Zoomy™
Digital Microscope

WARNING:
CHOKING HAZARD - Small parts.
Not for children under 3 years.
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1. Introduction

1.1 Feature of the Digital Microscope

The Digital Microscope is a battery free device to use with a computer via a USB port. It magnifies specimen up to 35X on a 14" monitor. Snapshots can be taken by simply pressing the shutter button on the product. Video recording is also available.

1.2 Product Detail

- Digital Microscope 1 pc
- Software Installation CD 1 pc
- Instruction Manual 1 pc

1.3 Computer Requirement

For Windows® Operating System
RAM: 128Mb for Windows 98SE, ME;
256Mb for Windows 2000, XP;
512Mb for Windows Vista, Windows 7
CPU: P4 -1.8G
Display: 32bit
Display RAM : 64Mb
USB: USB 2.0
Hard Disk Free Space: 800Mb or above

For Macintosh Operating System
RAM: 128Mb
Operating System: Mac OSX 10.4.8-10.6.2
CPU: Power PC G3/G4/G5 or Intel based Macintosh computers
Display: Require QuickTime 6.5.1 or on Mac OS X 10.4.8 ~ 10.6.2
USB: USB 2.0
Hard Disk Free Space: 800Mb or above

1. Shutter Button
2. Focusing Ring
3. Lens
4. Adaptor 1- for face/scalp
5. Adaptor 1- for nose/ears
6. LED Illumination
7. Adaptor slot
8. USB Cable
1.5 Product Specification

White Balance: Auto
Interface: USB 2.0
Image Sensor: 350,000 pixel VGA CMOS
Image Resolution: 640 X 480 Pixels (VGA)
Snapshot Capture: Single Click on Shutter Button
Capture Image Resolution: 640 X 480 VGA
(Interpolation up to 1600 X 1200 pixels.
Note: Interpolation requires DirectX 9.0 or above for Windows® Operating System.
Interpolation up to 1280 X 960 pixels for Mac Operating System.)
Exposure: Auto
Luminosity: 3 Lux
Power: Via USB cable connecting to PC or MAC
Product Weight: 104g
Product Size: 50 X 50 X 74mm
Software Compatible Operation System:

Macintosh, Mac OS, Mac are trademarks of Apple Inc. registered in the U.S. and other countries.
2. Installing the Digital Viewer™ Software

- **Microsoft Windows Operating System**
  Make sure the Digital Microscope is not connected to your PC. Insert the Software Installation CD into the compact disc drive. The software should run automatically. If the installation does not start, open My Computer and locate the Digital Viewer Driver. Double-click Setup.exe to start the installation. (Please refer to 2.1, 2.2 and 2.3 for a detailed installation guide)

- **Macintosh Operating System**
  Make sure the Digital Microscope is not connected to your Mac. Locate the Digital Viewer Driver OSX1.04.dmg file on CD drive to start installation. (Please refer to 2.4 for a detailed installation guide)

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2.1 For Microsoft® Windows 98 SE Computer

- Once the CD is running, the Digital Viewer™ Software Driver Set-up dialog box will pop up automatically. Click "Install"
➢ Click "Finish" to complete the installation and restart the computer manually.
After the computer restarts, plug the microscope to the USB port of the computer. When the Digital Microscope is connected to the computer for the first time, the following dialogue box will appear and the "New Hardware Found" will be displayed.

![New Hardware Found dialog box]

Insert Windows 98SE CD-ROM into the CD-ROM drive, click "OK" to continue.

Note: If you do not have the Windows® 98SE CD-ROM, click “Cancel” to abort installation. The Digital Microscope cannot be successfully installed without the Windows® 98SE CD-ROM.
When the hardware installation is completed, short-cut icons will appear in "Programs" / "All Programs" on start menu, "Desktop" and "Taskbar" of the PC. The Digital Viewer can also be located in the "Device Manager" under Imaging Device.
2.2 For Microsoft® Windows 2000 Computer

➢ Once the CD is running, the Digital Viewer™ Software Driver Set-up dialog box will pop up automatically.

Click "Install"
➢ Click "Finish" to complete the installation and restart the computer manually.

➢ After the computer restarts, plug the microscope to the USB port of the computer. The following dialogue box will appear and the PC will automatically proceed to the hardware installation of the Digital Viewer.
Click "Finish"

A dialogue box will pop up prompting to restart the computer. Click "Yes" to restart computer.
When the computer has been restarted, short-cut icons will appear in "Programs" / "All Programs" on start menu, "Desktop" and "Taskbar" of the PC. The Digital Viewer can also be located in the "Device Manager" under Imaging Device.
2.3 For Microsoft® Windows ME/XP/Vista/7 Computer

- Once the CD is running, the Digital Viewer™ Software Driver Set-up dialog box will pop up automatically.

