EyeSpy - Pebble 8

USB Iris Camera

& EyeRonec Microcapture Software
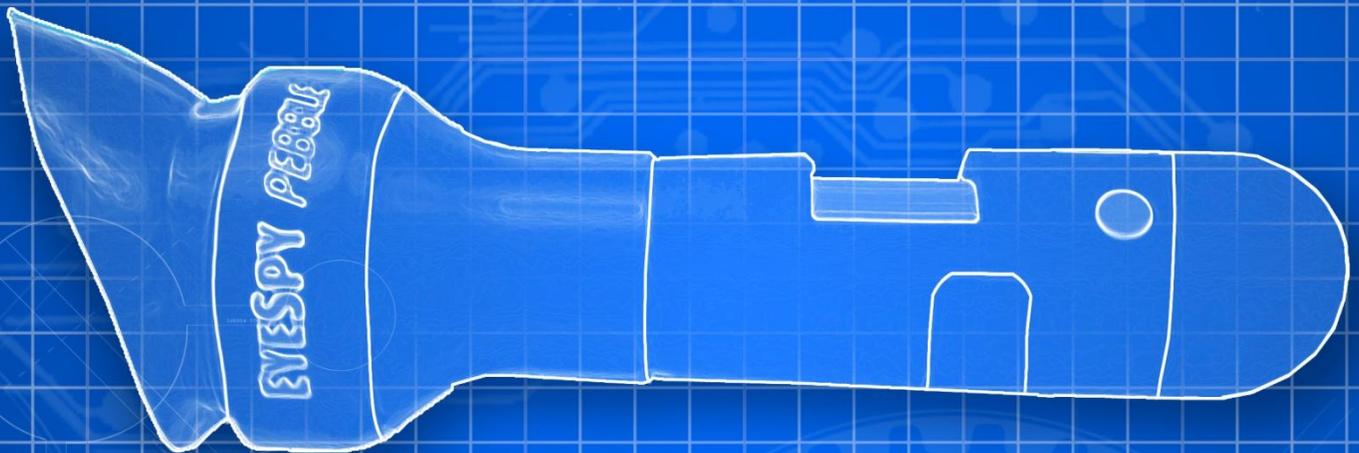
INSTRUCTION MANUAL
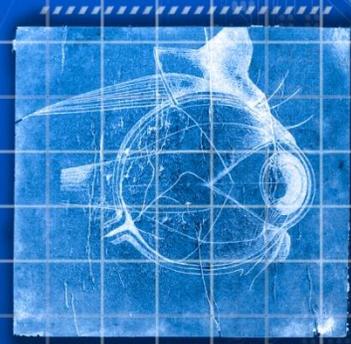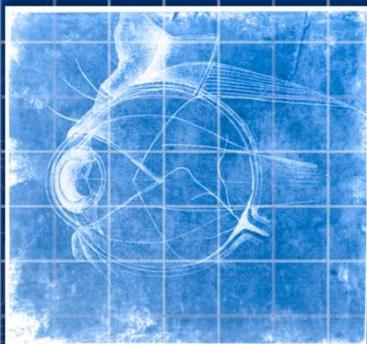
EyeSpy "Pebble-8"
Instruction Manual

Firstly, thank you for your purchase of the EyeSpy Pebble-8 camera.

The EyeSpy cameras have come a long way from improving a bad Chinese camera using Microsoft* electronics/software and creating the original EyeSpy. Our latest camera (Eyespy Pebble-8) uses a true 2Mp (5Mp interpolated) sensor and 8 LED lights, allowing us to produce great iris pictures. A live image is shown on the computer screen and only one USB cable needs to be connected for the video signal and power to run the camera.

Designed and made in Australia with local and imported   components.

Commonwealth of Australia design patent has been awarded.

*Microsoft is a registered trademark of the Microsoft Corporation USA

Table of contents

Camera Overview

First have a look at the camera, you will notice the freely rotating eyecup that blocks out all the false light.

There is the large focus wheel you turn ever so slowly to get the precise focus. You will notice it is stiff when first used.

You will see the snap button to take the picture and on the cord(or the back) of the camera you will find the light intensity control.
In the box you will find the camera and the stand that may be used to display the unit and as a magnifier stand. It has no iridology function at all.
The software disk and the instructions are also in the box.

NOTE: This camera needs the driver and capture software installed before it can be used. NO Registration is required and NO additional software, such as EyeRis is needed to use the Pebble-8 Camera

Quick Look at the EyeSpy Pebble-8

Snapshot button —

Focus wheel —

LED light control wheel

Rotating Eye cup

<u>If you have any Problems with taking photos.</u>
**Please ensure you read the *Image Capture Problems*
section found on page 20**

Installing the Software

1. Be sure to turn any virus checker software and malware software OFF for the duration of the install
2. Make sure your EyeSpy Pebble-8 is connected into your computer (USB Port).
3. Disconnect any other camera (including build-in cameras)
4. Have no other program running (some programs run in the background)
5. Put the disc in the slot and run. You should see the main window of the CD that is displayed below.

6. Firstly install the driver by clicking **Driver Download**

The Install Shield Wizard will walk you through the whole process. Just follow the prompts.

Click on the "*Next*" button to continue.

7. Then click the **Install Capture Software** to install the software.

   Ensure you have installed the drivers first (step 5)

   The Install Shield Wizard will walk you through the whole process. Just follow the prompts.

8. Now connect the camera into the USB port, the drivers should activate the camera

Installation Troubleshooting

- Sometimes software is hard to install as computers are like humans, No two are alike and the makers of the software have NO control over what is installed on your computer and how this may affect the new software.
- When there is such a problem ask for help from any young person as most are good with computers.
  (No need for expensive IT people!)
- Try to install the software on another computer even if you do not want to use it, just to give you confidence in the software. The software is OK.
- No we did NOT send you a faulty disk.
- Connect the camera to the 1st USB port. If you are unsure, try the far right, or the far left USB port.

