

DIGITAL CAMERA MICROSCOPE

(mag' 15x, 30x & 60x)

PRODUCT GUIDE

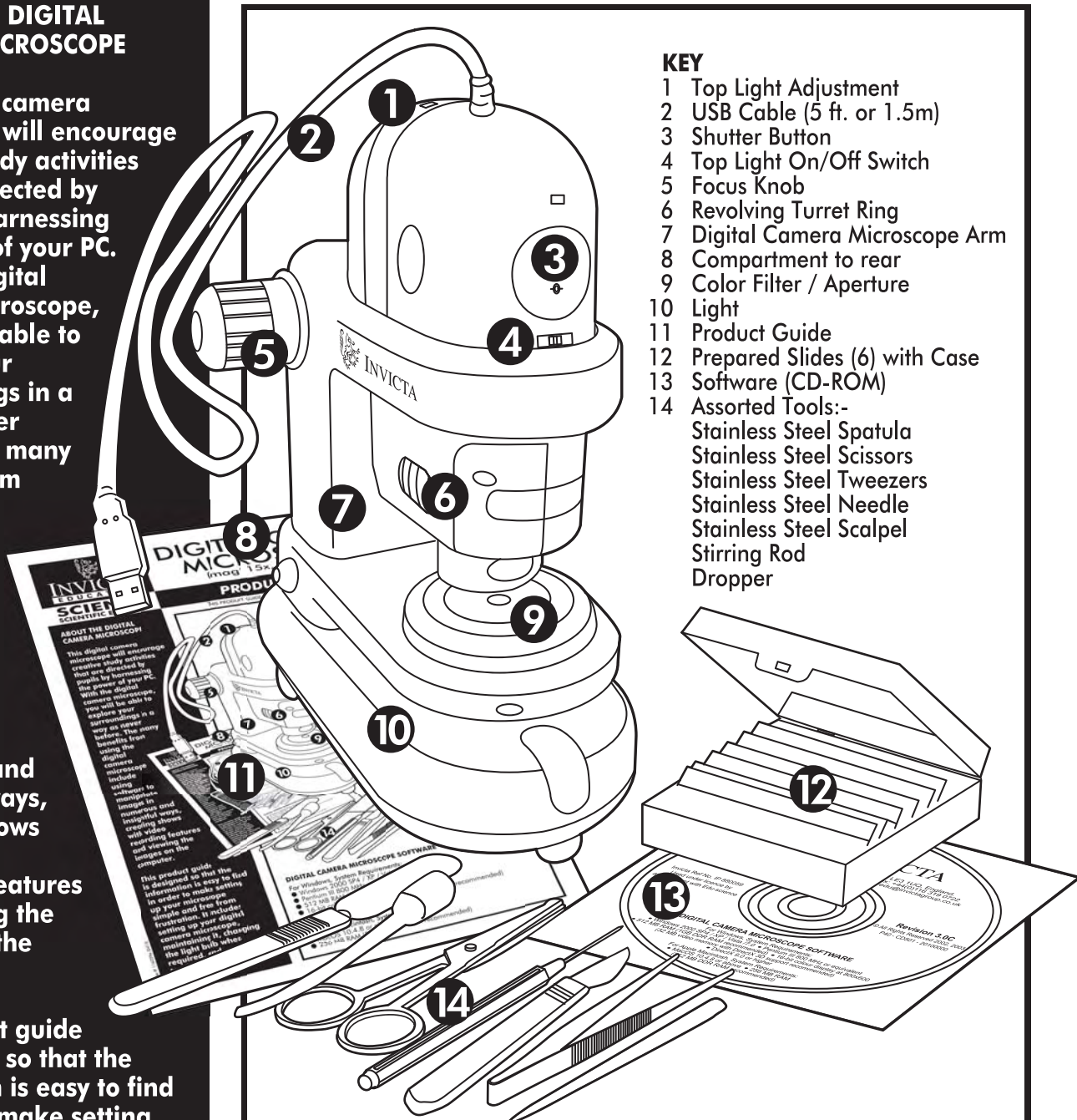
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THIS PRODUCT GUIDE MAY BE PHOTOCOPIED FOR CLASS USE ONLY

ABOUT THE DIGITAL CAMERA MICROSCOPE

This digital camera microscope will encourage creative study activities that are directed by pupils by harnessing the power of your PC. With the digital camera microscope, you will be able to explore your surroundings in a way as never before. The many benefits from using the digital camera microscope include using software to manipulate images in numerous and insightful ways, creating shows with video recording features and viewing the images on the computer.

