



EyeRonec Pebble Pro and 8+2

Instruction manual

EyeRonec Pebble PRO/8+2

Instruction Manual

Thank you for purchasing the EyeRonec Pebble entry- level iridology camera.

The Pebble is a culmination of years of experience with the earlier Pebble, the EyeRonec and firstly EyeSpy USB cameras.

We have incorporated most of the features that iridologists have requested from us, over time. This has resulted in a very economical camera with a **closed capture** system so there is no false light to spoil the image.

There are 8 lights that fall into the pupil area, most of the time, with 2 side lights to better capture brown eyes, and the snapshot button and the light intensity control on the camera's lead.

Just click the button on the camera or click the mouse to take a picture. There is a solid focus knob on the camera to allow you to get a clear image.

This camera's images are getting closer to the professional camera's resolution, in fact the pictures the Pebble takes are remarkable for a USB type camera. This is due to the TRUE 2 Mp and the new TRUE 5 megapixel sensor now possible due to high speed computers.

Our original EyeRonec cameras always had a **live image** on a large monitor and the Pebble is continuing that tradition, in this case utilizing your computer screen, so it is easy to compose a good image before you take the shot.

This is our best USB Iridology camera yet, great for beginners as well as professionals. The Pebble is ready for use in seconds and can be taken anywhere.

Over 50 years of experience in electronics have gone into the patented design of the Pebble.

Minimum System Requirements:

- Windows XP / VISTA / WIN7/ WIN8/ WIN10
- Mac 10.6~10.8.
- P4 1.8 or above
- RAM: 512M
- Video Memory: 64M
- USB port: 2.0
- CD-ROM Drive

The faster your computer speed the less lag (delay) there is.

In other words the better the computer the faster the image updates and this will improve better focusing and the “taking” of the picture

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Camera Overview

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

The tip should face away from the nose.

There is the large focus wheel you turn ever so slowly to get the precise focus.

The snap button is located on the USB cable to take a picture and the light intensity control is also on the cord of the PRO camera and build-in the back of the 8+2 camera.

You can attach the control device to the back of the PRO camera with Velcro dots for single handed operation.

The software disk and the instructions can be found inside the package.

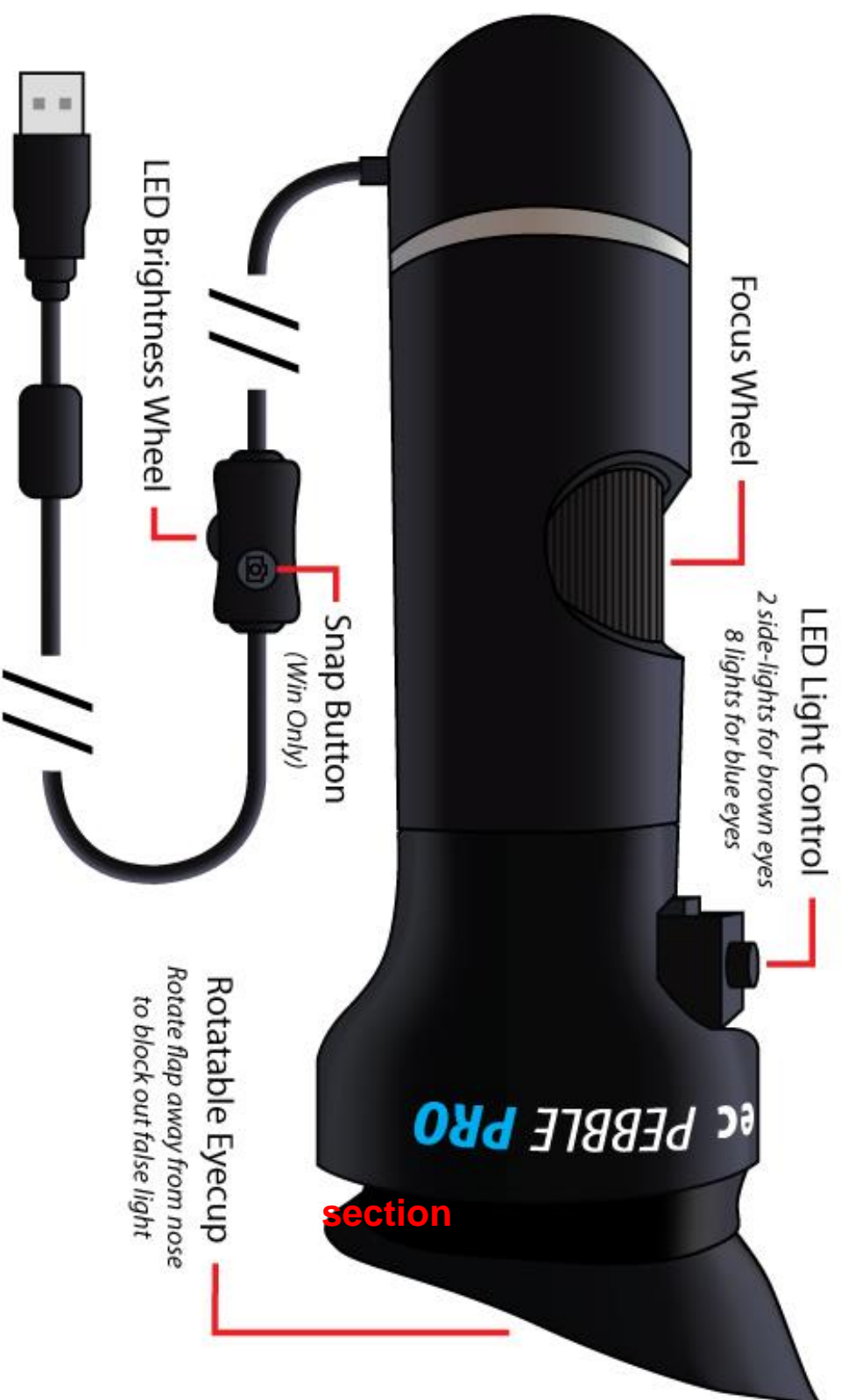
The Pebble-8+2 has the Light intensity control on the back of the camera and also the button to take the picture.

NOTE: This camera only needs the capture software (MicroCapturePRO) installed to operate, the driver is already in the WIN operating system. MAC users may use Photobooth instead of using MicroCapture.

Quick Look at the EyeSpy Pebble-8



If you have problems with taking pictures see our Image capture problems page in this booklet.



section

Problems with taking photos?