Quick Start Guide

1. Firstly ensure the EyeSpy Pebble-8 Camera is plugged into your computer, and all other cameras/webcams are disconnected.

2. Now you need to locate and then click the [icon] icon that will be on your desktop.

   The following screen should pop up.
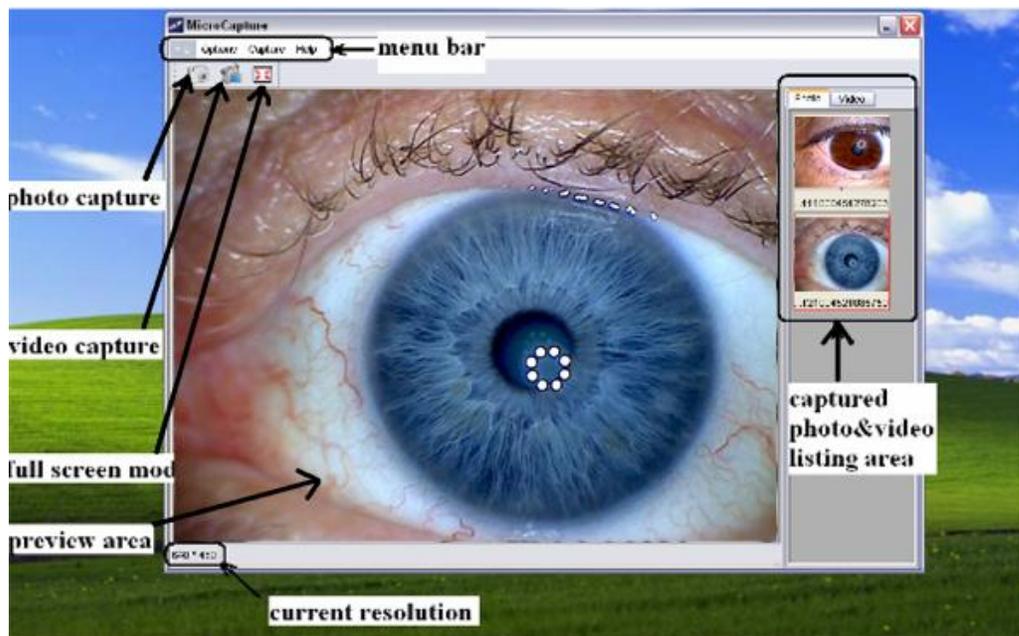
If the Pebble-8 is not properly connected the following screen will display.

No Device detected, please connect your Microscope directly to your PC USB port.

You need to reconnect the Pebble-8 and restart the software

3. You will initially see a black screen, which may change colour when the camera starts to work.

Change window Size:

4. Now go to options and select 640x480 preview size as shown in the image below.
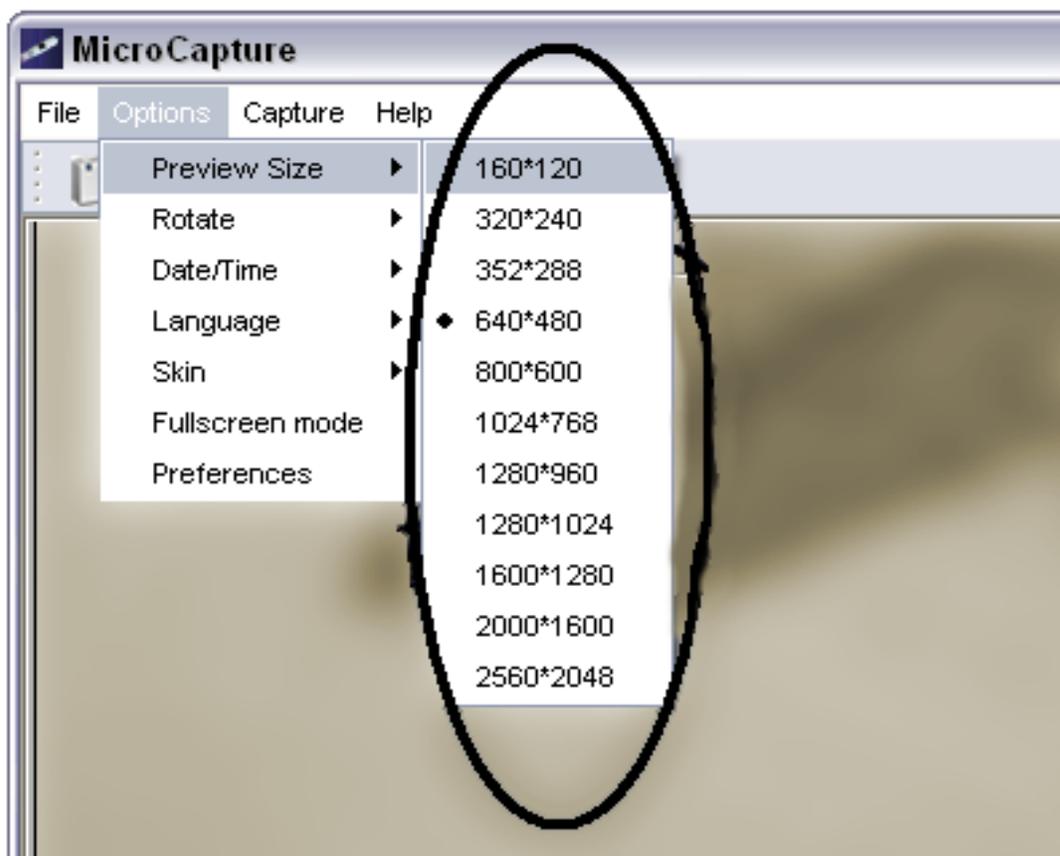
This will give you a nice little window and a fast picture update. (If the screen is large, it will update slowly, making it difficult to focus properly)

Note: The size (number of pixels) of the photo taken is equivalent to the preview size that you have selected, so once you are conversant with the focus of the camera and software you can increase the pixel size to 800x600 or higher and focus really slowly to get a higher pixel image up to 5 Mp 1600 by 1280 is the maximum pixel size, without interpolation (creates an unclear image)

Focusing:

5. To bring the Pebble-8 into focus you can place the camera over a label on your keyboard or on your clothing, as opposed to your patient's eye. Slowly rotate the focus knob until the picture comes into view.