This product guide is designed so that the information is easy to find in order to make setting up your microscope simple and free from frustration. It includes setting up your digital camera microscope, maintaining it, changing the light bulb when required, and troubleshooting any problems that may arise.



KEY

- 1 Top Light Adjustment
- 2 USB Cable (5 ft. or 1.5m)
- 3 Shutter Button
- 4 Top Light On/Off Switch
- 5 Focus Knob
- 6 Revolving Turret Ring
- 7 Digital Camera Microscope Arm
- 8 Compartment to rear
- 9 Color Filter / Aperture
- 10 Light
- 11 Product Guide
- 12 Prepared Slides (6) with Case
- 13 Software (CD-ROM)
- 14 Assorted Tools:-
Stainless Steel Spatula
Stainless Steel Scissors
Stainless Steel Tweezers
Stainless Steel Needle
Stainless Steel Scalpel
Stirring Rod
Dropper

DIGITAL CAMERA MICROSCOPE SOFTWARE

For Windows, System Requirements:

- Windows 2000 SP4 / XP / Vista / 7.0
- Pentium III 800 MHz or equivalent
- 512 MB RAM (1GB DDR RAM recommended)
- 16-bit colour display at 800x600
(32 MB video memory with DirectX 3D support recommended)
- DirectX 9.0 or higher

For Apple Macintosh, System Requirements:

- MacOS 10.4.8 or above
- 256 MB RAM (512 MB DDR RAM recommended)

DIGITAL CAMERA MICROSCOPE 2

INSTALLING THE SOFTWARE

Supported Operating System:

- Microsoft Windows XP
- Microsoft Windows 2000 SP4, DirectX 9.0 or up(USB Driver needed)
- Microsoft Windows VISTA or 7.0 (USB Driver for windows 2000 and image viewing software for Windows Vista or 7.0 such as AMCAP.EXE could be downloaded via website <http://www.invictaeducation.com>, see "Unable to access CD Rom software?" below).

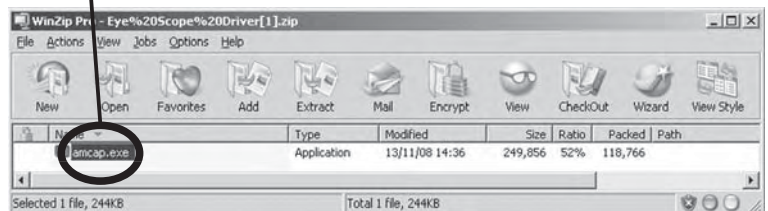
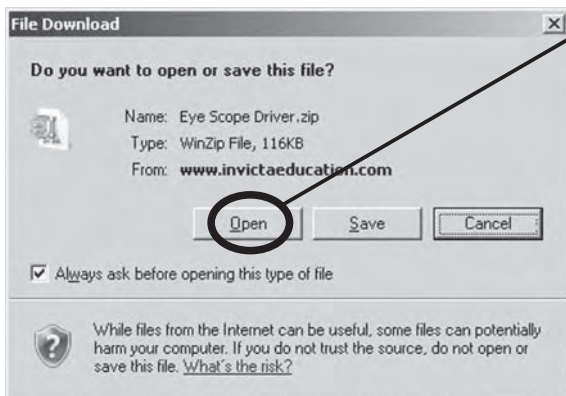
USING THE DIGITAL CAMERA MICROSCOPE ON A PC

- PC 1)** Plug in your Digital Microscope to a USB port on your PC or Mac.
- PC 2)** Insert the CD into your CD Rom drive and click "Open Folder to View Files". A list of files will show.
- PC 3)** Click on the "AMCAP" file and a new window will appear. There may be an image on screen from a built in webcam.
- PC 4)** Select "Devices" from the window menus, then select "USB 2.0 VGA Video Device".
- PC 5)** The image on screen will now be from your Digital Camera Microscope. Should the image not appear, click "Options" and ensure that "Preview" is ticked.