Please read the *Image Capture Problems* section found on page 27

Installing the Software

1. Be sure to turn any virus checker software and malware software OFF for the duration of the installation.
2. Make sure your Pebble PRO/8+2 is **connected** into your computer's main USB Port.
3. Disconnect any other camera (including the built-in camera)
4. Have no other programs running (some programs run in the background)



5. Put the disc in the drive and run. You should see the main window of the CD that is displayed below. If not go to the start button and open "(my) computer" and click on the disc.
6. Install the software by clicking **Install Capture Software**

The Install Shield Wizard will walk you through the whole process. Just follow the prompts. You may need to click on

the icon that is flashing on the bottom toolbar to authorise the software install.

Click on the “**Next**” button to continue.

7. Then click the **Install Capture Software** button to install the software.
8. MicroCapture PRO uses inbuilt drivers in your PC's operating system. There is no need to download or install additional drivers.

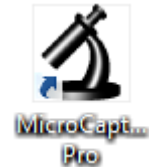
Installation Troubleshooting

- 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 any new software installation.
- When there is such a problem ask for help from any young person as most are good with computers.
(There should be NO need for expensive IT people!)
- Try to install the software on another computer even if you do not want to use it there, just to give you confidence in the software. The software is OK, and 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.
- Version V3.0 will show “no device detected” in the bottom of the window (see page 9)

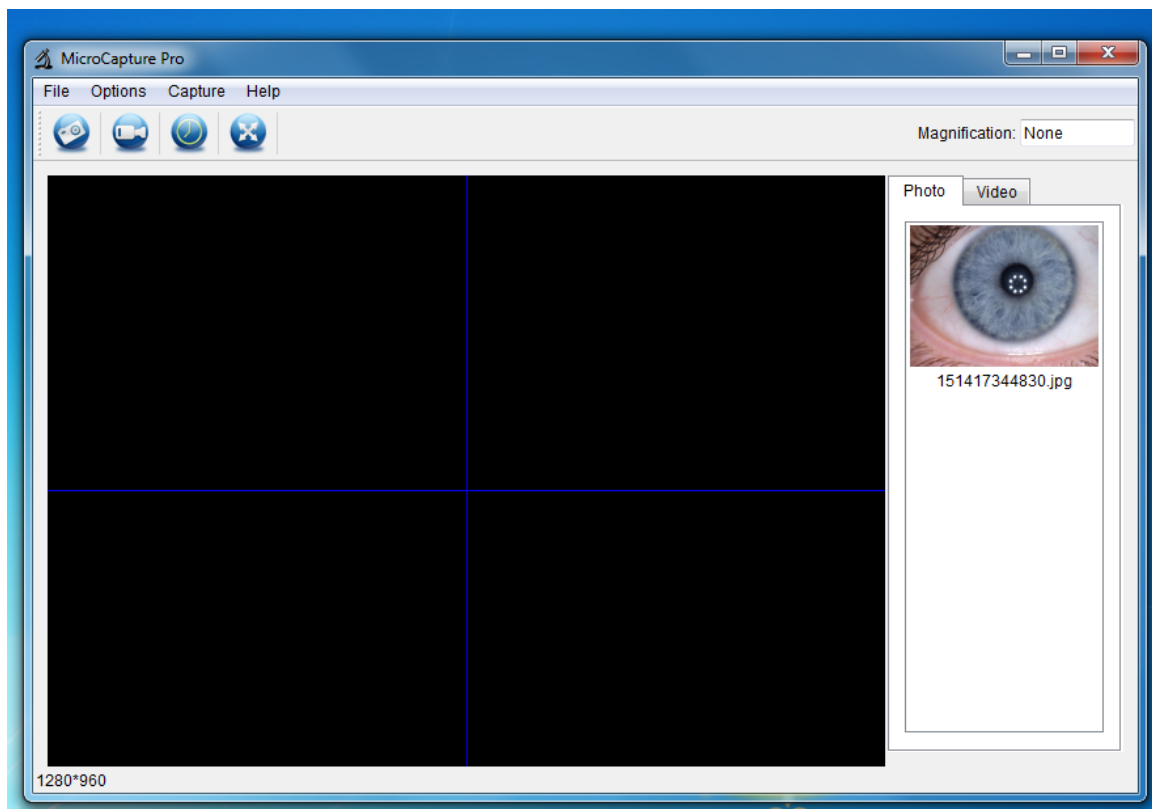
Quick Start Guide (Windows)

1. Firstly ensure the Pebble PRO/8+2 Camera is plugged into your computer, and all other cameras/webcams are disconnected.

2. Now you need to locate and then click the MicroCapture Pro Icon on your desktop.



The following screen should pop up.



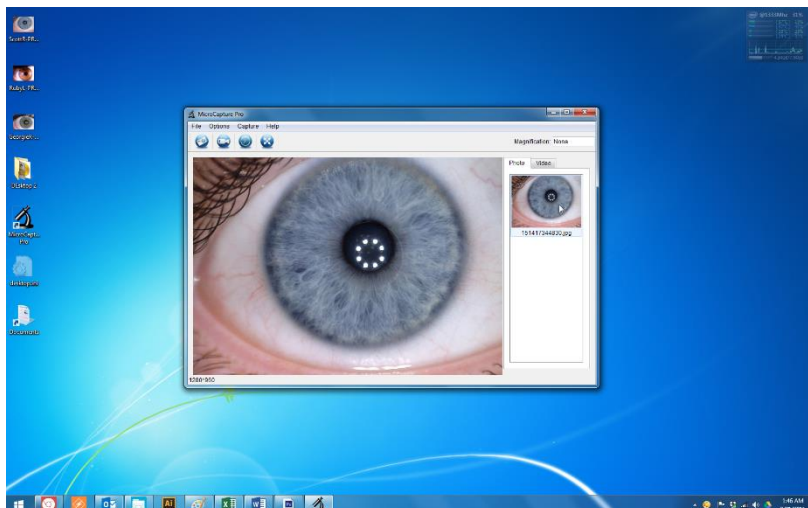
If the Pebble PRO is not properly connected the following screen will display. You need to reconnect the Pebble PRO and restart the software. (Try a different USB port)

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

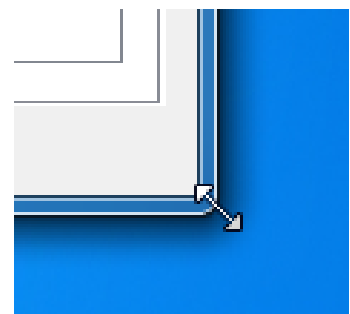
3. You will initially see a black screen, while the computer sets up the driver (click the balloon in the Rh bottom toolbar to check the progress) and then in about 5-10 seconds the live image will show. If the screen stays black unplug the Pebble PRO/8+2, close the software and start over (it may sometimes take 2-3 attempts and you may need internet access) We have found that **PRO Scope HR** and **Yawcam** are 2 programs that work with the Pebble.