Click "Install"
➢ Click "Finish" to complete the installation and restart the computer manually.

After the computer restarts, plug the microscope to the USB port of the computer. The PC will automatically proceed to the hardware installation of the Digital Microscope.
When the hardware installation is completed, short-cut icons will appear in "Programs" / "All Programs" on start menu, "Desktop" and "Taskbar" of the PC. The Digital Viewer can also be located in the "Device Manager" under Imaging Device.
2.4 Installation for Mac OS

➢ Open the "Mac" folder of the CD drive and double click the "Digital Viewer Driver OSX 1.04.dmg" file.

In the "Digital Viewer Driver OSX 1.04" folder Double click " Digital Viewer Driver install.pkg" to start installation.
Click "Continue"

Welcome to Digital Viewer Driver Install installation program. You will be guided through the steps necessary to run this software.

Click "Continue"

Digital Viewer Driver Install 1.04 for Mac OS X
November 16, 2009

This README file contains important information you should know about Digital Viewer Driver Install for Mac OS X. Please carefully read it before you install this software.

System Requirements:
1. Mac OS X version 10.3 or later
3. Minimum 128MB RAM
4. Requires QuickTime 6.5.1 or later on Mac OS X 10.3.

Installation Instructions:
None.

Known Issues and Bugs:
None.
Click "Install"

Type your mac password and click "OK".
Click "Close" to finish installation. A Digital Viewer icon will appear on Desktop.
3. Uninstalling the Digital Viewer™ Software

3.1 Uninstalling on Windows

Select "Uninstall" on "Programs".

![Uninstall window](image)

Click "Yes" to uninstall.
Click "Finish".

The Digital Viewer™ Software has now been removed from your computer.

Alternatively, the Digital Viewer Software can be uninstalled with "Add or Remove Program" on "Control Panel".

3.2 Uninstalling on Mac

Double click "Digital Viewer Driver OSX 1.04".
Select "Digital Viewer Driver Uninstall.pkg".

Click "Continue"
Click "Continue"
Insert your mac password.

Click "Close" to complete uninstall.

The Digital Viewer™ Software has now been removed from your mac.
4. The Digital Microscope Operation

To View the images clearly, please use one of the adaptors provided.

4.1 Choose an adaptor, place it into the adaptor slot located under the main body. Lock by turning in clockwise direction.

4.2 Connect the USB Cable (8) of the Digital Microscope to a USB port of the computer. The LED light will turn on indicating that the Digital Microscope is powered on.

4.3 Start up the Digital Viewer™ software which is installed in the computer (Refer to Chapter 5 and 6 of this Instruction Manual for detailed operating instruction of the software).
4.4 Rotate the Focusing Ring (2) clockwise or anticlockwise until the observation image shown on the monitor is clear and sharp (See figures below).
4.5 Image can be captured by pressing the Shutter Button (1) on the Digital Microscope.
(Refer to Chapter 5.3 and 6.1 of this Instruction Manual for detailed instruction on saving and capturing images).

5. The Digital Viewer™ Software
Operation for Microsoft® Windows Operating System

5.1 Pull Down Menu

Double click the "Digital Viewer" short-cut icon on Desktop of the PC to open the program.
A) File

- **Set Capture File:**
  Saving the video file

- **Allocate File Space:**
  Set up the disk space allocated for video file. The default is set at minimum allocated disk space of 1MB. PC will automatically adjust the required disk space when needed.
Save Captured Video As:
Saving the video file in another directory or under another file name.

B) Devices

Digital Viewer:
Indicate the Imaging Device in use. If other Imaging Devices are available, make sure "Digital Viewer" is selected.
C) Options

➢ Preview:
When checked, the software is operating under PC Cam Mode and the Digital Microscope can be used for normal object observation.

➢ Audio Format:
The Digital Microscope is not equipped with this function.

➢ Video Capture Filter:
Image Setting such as Brightness, Contrast, Gamma, Hue, Saturation, Sharpness, White Balance etc.
Properties - Settings

When the image shown on the monitor appears dark, check the "Low Light" box for brighter image.

When completed, click "Apply" then "OK" or simply click "OK".
Properties - Effects

Add special effects to the image shown on the monitor.