NOTE: For full detailed specification and full installation instructions, please select "General4PC".

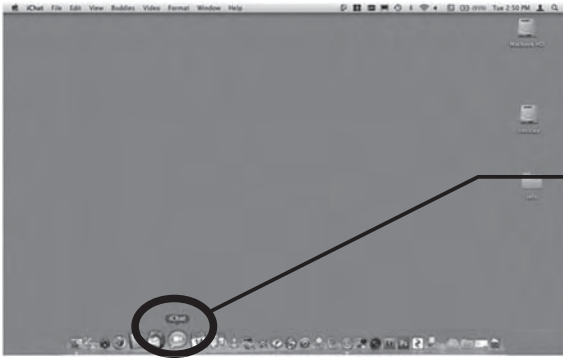
UNABLE TO ACCESS CD ROM SOFTWARE?

- Download 1)** If you are unable to access the software on the CD Rom, go to www.invictaeducation.com.
- Download 2)** Select "Science", then "Discovering the world around us", then "Digital Camera Microscope", or use the search facility by typing in "Digital Camera Microscope" and selecting the product shown.
- Download 3)** When you are on the Digital Camera Microscope product page, click [HERE](#) to begin the software download.
- Download 4)** Select "Open" and a zipped file will appear.
- Download 5)** Double click on the file, then select "Run".
- Download 6)** An "AMCAP" window will appear. There may be an image on screen from a built in webcam.
- Download 7)** Select "Devices" from the window menus, then select "USB 2.0 VGA Video Device".
- Download 8)** The image on screen will now be from your Digital Camera Microscope. Should the image not appear, click "Options" and ensure that "Preview" is ticked.



DIGITAL CAMERA MICROSCOPE 3

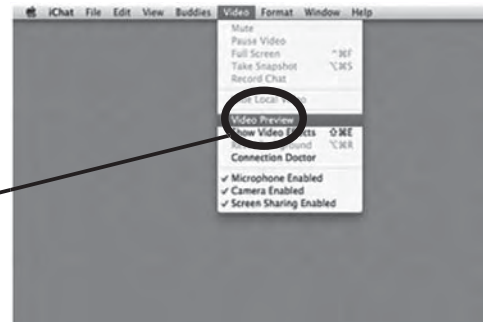
USING THE DIGITAL CAMERA MICROSCOPE ON A MAC



Mac 1) Wait until the USB image device driver is installed properly.

Mac 2) Please click the "iChat" icon.

Mac 3) Select the "Video Preview" menu, then you are ready to view images with your Digital Camera Microscope.

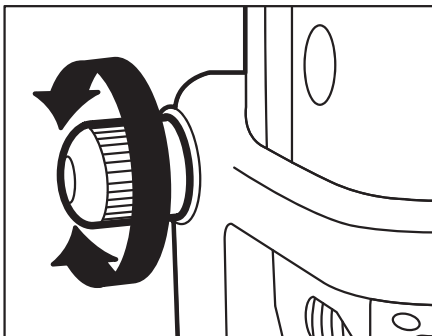


DIGITAL CAMERA MICROSCOPE CONTROLS

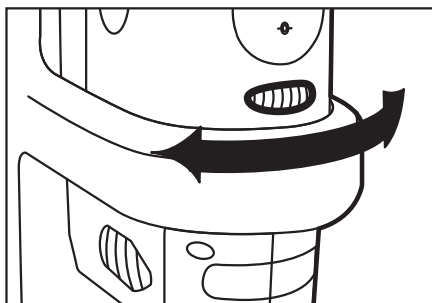
The Digital Camera Microscope should only be used when supported by the Microscope arm (see diag' on page 1, item 8), as this will help to ensure vibration free images. Once the software is installed and running, you can use the controls to focus, change magnification and capture pictures/movies.

FOCUSING

- 1) Focus on the image on the screen with the focussing knob.
- 2) You should be able to see the image become closer or further away as the focus knob is adjusted slowly.



For better images, further adjustments can be made at the front of the camera unit.