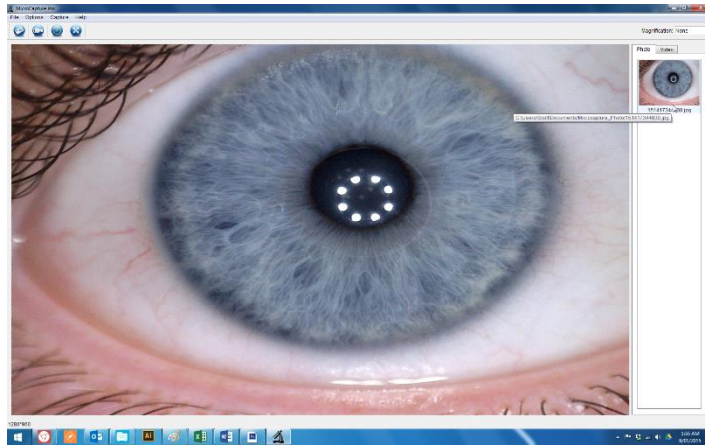
Change screen size:

4. When you open Microcapture Pro, it will open in a small window that doesn't occupy the entire screen as shown below.



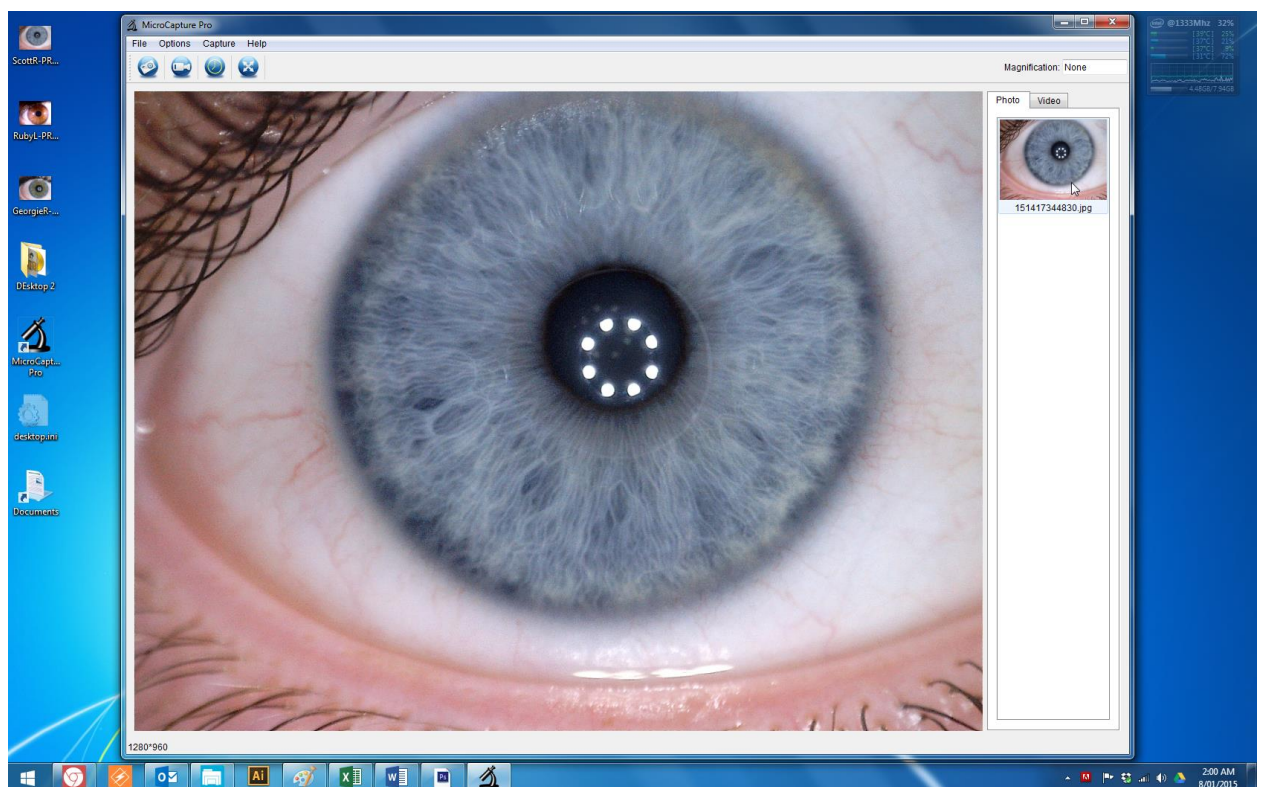
You can make the window bigger by hovering the cursor over the corners of the window, the cursor will change and you can click and drag. (See right)





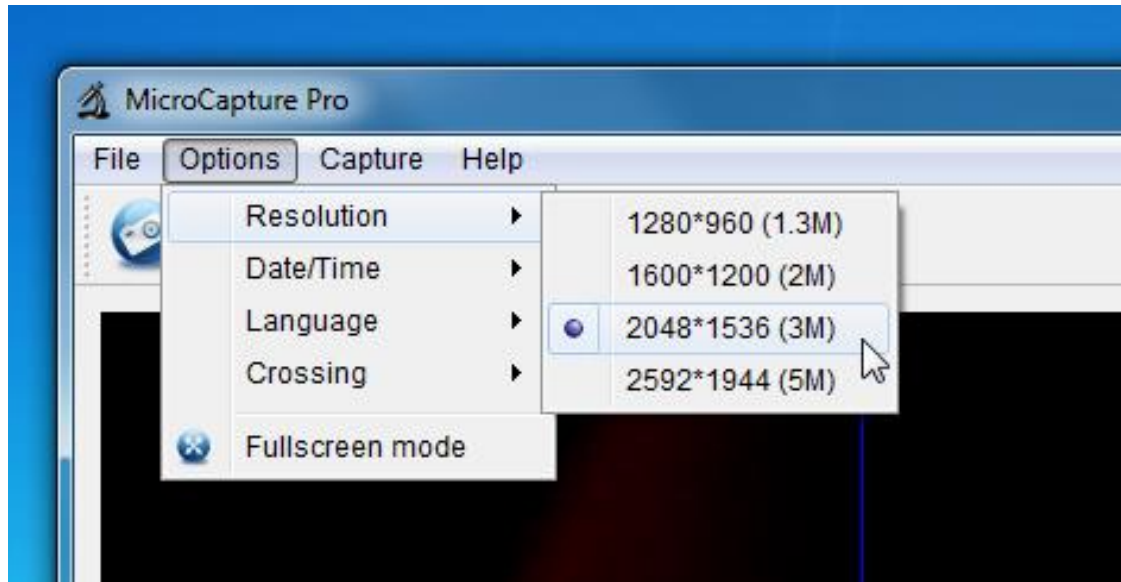
However, this can stretch the *live image* of the eye.