6. You can now place the Pebble-8 over the eye. Fine tune the focus wheel slowly *(it is very sensitive)* until it is in focus.

Taking a photo:

7. Now press the snapshot button *(Pg 4)* without moving the camera.

  - If the image is too dark you may have the lights too low, try adjusting the LED Control wheel *(Pg 4)*.
  - If the 8 lights show as white streaks you have moved the camera while taking the photo.
  - The 8 Lights should show perfectly round and in the pupil zone.

Preview an image:

8. You will notice that the images you have taken are displayed as thumbnails on the right of the main window. You can move the cursor ($\mathbb{k}$) over any of the windows and that image will be displayed in the preview area, replacing the Pebble-8 live view.

captured photo&video listing area

Or you can also double click on one of the thumbnails to bring up a new window as shown here on the right.

Delete an image:

9. From this preview window you can delete an image by clicking the ❌ icon (this will permanently delete the image.)

Save an image.

10.   You can also save an image from the preview window by clicking the 💾 icon. Save the images in a folder you can later find back and rename the images with the patient's name and date. Another way you can also save an image is by right clicking the appropriate thumbnail followed by clicking the *"Save"*

 Note: Do not use the delete option from this menu as the software has been known to delete the wrong image if you delete images this way.
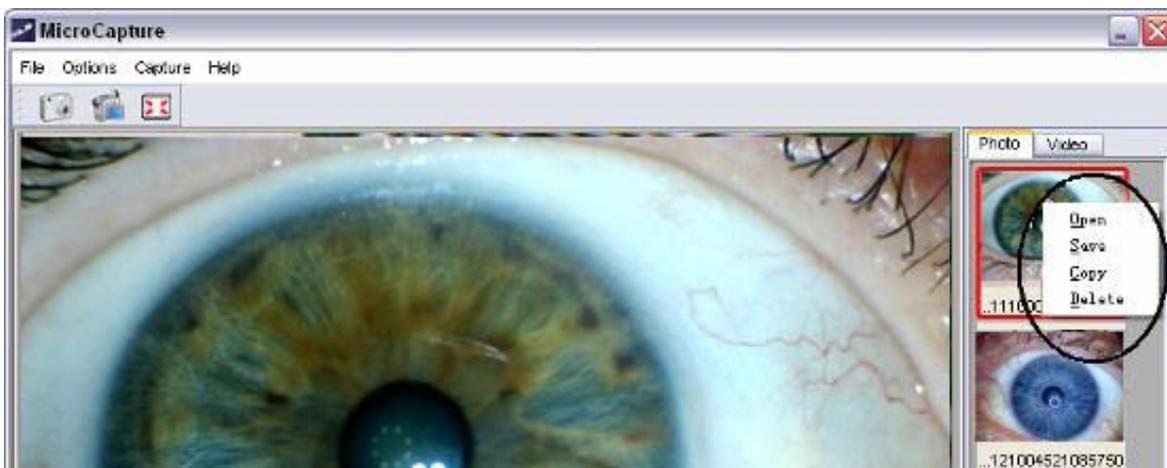
11.   Too take another image, move the cursor (🖱) back onto the live screen.

Using the Software Interface

Change Preview Size

- You can change the preview size by the following operation.
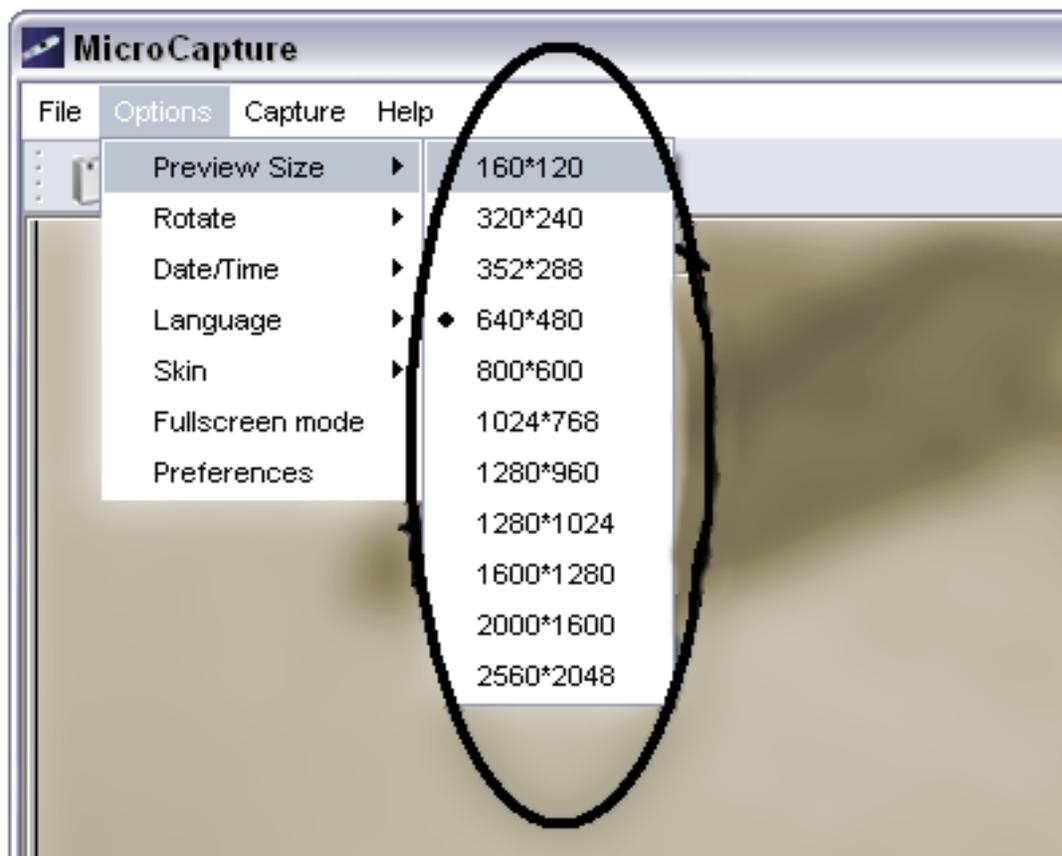
The higher the preview window, the larger the image will be but, the refresh rate will be slower. For this reason, 640 by 480 is the optimum window preview size to start with.

