 object groups** commands divide the objects into 2 or 3 groups automatically and fill each group with a respective segment color. With the **Object Grow** command, you can fill each object with a respective color by clicking the objects in the image. Click the **Segment Setting** button in the Measure control panel brings up a dialog box. Select the Auto check box, the threshold will be set automatically. You can adjust the threshold manually by clearing the check box and modifying the Threshold slider.
6. With the **Manual Segment** command, you can decide what kind of objects to segment through the histogram. By the topmost **CheckBox**, you can hide the item you do not need.

7. The fill colors used in the segment operation depend on the setting in the Measure control panel. After segmenting, you can click the “Select Objects” button to eliminate the useless objects. Then click the **Auto Calculation** button, and you’ll get the precise data of the segmented image in the following window.
8. Select the different tabs in this window and you’ll get the data of different object groups. You can also click the corresponding button to get the summary information of different groups. Click any of the objects in the preview area, the selected object(s) will start to flicker, and the corresponding data will also be selected. You can also see a popup label listing the related data of the selected object.

9. Click the “Setting” button will bring up the following dialog box. By selecting or clearing the check boxes, the corresponding data will be shown or hidden. Click the “Export” button, you can also export the data as *.xls or *.txt files.
View 3D

1. When start Motic Images Advanced 3.1, you'll see the following interface:

2. Click the View 3D button (use the red arrow to point out) in the toolbar.

3. Then you will see the 3D window. With the tools provided, you can easily preview the 3D effects of plane images.

4. Click the Capture current image button in the toolbar (use the red arrow to point out), you can capture the real time image you preview in the 3D window. After this, the workspace will display as the figure on the right.
Customizing your settings

Configuring your measurement settings

1. By clicking the tag Measure in the Control Panel, you can customize your measurement settings.

![Measurement settings](image)

You also can change the unit used for measurements and the accuracy here.

2. After the measurement, click the right mouse button to bring up the popup menu. Select the Properties command, a dialog box will appear, with which you can change the color of measurement data and the line properties.

![Properties dialog box](image)

Configuring your image and video capture settings

Click the Setting button in the toolbar. Then the following dialogue box will appear.

![Setting dialogue box](image)

Here you can decide the size of the captured images, how often to capture a frame, and other aspects related to image and video properties.
Motic Report

1. Click the Motic Report button (use the red arrow to point out).

2. Then you’ll get the corresponding workspace (shown as the figure on the right).

3. You can add image(s) to your report by dragging the needed image(s) into the report page from the Preview Window of the program. You can modify the size of the image(s) as well. With the Motic Report of our Advanced 3.1, you can compile and preview reports with several pages. The figure on the right is an example of the preview window.

4. You can either print the report you’ve made or save it with the format *.mp.
MoticTek

Note: For the Microscope that provides a resolution of 1.3 mega Pixels with the IEEE 1394 Card/Firewire System

1. Click the MoticTek button in the toolbar (use the red arrow to point out).

2. The Exposure and White Balance operations will be carried out automatically to make the quality and color of images in the preview window similar with those of actual images. Then you’ll see the MoticTek window (shown as the figure below).

3. With the control window, you can easily change the quality and effects of the image shown in the preview window.

4. Click the Capture button (use the red arrow to point out) the program will capture the real time image shown in the preview window. After capturing, the work space will display as the figure on the right.
5. Click the Auto Capture button (next to the Capture button), the program will capture several images automatically. The size of the captured images, the frequency of capturing operation, and other aspects related to image and video properties can be preset with the Setting function.

6. We also provide Auto Exposure, White Balance and Background Calibration functions on the Basic tab. You can use these functions to adjust the quality of the image when the situation of the hardware is changed. Please refer to the figure on the right.

7. With the ROI function, you can select a square region through the clicking and dragging of the mouse in the preview window. Click the Set ROI button on the Basic Tab and then you can preview the selected region. Click the selected region again to restore the preview of the whole image. Please refer to the image on the right.
8. After selecting the Filter check box on the Region tab, you can choose different filters to process the real time images. Here we provide three filters: Invert, Grayscale and Emboss. Please refer to the following figure:

![Image of Filter options]

9. With the capture settings on the Capture tab, you can capture clear images even with insufficient illumination. Please refer to the following figure:

![Image of Capture settings]

Note: There are many other functions in the MoticTek module. Please refer to the help documentation of the Motic Images Advanced 3.1 software.
Distant Imaging Sharing

1. Click the Distant Imaging Sharing button in the toolbar (use the red arrow to point out).

2. Then you’ll see the Distant Imaging Sharing window (shown as the figure on the right).

3. Input the IP address or Computer name in the Address Calling box, and click the New Call button, you can place a call. When the call is through, you will see the workspace display as the figure on the right. Not only can you view real time images, but you can also send and receive files. The Volume button helps to modify the volume of mike and sound.

4. Click the right mouse button in the Video window brings up the popup menu, with which you can set the properties of video.

5. Click the Hang Up button will end a call.
Introduction for MCCamera

**Motic MC2000**

1. Before use Motic MC2000, please go to the setting panel to choose the MC2000Camera to run the Motic MC2000.

2. The Exposure and White Balance operations will be carried out automatically to make the quality and color of images in the preview window similar with those of actual images. Then you’ll see the Motic MC2000 window (shown as the figure right).