But even though the preview window will be stretched the iris photos will not be distorted. Just click OPEN to have the NORMAL aspect. This window will allow you to annotate and circle important iris markings.



Change resolution:

5. Now go to Options > Resolution and select 2048x1535 (3M) resolution as shown in the image below.



Focusing:

6. To practice bringing the Pebble PRO/8+2 into focus you can place the camera over a label on your keyboard or on your clothing. Practice this way first before using it on your patient's eyes. Slowly rotate the focus knob until the picture comes into clear view.
7. When you are more experienced place the Pebble-PRO over the eye and fine-tune the focus wheel slowly (*it is very sensitive*) until it is in focus.

Operation of LED Lights:

8. The light configuration you use depends on the colour of the iris. For brown eyes you should try to use the 2 side

lights as well as *all 10 LED's on*. Every eye is different so use the LED options that give the best results.

The lighting-control push button is located on top of the Camera Head (see page 5). Click the button to cycle the “Pebble PRO/8+2” lights through the following options.

Once you have selected the setting, you may change the brightness of the LED's by turning the little thumb wheel on the cable control panel (see page 5).

If there isn't enough light the iris photo will be of a poor quality whereas if the light is too bright the camera automatically adjust.

Asking your patient not to focus on the light can help to reduce any discomfort.

Lights OFF	Power saving mode
8 LED's ON	Blue Eyes
All LED's ON	Brown Eyes
2 Side Lights ON	Brown Eyes

Taking a photo:

9. Now press the snapshot button on the cord (*Pg 6*) or on the 8+2 camera without moving the camera and hold still for a 5 more seconds. (computer lag)

- If the image is too dark you may have the lights too low, try adjusting the LED Control wheel (*Pg 6*) or *change the LED lights (see page 13)*.
- 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 roughly in the pupil zone.
- Make sure the patient hold still without blinking after you click the button.

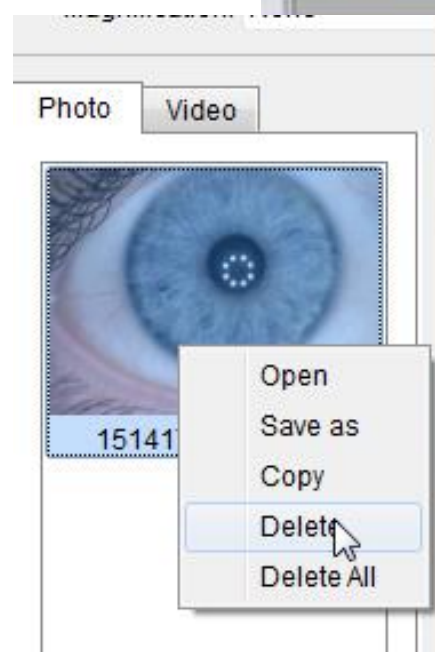
Iris photo Quick Preview:

10. 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 (🖱️) over any of the thumbnails and that image will be quickly displayed in the preview area, replacing the Pebble PRO/8+2 live view.
11. From looking at the quick preview, you can decide whether to delete the iris photo, or whether you want to view the photo full screen