Rotating the camera image angle

- You can rotate the output image clockwise and counter clockwise.
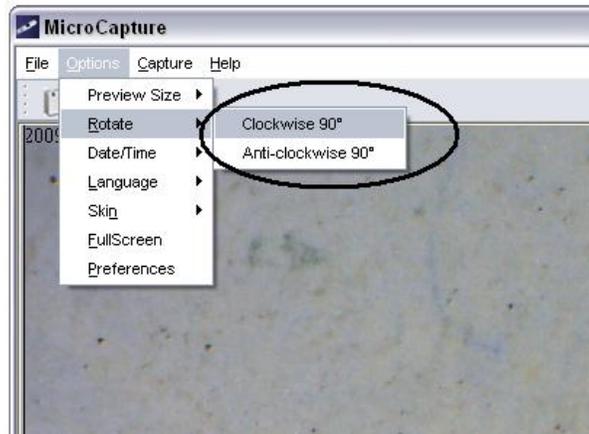
This option is unnecessary if you simply hold the camera the right way up.

Date/Time Option

- You can set the Date and time to either display or be hidden by the following option.
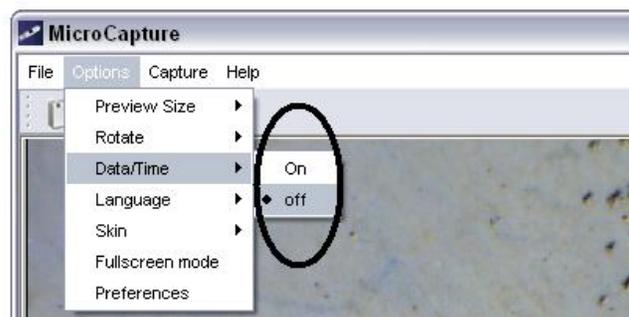
We recommend turning Date/Time ON, to help keep your iris photos more organized.

13

Language

- You can change the on screen language using the options displayed below.
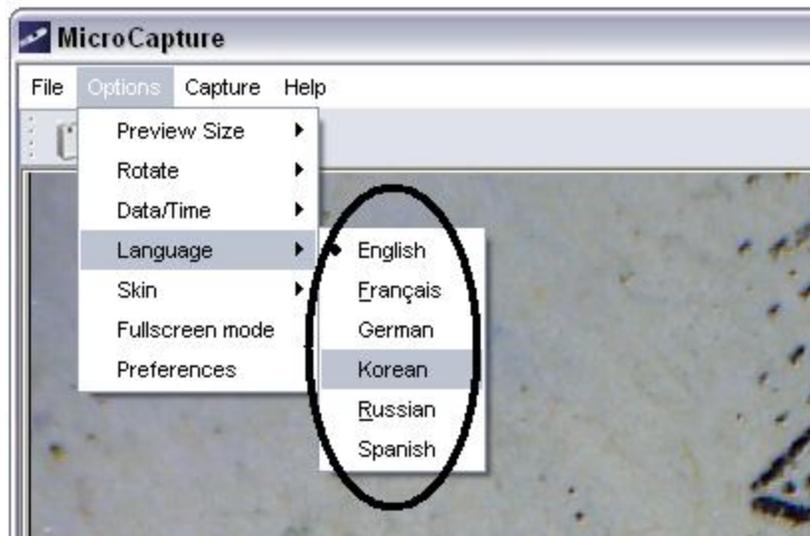
Change the Skin/Appearance

- You can change the appearance or skin of the main window by the following option below.
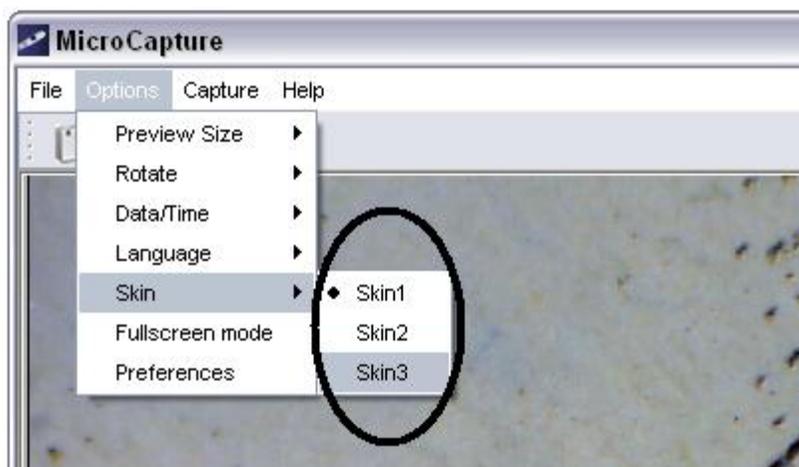
Full Screen Mode

- There are 3 ways to enter or exit Full Screen mode.