3. With the control panel, you can easily change the quality and effects of the image shown in the preview window.

4. Click the Capture button, the program will capture the real time image shown in the preview window. After capturing, the work space will display as the figure below.

   The image captured will be saved in the Temp folder under the current user.

5. Click the Auto Capture button (next to the Capture button), the program will capture several images automatically.
6. Motic MC2000 enables you to record the video. Click the Video button in the Tool Bar; fill in the name and path, and click “OK” to save the video.

Begin to record the video; click the STOP button to terminate recording the video.

7. Motic MC2000 enables you to adjust the **Brightness**, **Contrast**, **Saturation**, etc. If you change the brightness or switch the specimens during the observation, you can use Auto exposure and White Balance to adjust the image.

8. There is **ROI** function as well. If you drag the mouse in the preview window to define a rectangle, you can preview the region you selected. Click the button again to preview the whole image.
Set ROI

9. Motic MC2000 also provides **Real-time Image Preview** function. Click in the Tool Bar, and you can either select the different filters to process the whole image, or to process the region you defined.

10. Motic MC2000 can capture a sharp image even though the light is not high enough. Users can make more settings in the setting panel.
FREQUENTLY ASKED QUESTIONS (FAQ’S)

1. I’ve installed the software, made sure that the viewing lever is pulled out (if applicable) but I still cannot see any image when I try to use the digital microscope tool. Why?” (For using camera 3 of driver AD640)

In order to view images, the default video setting must be set to S-Video. To check if this is the case, use the following steps.

- Open the Motic DS Capture window.
- Select the “Options” menu.
- Then select the “Video Crossbar” command.
- Make sure that the Input Video Source is set as S-Video and then click the OK button.
2. How can I improve slow image movement when I use the driver AD 640?

Please select I420 in Motic DS Capture Window / Option / Video Capture Pin / Stream Format / Color Space / Compression.

3. After segmenting the image to be processed, how can I divide the conglutinate items into separate ones with the "Line" function of the Paint control panel? What’s more, I couldn't find corresponding changes in the result of the "Auto Calculation" operation. Why?

After segmenting, please click the line or pen button and draw a line between the conglutinate objects. Note: Please select the "Freeze" command from the popup menu to confirm your division first.

For better image quality in previewing the segmented objects, please click “Objects Morphologic Grads”, or “Objects Outside Contour”, or “Objects Inside Contour” first, and then click “Erode”.

4. What can I do with the Amalgamation function? And, how to use it?

The function of Amalgamation is to combine different images into one image with different methods, and to combine images at different focal depths of one specimen into a full focus image. Please refer to the instructions below:

1. Click the Album button to bring up the Album window, then click the tag “Amalgamation” to display the corresponding tab.
2. Click and drag the pictures you want to combine to the Amalgamation tab, click the Amalgamation button, and select the amalgamation method to combine them. The combined picture will appear in the preview window.

5. How to add sound to my files?

Note: To add sound to your images, you need a microphone, a sound card with a microphone input jack, and your files must be saved in SFC format (default).

1. Select the Music tab in the Control Panel, press the “Add Audio to Current Image” button, and click the mouse in the image, a frame will be added to the image. Click the “Record” button, and the Record dialog box appears. You may now click the record button to start recording.

2. Click the “Stop” button to end your recording session.

6. How to play the Background music?

1. Select the Music tab in the Control Panel, press the Playlist button in the Background music frame, and the Playlist dialog box appears. Clicking on the right mouse button, and selecting the Add command, or select “Add” button in the Playlist, you can add sound files to the list. Then please close the list.

2. Click the “Play” button, the sound files will be played in turn.
7. What’s the dialog box brought up by the “Segment Setting” button for? What if I change the setting in this dialog box?”

With the Object Grow command, you can fill each object with respective color by clicking the object in the image. Click the Segment Setting button (use the red arrow to point out), and a dialog box will appear.

If the Auto check box is selected, the threshold is set by the program automatically. Clearing the Auto check box, you can adjust the threshold manually by modifying the slider, which is useful when segmenting images with the color of objects close to that of background.

The following images will show you the differences between segmenting the same image through the default threshold and manually defined threshold.

8. When I put the CD in the CD-ROM drive, nothing happens, the software does not start automatically. Why?

The windows auto-insert detection feature being disabled may cause this. To start the software installation, please follow the instructions below:
1. Double click the My Computer icon.
2. Right click on the CD-ROM drive icon.
3. Select the AutoPlay feature and the installation should begin.
Command Quick Reference Guide

Interface:
Save the current image ........................................... Ctrl+S
Undo last command ........................................... Ctrl+Z
Redo last command ........................................... Ctrl+Y
Cut command ....................................................... Ctrl+X
Copy command ....................................................... Ctrl+C
Paste command ....................................................... Ctrl+V
Delete .............................................................. Ctrl+Del
Auto adjust .......................................................... F5
Quit the Motic application .................................. Alt+F4
Help ................................................................. F1
Album ................................................................. F2

Album Window:
Open .................................................................. Ctrl+O
Rename ............................................................... Ctrl+R
Delete .............................................................. Ctrl+Del
Cut .......................................................................... Ctrl+X
Copy ................................................................. Ctrl+C
Paste ................................................................. Ctrl+V
Select All ............................................................ Ctrl+A
Refresh ............................................................... F5