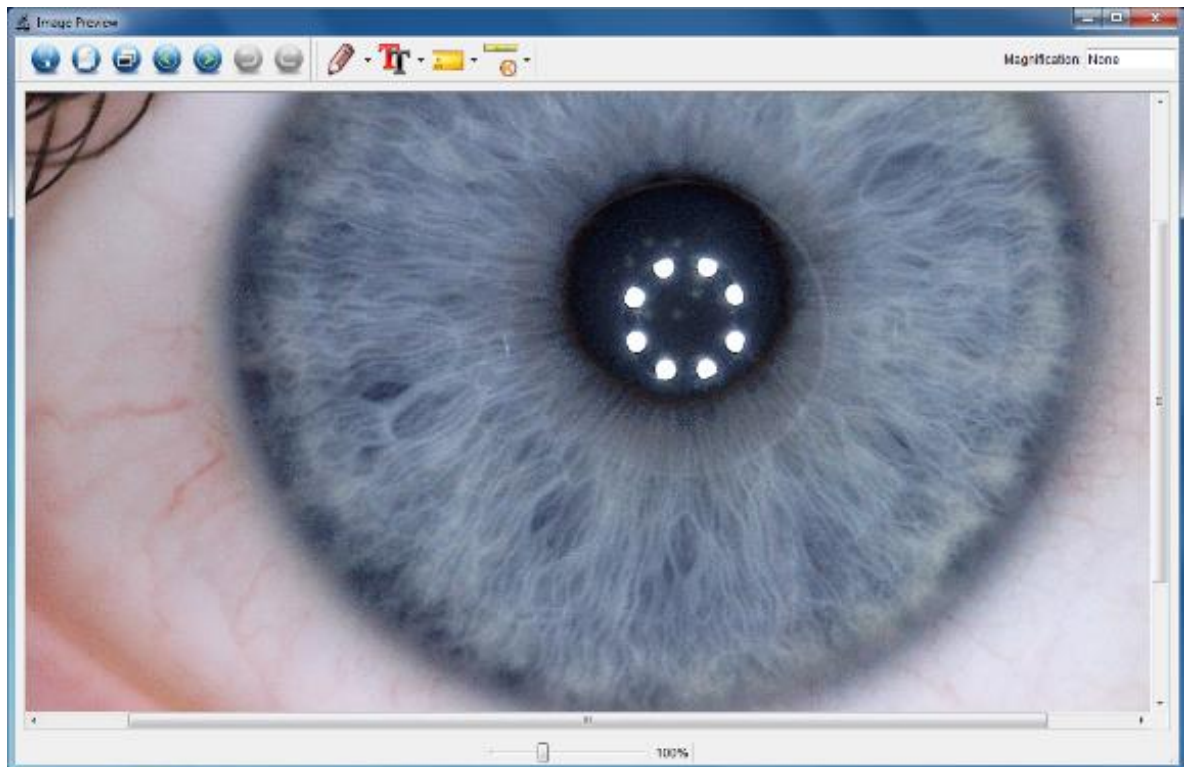
Delete an iris photo

12. To delete an iris photo right click on the thumbnail you wish to delete. Select 'Delete' in the menu that appears.

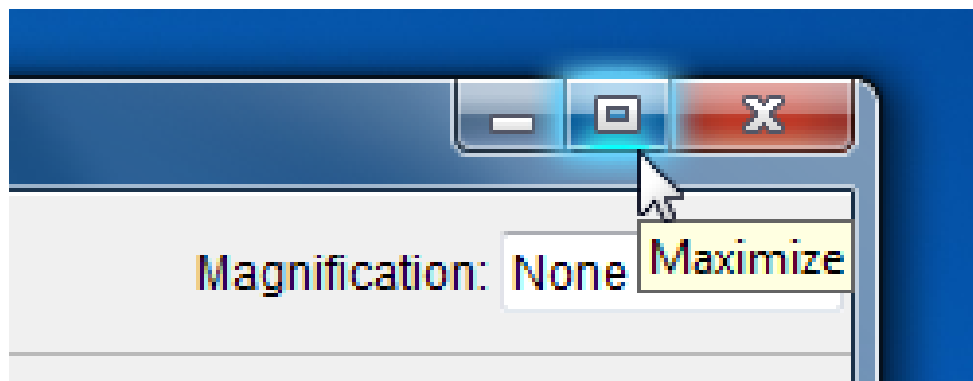


Using full screen Iris Preview

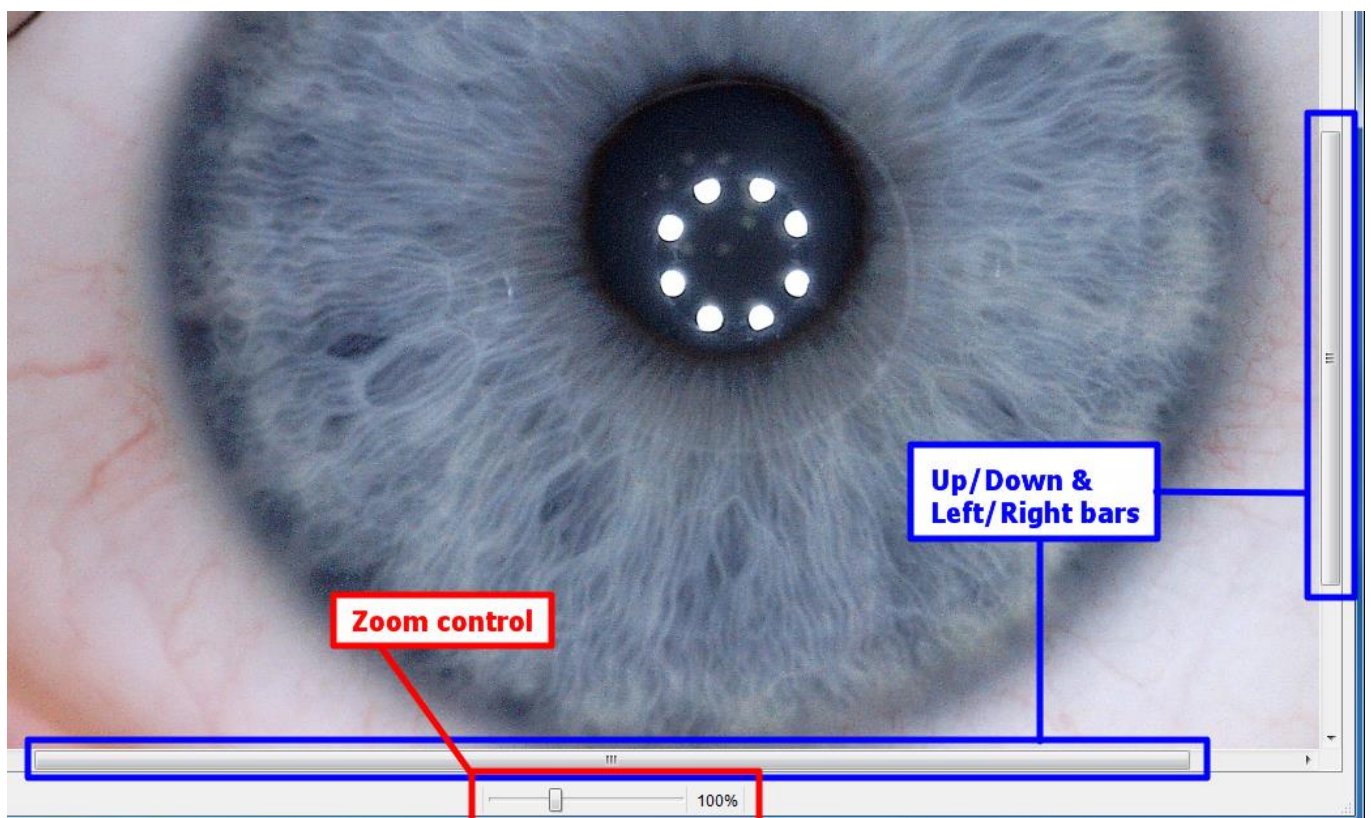
13. Double click on one of the thumbnails to bring up the full size preview window as shown below:



14. Click on the Maximise button at the top right hand corner of the screen to view your iris photos full screen.



15. Adjust the zoom with the zoom control (left = zoom out & right = zoom in) and use the scrolling bar to move up/down left right

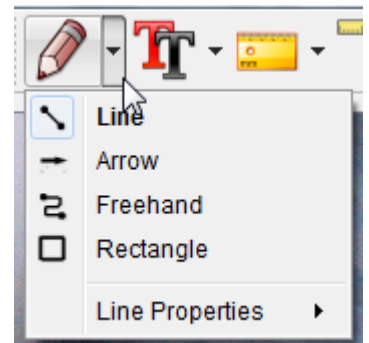


Annotation

16. You can draw / annotate on your patients iris photos using the annotation tools.

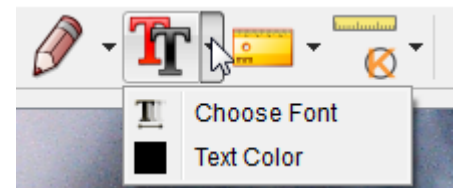


17. To use free draw, lines or rectangles click on the down arrow to the right of the pencil icon. Once you have selected an option, use the mouse to draw on your iris photo.