1. Double Clicking the Preview area.

2. Clicking the Full Screen Icon
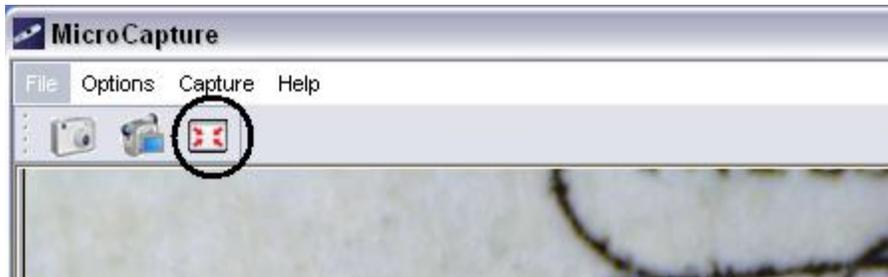
3. Selecting *"Full screen mode"* from the options menu.
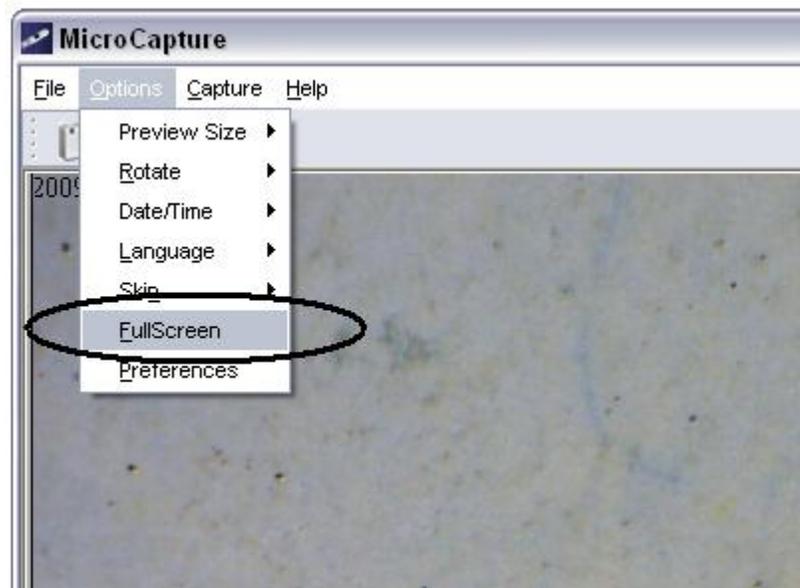
When in Full screen mode, click the Full screen icon to restore or turn off menus and toolbars.

Preferences –Brightness, Contrast, etc

- Firstly open up the Preferences window from the Options Window.
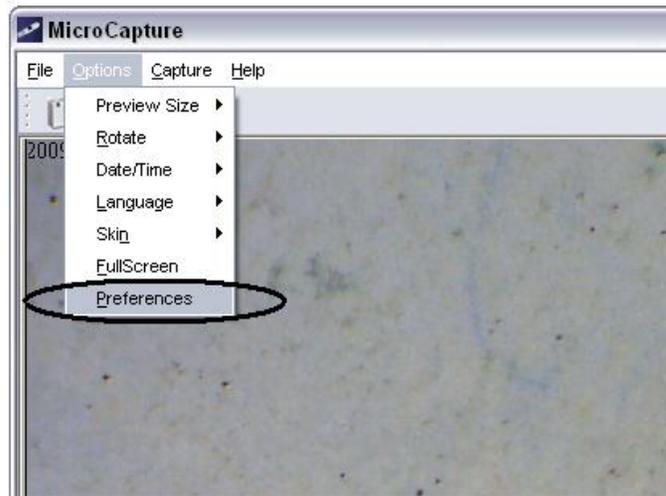
- Then select the

  "Video Proc Amp" tab.

- If required you may adjust the image Brightness, Contrast, Saturation, white balance etc.

- In some cases dark brown eyes may show up better if the brightness is increased.
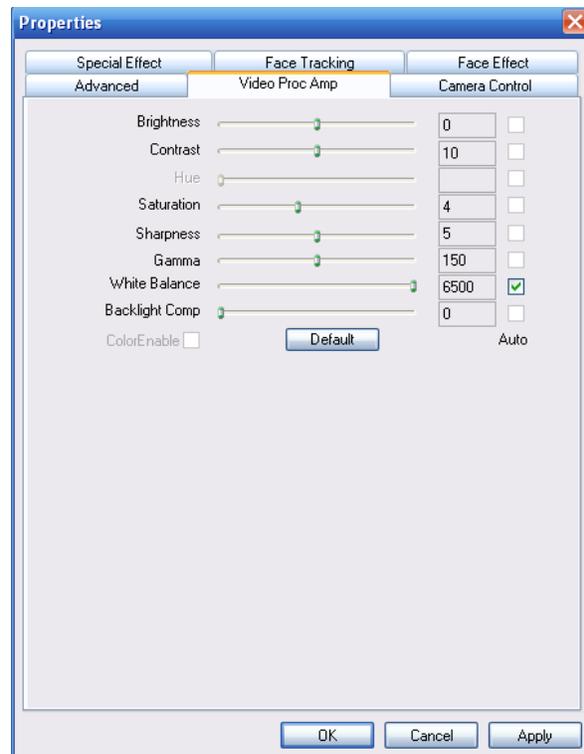
Video Capture

- Although the software has the capacity to take video, this is generally not very useful for those practicing iridology.

- However if you do wish to take a short video you can by clicking the icon.

Quit Micro Capture

- To quit the software go to File and then Click Exit.
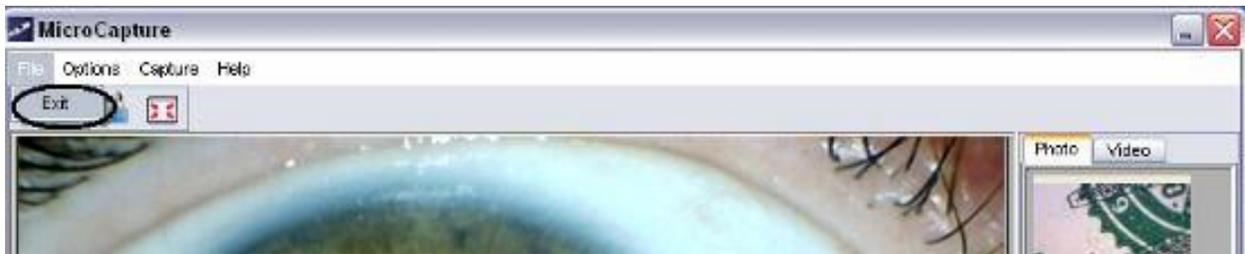
Maintenance and Updates

- Although the LED lights can last 13 years or longer, you may disconnect the Pebble-8 after you have quit the program, preserving the LED lights.
- The eyecup may be cleaned with alcohol between patients.
- No further maintenance is required. Just ensure that you keep the device dry, clean as well as making sure that you do not drop it.