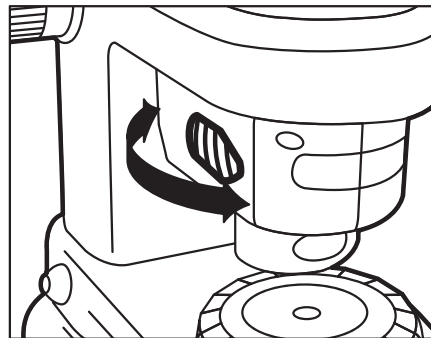


NOTE: The image on the screen will have a delay so you should wait for the image to refresh before adjusting again.

CHANGING MAGNIFICATION

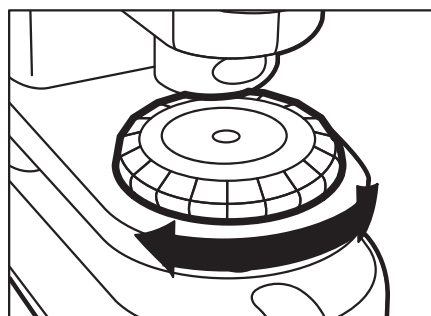
Change the magnification of the image by turning the revolving

turret ring.



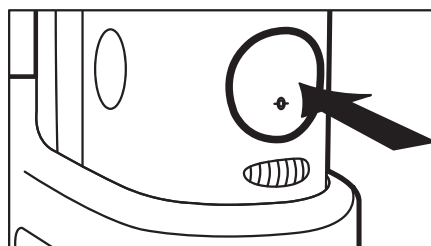
CHANGING COLOUR FILTER

Different specimen effects can be displayed by turning the colour filter aperture.

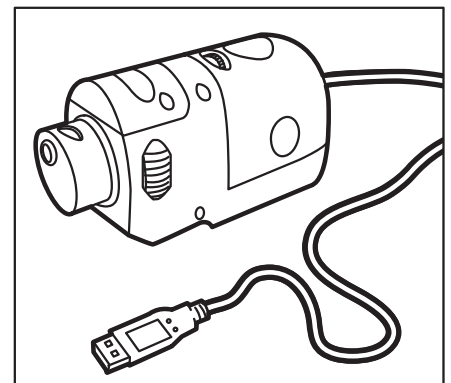
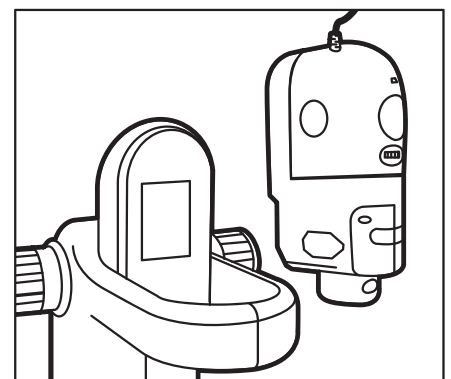
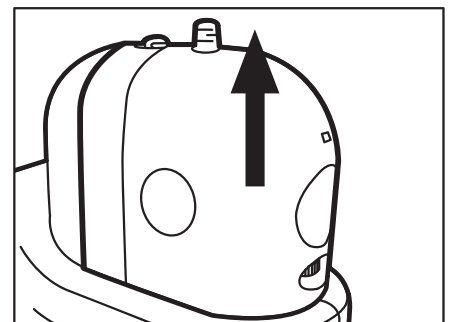


TAKING IMAGES

Images on screen can be captured (recorded) by pressing the shutter button.



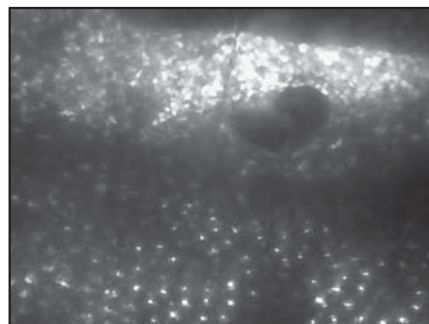
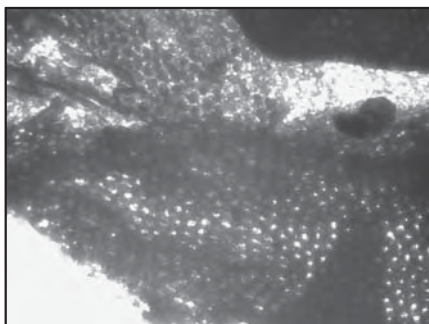
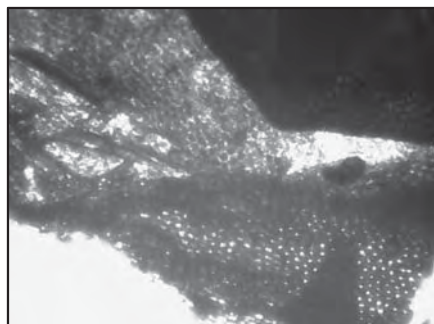
SEPARATING THE DIGITAL CAMERA FROM THE MAIN MICROSCOPE BODY