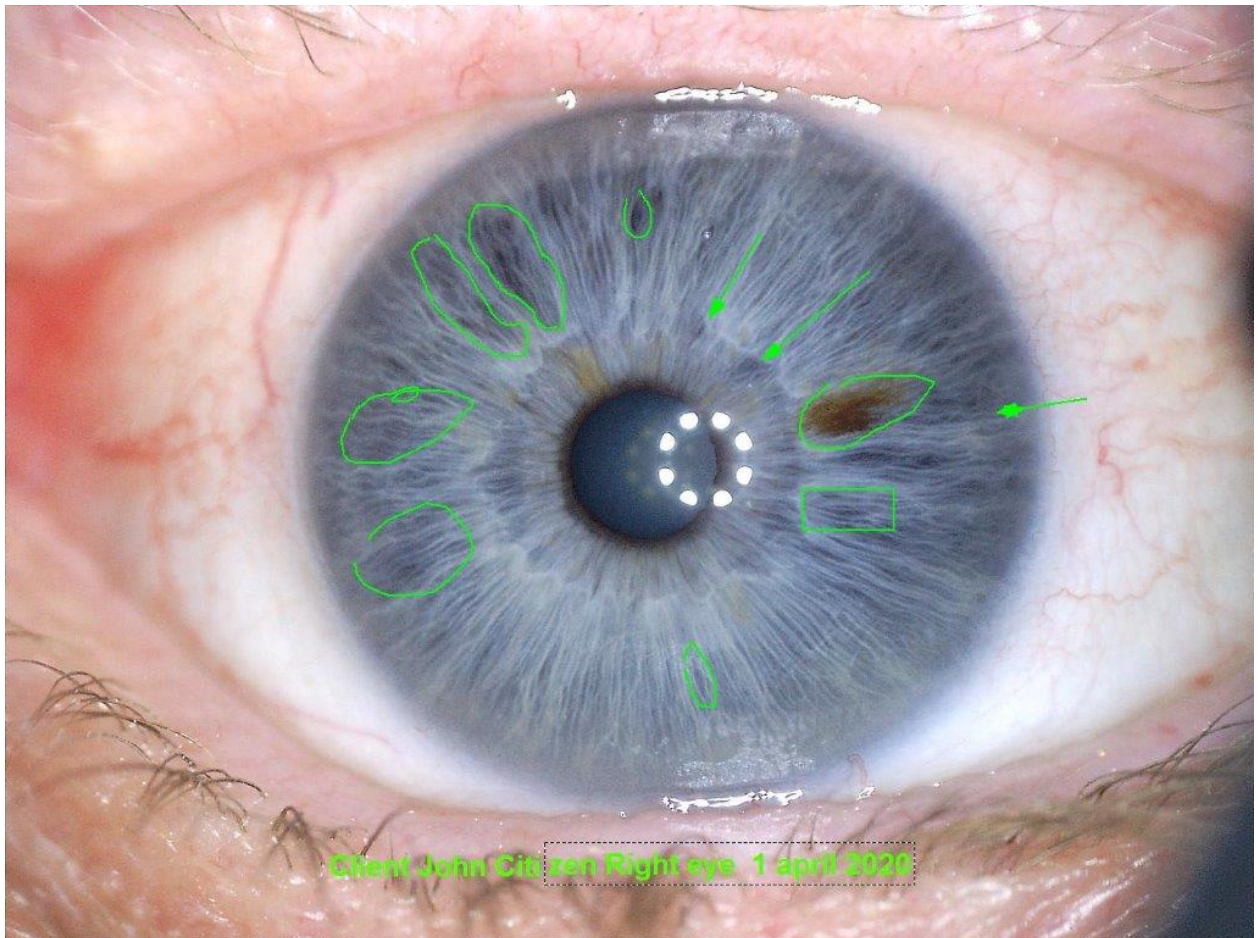
You can also change the colour of the lines by clicking on 'Line Properties'

18. To add text to your annotations, click on the down arrow to the right of the 'TT' icon. Once you have chosen your font, size and colour. Click on the iris where you want the text to start and type.



19. Click the 'Undo' (left) and 'Redo' (right) buttons to undo and redo your annotations respectively





Save an image.

20. You can also save an image from the full screen preview window by clicking the save icon (right)



Create a folder with the patient's name in which to save the dated image files.

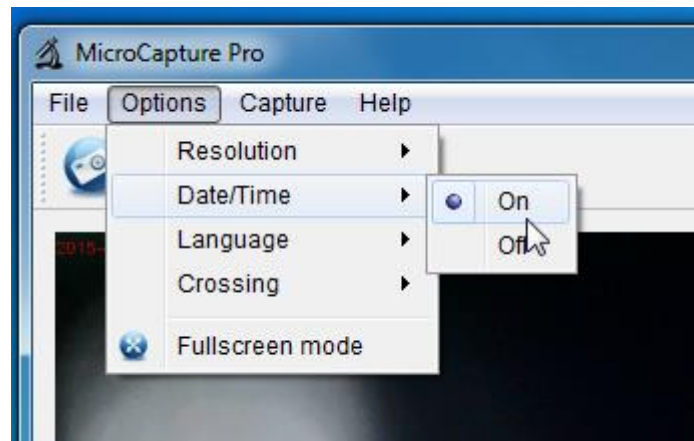
Another way you can also save an image is by right clicking the appropriate thumbnail followed by clicking the "Save".

Additional Functions

MicroCapture

Date/Time Option

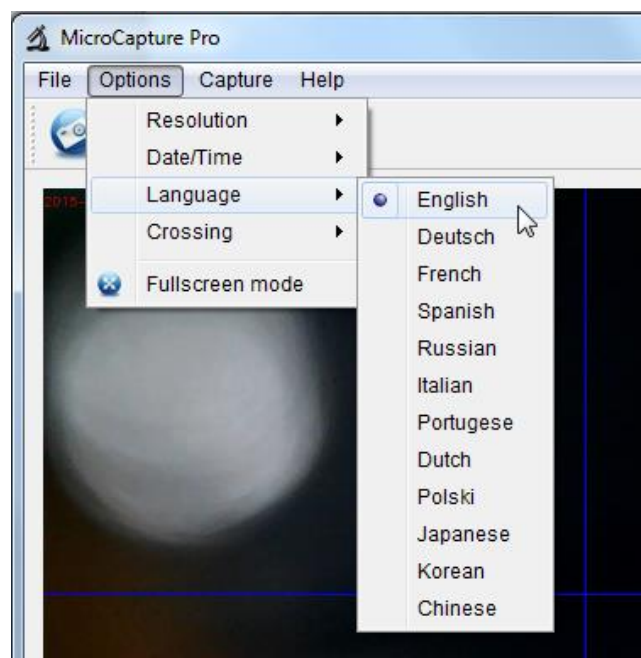
You can set the Date and time to ON or OFF under Options > Date/Time