Warranty

- For updates of this manual, please visit *www.iridology.nl* regularly and click the "*downloads/updates*" tab.
- Suggestions and ideas are also welcome at the forums found at *www.iridology.nl*

- The full warranty is outlined in our Terms and Conditions, outlined on *www.iridology.nl*

- In summary, if you have a problem with your camera that cannot be resolved during the warranty period send your camera to us postage paid. We will either repair or replace your camera and send it back to you.

Mac Users Quick Guide

Installing the software.

To install the software just open the *mac* folder that is contained on the disc and copy "**MicroCapture**" onto your desktop for daily use.

Using the Mac software

1. Plug your Eyespy Pebble-8 into the USB port.

2. Double Click the "**MicroCapture**" icon that you placed on the desktop when installing the software.

   The Pebble-8 Camera is now ready to use.

Preview the Live Screen

In the preview window, you will see the live view from the camera.
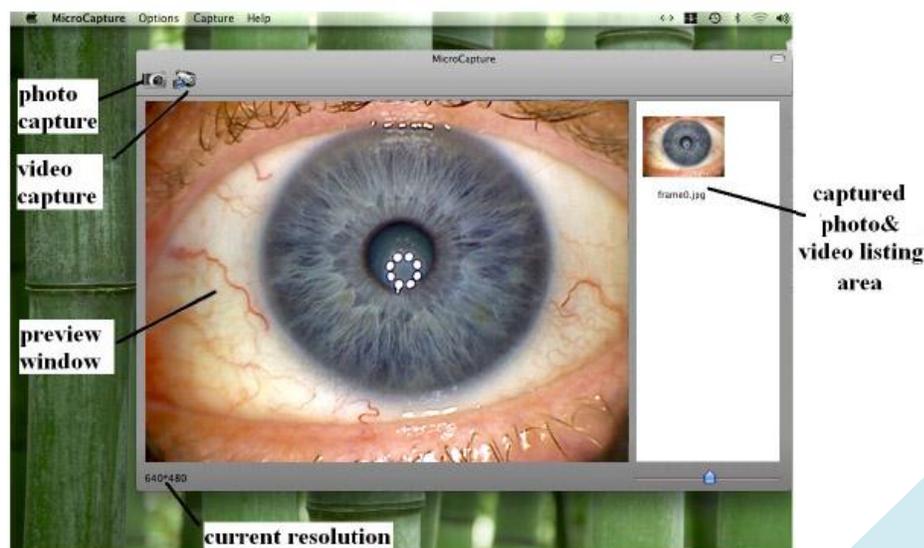
Change the Preview Resolution

To change the preview size, select "Preview Size" from the "Options" menu.
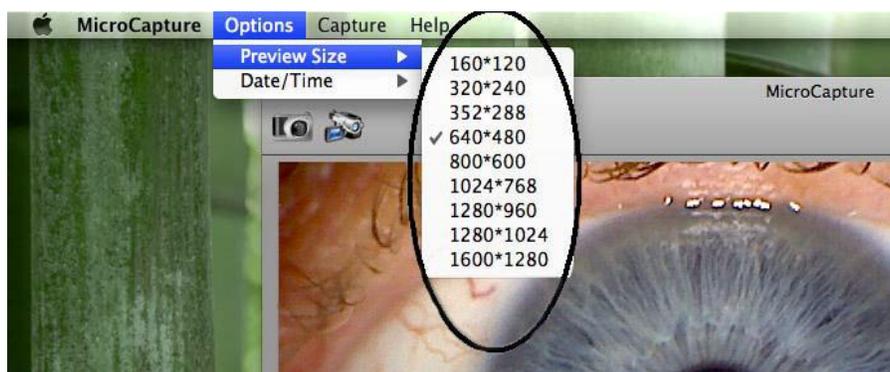
The higher the preview window, the larger the image will be but, the refresh rate will be slower. For this reason, 640 by 480 is the optimum window preview size.

Please note that the preview window size always remains at 640x480 but the current resolution will show at the left bottom corner.

Date/Time Options.

To change the date and time options, select **"Date/Time"** from the **"Options"** menu.
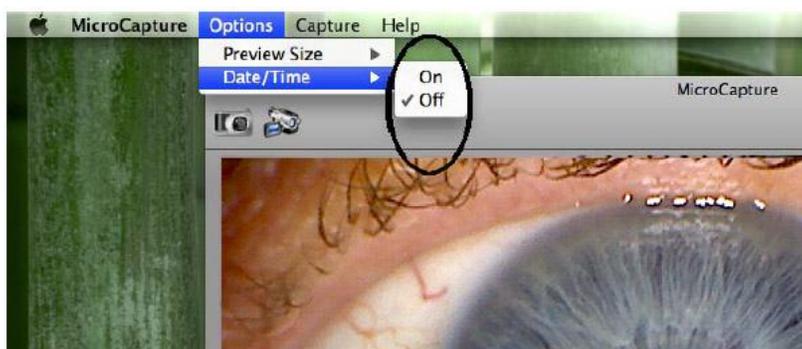
We recommend turning Date/Time ON, to help keep your iris photos more organized.

Capturing an Iris Photo

1. Firstly you need to bring the Pebble-8 into focus.
To bring the Pebble 8 into focus you can place the camera over your keyboard or on your clothing, as opposed to your patient's eye. Slowly rotate the focus knob until the picture comes into view.