DIGITAL CAMERA MICROSCOPE 4

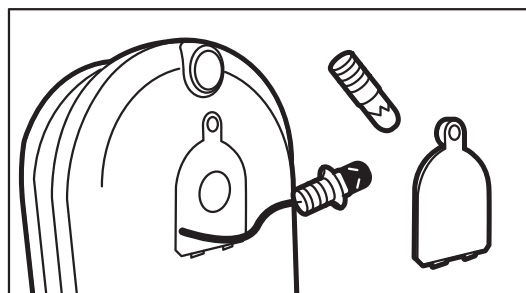
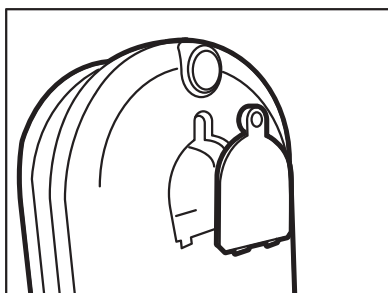
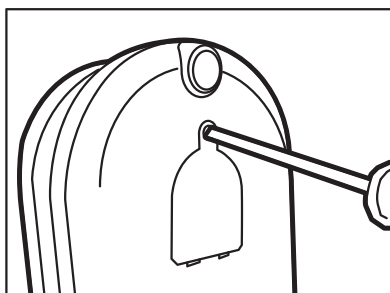
MAGNIFICATION OPTIONS

Shown below are examples of the same slide (one of the prepared slides included with your Digital Camera Microscope) as seen through the three available magnifications (left to right: 15x, 30x and 60x).



CARE AND MAINTENANCE

Use a Philips screw driver to open the light compartment.
Bulb Specification: 2.2V DC 150mA.



TROUBLESHOOTING

● The Digital Camera Microscope is not connected to the computer.	Connect the Digital Camera Microscope to the computer. If the problem still exists, you have to remove the Digital Camera Microscope device driver and install it again. (Please consult Windows® User Guide.)
● Video recording feature is not available.	Reinstall the CD Software.
● Out of memory.	Please exit other software to free up more memory.
● Cannot turn on the light.	Please refer to the section "Care & Maintenance" (above) to replace the bulb.
● Error found when loading image into the memory.	Run ScanDisk to check you hard disk for logical and physical errors. ScanDisk can then repair the damaged areas of your hard disk.
● Your computer does not have a default printer.	Please check whether an appropriate printer is installed on your computer.
● Cannot initialise clipboard.	Please exit other software to free up more memory.

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WARNING: NOT SUITABLE FOR CHILDREN UNDER 10 YEARS OLD BECAUSE THIS PRODUCT CONTAINS A FUNCTIONAL NEEDLE, SCALPEL, SCISSORS, SPATULA, TWEEZERS AND PREPARED SLIDES, SOME OF WHICH MAY HAVE SHARP EDGES AND COULD BE POTENTIALLY HARMFUL IF MISUSED. SMALL PARTS MAY CAUSE A CHOKING HAZARD. KEEP BATTERIES AWAY FROM CHILDREN. BATTERIES MAY BE HARMFUL IF SWALLOWED. TO BE USED ONLY UNDER ADULT SUPERVISION. Prior to use, an adult must read the instruction guide carefully and ensure that children follow all safety, warnings and cautionary procedures. Please retain the information from this pack for future reference. We reserve the right to alter designs and specifications (including colours and materials) when such changes are unavoidable. This product conforms to the safety requirements of EN71, ASTM, 16 CFR and The Canadian Hazardous Products (Toys) Regulations. MADE IN CHINA.