We recommend turning Date/Time ON, to help keep your iris photos better organized

Language

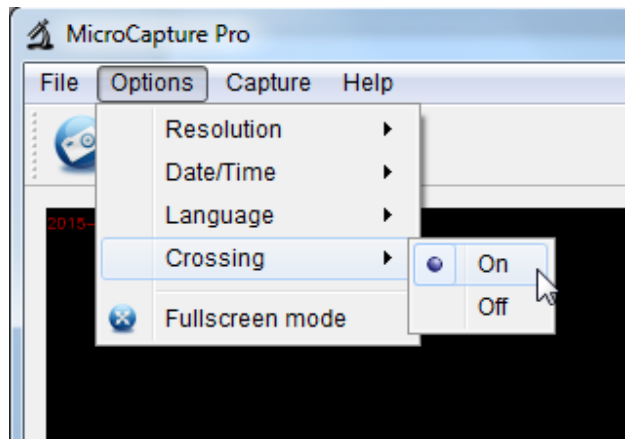
You can change the on screen language under Options > Language



Crossing (Blue Crosshair in Preview)

You can turn the blue cross hair in the Live preview to ON or OFF under Options > Crossing.

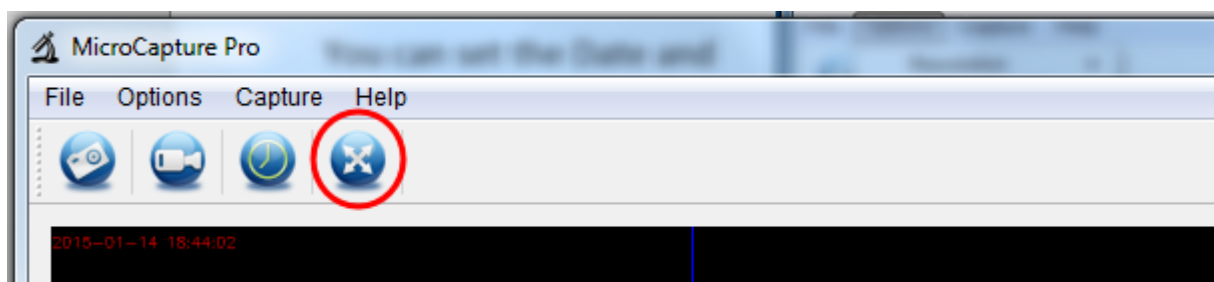
Whether or not you use crossing is up to you. It may help you better centre the iris, however it is not essential to use this option.



Full Screen Mode

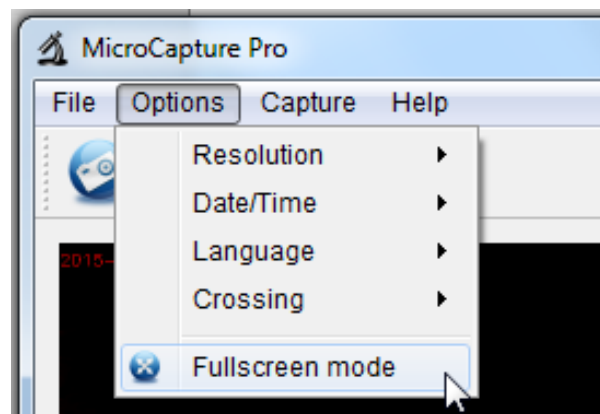
There are 3 ways to enter or exit Full Screen mode.

1. Double Clicking the Live Preview area.
2. Clicking the Full Screen Icon



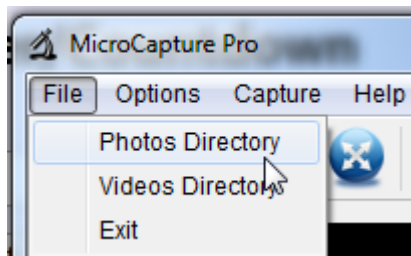
3. Selecting “Full screen mode” from the options menu.

To exit Full screen mode, double click the screen or press ‘esc’



Note: Depending on your monitor size, using full screen mode can stretch the live preview. The captured iris photos will not be oval and you are still able to tell if the iris is in focus. If the distortion bothers you, you can resize the window normally (see page 9)

Adjusting the Save Directory




If you select File > Photos Directory a window will open where you can see where the iris photos are stored and change this directory.

On Windows 7 the photos are saved in C:\Users\YOUR USERNAME\Documents\Microcapture_Photo


You can change this by navigating to where you want the photos to be saved (e.g. My Pictures) then click the ‘Select Folder’ button

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.

Timer Mode

The software comes with a timer function, however it is not very useful for taking iris photos. Press the  icon to bring up the timer window.

Start time = When the capture will start

Interval = Amount of time between photos

Total Number = Total number of photos taken

Once you have set the options, click the Start button to begin the timer.

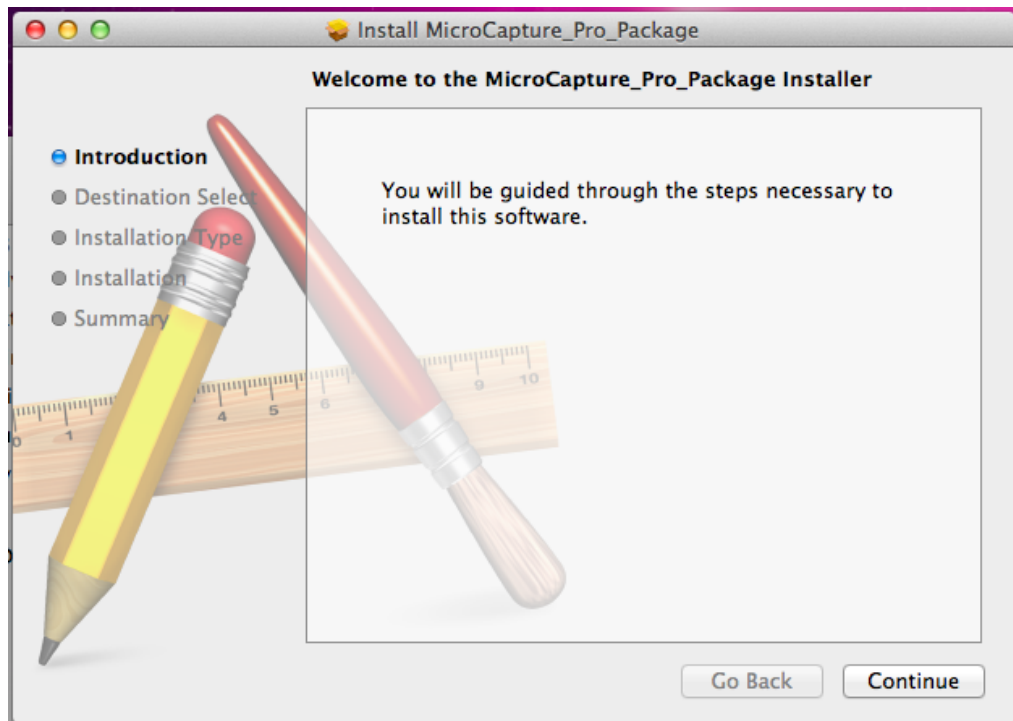
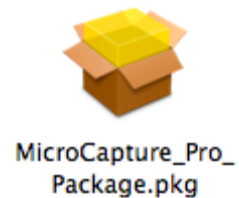
Mac Installation Quick Guide