When completed, click "Apply" then "OK" or simply click "OK".
Note: Effects can also be set by right clicking the "Digital Viewer" icon located at the taskbar. Choose "Special Effect" to open the list of special effects available.
Properties-Zoom

Check "Enable Zoom" for enabling digital zoom (Not recommended. Enabling this function may cause blurry image)

When completed, click "Apply" then "OK" or simply click "OK".
> **Video Capture Pin:**
Select Desired video capture resolution. See below dialog box for reference.

DirectX 9.0 or above is required for Interpolation up 1600 X 1200 pixels.
Images are observed at 640 X 480 pixels without interpolation.

When completed, click "Apply" then "OK" or simply click "OK".
D) Capture

- **Start Capture:** Start video capturing.

- **Stop Capture:** Stop video capturing.

- **Capture Audio:** The Digital Microscope is not equipped with this function.

- **Master Stream:** The Digital Microscope is not equipped with this function.
➢ Set Frame Rate:
   Frame Rate Set-up. Default is set at 30f/sec.

   ![Choose Frame Rate dialog box]

   - Use Frame Rate
   - Frame Rate: 30.000000 f/sec
     [OK] [Cancel]

➢ Set Time Limit:
   Set up time duration for video capturing. The software will automatically stop recording when reaching the pre-set time limit.

   ![Capture Time Limit dialog box]

   - Use Time Limit
   - Time Limit: 0 sec
     [OK] [Cancel]
E) Help

➢ About:
   Information about the software.
5.2 Video Capture

➢ Under "File", select "Set Capture File" or select the directory for saving the video file. Enter the desired file name followed by [.avi] and click "Open". The following dialogue box will appear.

![Set File Size Dialogue Box]

➢ Click "OK".

➢ Click on "Capture", select "Start Capture". The below dialogue box will appear.

![Ready to Capture Dialogue Box]

➢ Click "OK" to start video capturing. Move the Digital Microscope to capture desired areas of the object.
If Time Limit is set, the Digital Microscope will stop capturing automatically when the pre-set Time Limit is reached. If Time Limit is not set, under the "Capture" pull down menu, select "Stop Capture" to stop the video capturing.

Note: Frame Rate and Time limit can be adjusted. Please refer to 5.1 for details.

5.3 Captured Images

Press once on the Shutter Button located on top of the Digital Microscope to capture still image. When an image is captured, it will appear in a pop up window.
Note: Apart from using the shutter button, images can also be captured by right-clicking the "Digital Viewer" Icon located on the taskbar. Choose "Snap Shot" to capture image.
A) File

- **Save as:** Saving the captured image in another file name.
- **Close:** Close the window
B) Edit

- **Never Rotate**: The image will not be rotated.
- **Rotate 90 degrees CW**: The image will be rotated 90 degrees clockwise.
- **Rotate 90 degrees CCW**: The image will be rotated 90 degrees counter-clockwise.
- **Rotate 180 degrees**: The image will be rotated 180 degrees.

![Digital Viewer](image)
C) Help

➢ **About Snapshot Viewer:** Information about the software.
6. Using the Digital Microscope on Mac OS

Double click the Digital Viewer Icon. The below webcam list will pop up.

![WebCam List](image)

Double Click on "Digital Viewer" on webcam list to start observation.
6.1 Taking Snap Shots

Press on the shutter button located on top of the Digital Microscope to take snap shot. The image captured will appear in a pop up window.
Note: The image captured will automatically be saved on Desktop.

6.2 Video Recording

➢ Click "Record Video".

➢ Click "Save" and start recording.
Click "Stop Recording" when recording is finished.

Locate the file and play video.
6.3 Video Setting

➢ Click "Video Setting".
The below window will appear. Various settings can be adjusted, by sliding the control bar as shown in below. Select "Default" to return back to default settings.
Digital Zoom
Control digital zoom by sliding the control bar.
Setting Video Format
Select "Format" and set your desired format.
Setting Colour Balance
Adjust Hue, Saturation, Brightness and Contrast and Sharpness of video. Select "Default" to return back to default settings.
7. Care & Storage

➤ Clean the Digital Microscope Casing with moistened cloth when necessary then wipe it dry. Never use chemical detergent to clean the Digital Microscope.

➤ Never leave the Digital Microscope in a damp or dusty place.

➤ In case the Digital Microscope will not be used for a prolonged time, store the Digital Microscope in its original box and keep it in a well ventilated environment and away from extreme heat or direct sunlight.

8. Warning

➤ Never attempt to open or dismantle the Digital Microscope.

➤ To avoid possible permanent eye damage, do not place lighted Digital Microscope directly upon human eye.