2. You can now place the Pebble-8 over the eye. Fine tune the focus wheel slowly *(it is very sensitive)* until it is it in focus.

3. Then click the camera Icon ( ) to capture the image. You will see this icon at the top left hand corner of the window.


- If the image is too dark you may have the lights too low, try adjusting the LED Control wheel *(Pg 4)*.
- If the 8 lights show as white streaks you have moved the camera while taking the photo.
- The 8 Lights should show perfectly round and in the pupil zone.

Preview Captured Media

Captured photo & video will appear as thumbnails on the right side of the preview window.

Double Click one of these thumbnails to preview an image.
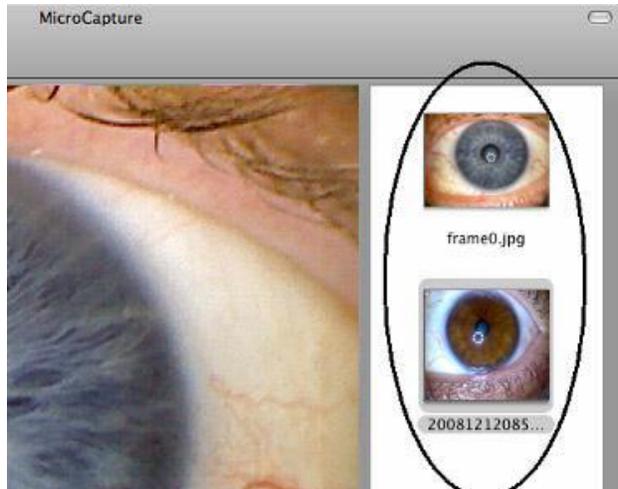
You can then carry out any operations as you normally do on your Mac computer.
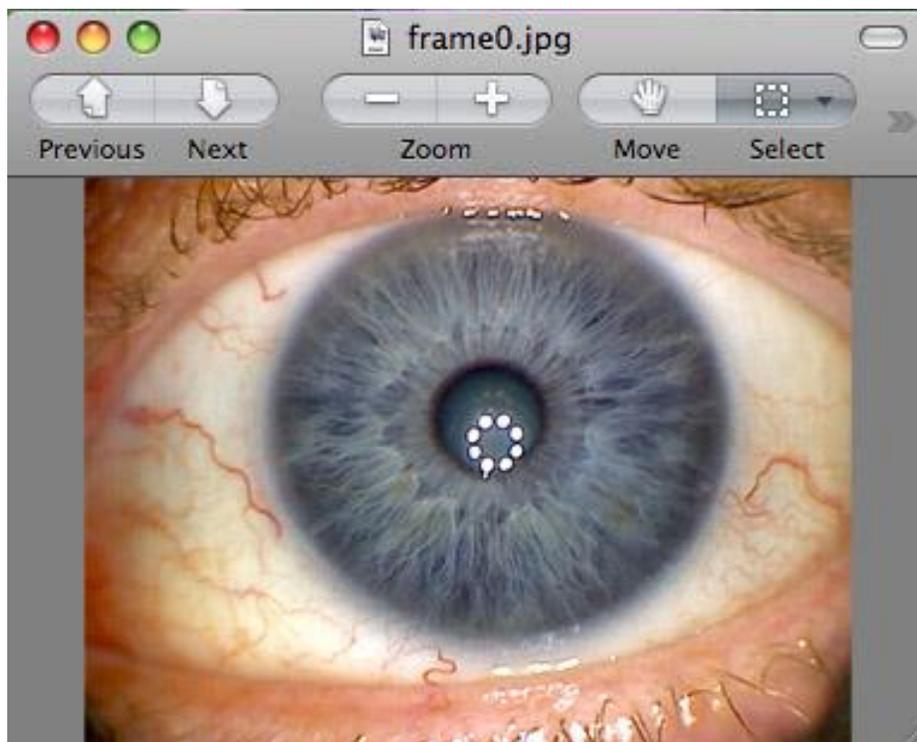
Video Capture

- Although the software has the capacity to take video, this is generally not very useful for those practising iridology.

- However if you do wish to take a short video you can by clicking the icon.

Exit the software

To exit the software click on **Quit MicroCapture** as follows.
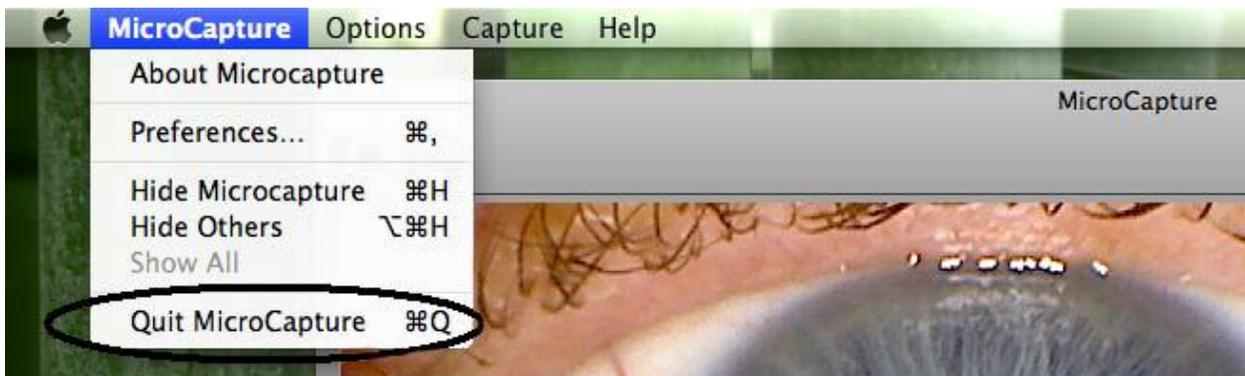
# Image Capture Problems

Example Image #1

The image is very dark and appears to be grainy.
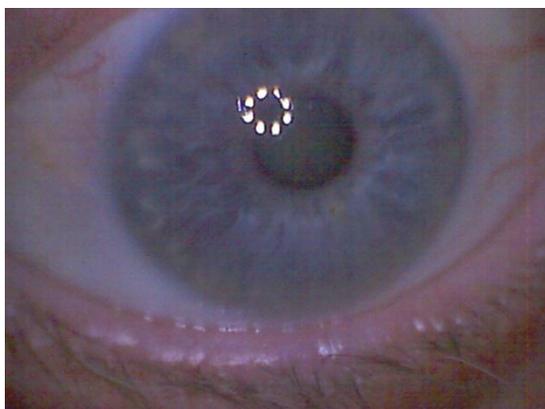
Explanation 1) There is not enough light to take a clear image. The camera has adjusted itself(increased the gain) to try and capture more light , resulting in grainy image

Solution: Adjust the LED Control wheel (see page 5) to make the lights brighter.

Example Image #2

The image is blurred or out of focus

Explanation) Look at the lights in the center of the pupil, if they are distorted similar to the image on the left; you have moved the camera while taking the image. The right image was taken without moving the camera (see the Lights are perfectly round).


Solution) Keep the camera still by placing the eyecup firmly against the eye-socket and pressing the snap button without moving the camera

24

Example Image #3

The image is slightly blurred. It is almost a clear image.

Explanation) The focus wheel isn't in focus, resulting in a blurry image.

Solution) To bring the camera into focus you need to adjust the focus wheel (see page 5) into focus. To do this you must turn the wheel very slowly (as well as keeping the camera still).
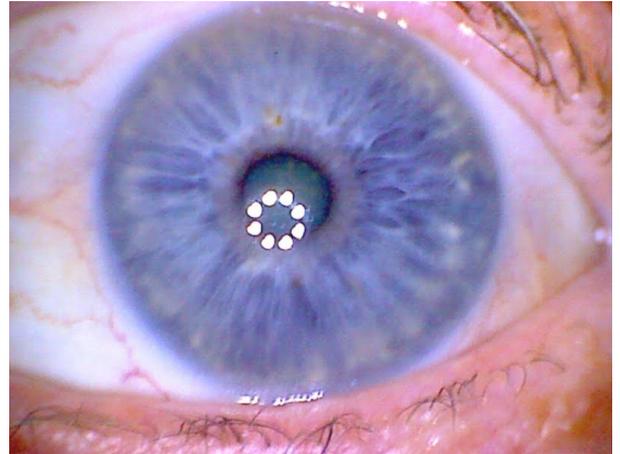
Also, make sure you have the window preview size set to 640 by 480 by (see page 12). This will make it easier for you to focus the camera while you are familiarizing yourself, once you are more familiar with the camera, you can increase the window preview(pixel) size.

System Requirements

- Windows 2000/XP/VISTA/WIN7/Mac OS X10
- Pentium 4 1.8 or higher
- RAM: 256MB
- Video Memory: 32MB
- USB port: 2.0 or higher
- CD-ROM Drive

Technical Specifications

|	
Image sensor	2 Mega Pixels (interpolated to 5M)
Still capture resolution	2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Video capture resolution	2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Focus Range	Manual Focus from 10mm to 500mm
Frame Rate	Max 30f/s under 600 Lux Brightness
Magnification Ratio	Optimised for Iridology
Video format	AVI
Photo format	JPEG or BMP
Light source	8 LED(adjustable by control wheel)
PC interface	USB2.0
Power source	5V DC from USB port
Operation system	Windows2000/XP/Vista/Win7/ Mac OS X10*
OSD language	English, German, Spanish, Korean, French, Russian
Capture software	EyeRonec MicroCapture

*Not all features are available with Mac software

Practitioners Products

FOOT REFLEXOLOGY CHART
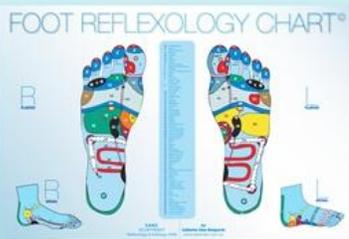
Reflexology Chart

Wall Chart (600x900mm) - **$19**
Desk Chart (300x420mm) - **$19**
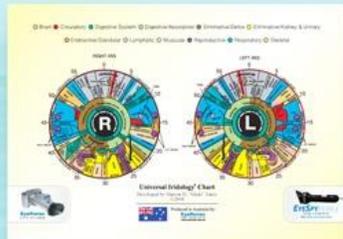
Iridology Chart

Wall Chart (600x900mm) - **$19**
Desk Chart (300x420mm) - **$19**

Jensens Traditional Double Sided **Iris Chart** (200x350mm) - **$19**

Iridology Postcard System Flash Cards (6 x 4")
and CD ROM in Pouch - **$19**

10x Dual LED Iris Torch
- No need to stand Close to the Client
- Perfect for Sclera and Iris observation

$39.⁹⁵

5x Torch - **$9.90**   20x Torch- **$12.50**   15x Torch - **$19.95**

EyeRonec Limited Edition - $3295
No Computer Required -Easy to use - Lightweight

Practitioners Fertility Course

Would you like a busy and rewarding practice?
Become a fertility care consultant.
This 10 day home study course is fully supported by
Catherine Chan and clinic hours can be provided.
21 DVDs and manual.
This is a wonderful modality to practice

$595

---
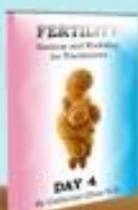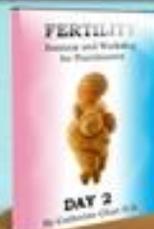
*To see our large range of iridology and health products, or
would like to purchase any of the above products:
Please visit www.iridology.nl or call us on (02) 4362 2795*

3 Boxwood Close Ourimbah

Telephone: (02) 4362 2795

Fax: (02) 4362 1207

Web: *www.iridology.nl*

Email: *leo@care.cc*

Printed in Australia