1. To install MicroCapture PRO/8+2, insert the installation disc to your computer and click on (open) the CD icon that appears on your desktop.

If you don't have a CD tray we can send you a link to download the installation files, or you can use Photobooth

2. In the Microcapture CD, open the 'mac' folder followed by opening the 'MicroCapture_Pro_Package.pkg'

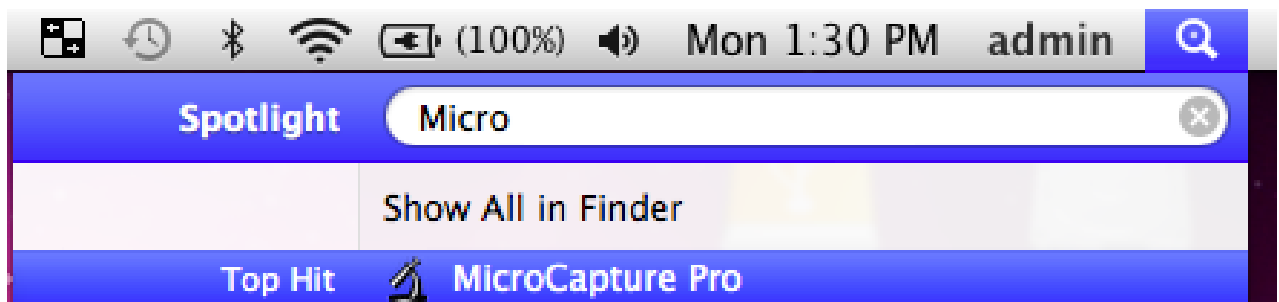
The installation setup will open (as below). Just follow the prompts and keep pressing the 'Continue' button



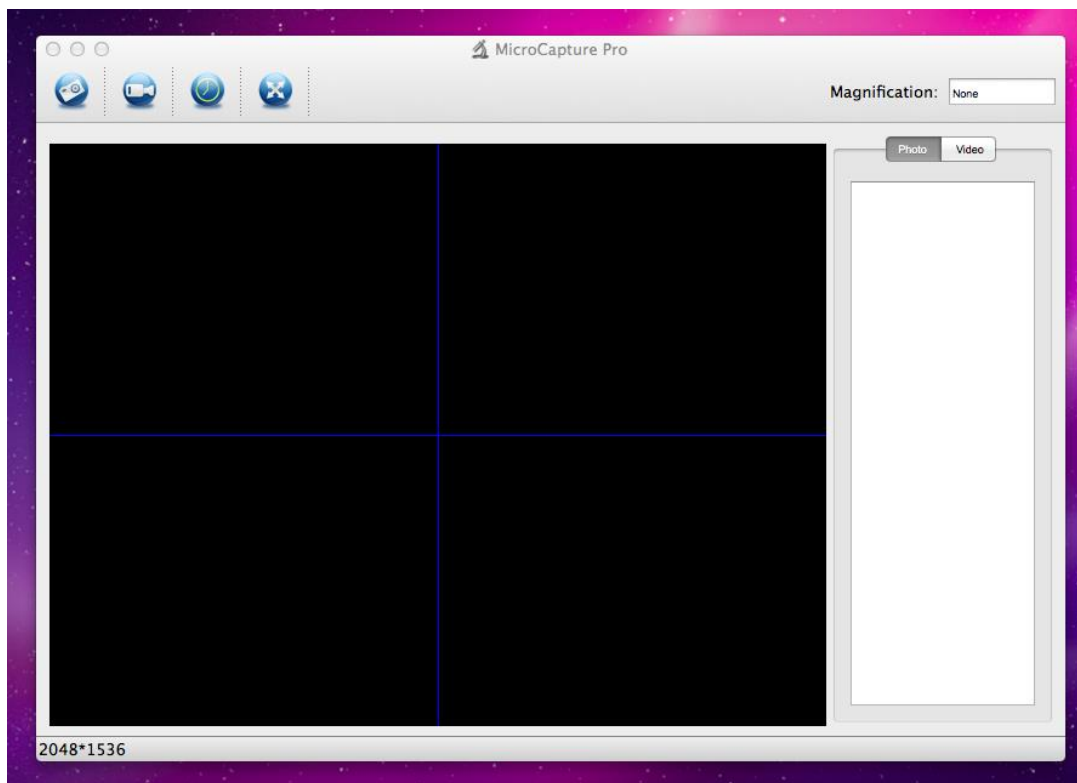
3. Once the installation has finished you can find MicroCapture Pro in your Applications Folder



Or you can search for 'MicroCapture Pro' using Spotlight (magnifier at top right hand corner of screen)



4. Upon opening MicroCapture Pro you will see the following window to use the software.



The software works exactly the same as on Windows Computers. (See pages 8-21).

The only exception is that Mac software does not support the Snap Button (pg 5).

Maintenance and Updates

- Although the LED lights can last 13 years or longer, you may turn OFF the LED lights with the push button switch. This will have your laptop run cooler in very hot climates.
- The eyecup may be cleaned with rubbing alcohol between patients.
- No further maintenance is required. Just ensure that you keep the device dry, clean, dust free as well as making sure that you do not drop it, nor putting extra strain on the cord by wrapping the cord around the camera body.

Warranty

- For updates of this manual, please visit www.iridology.nl regularly, sign in and click the “*downloads/updates*” tab.
- Suggestions and ideas are also welcome by email. Please use leo@care.cc - we are always working on new ideas...
- 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 send your camera to us postage paid. We will either repair or replace your camera and send it back to you. Beware if you update your computer or operating system it is likely that PRINTERS, CAMERAS and software will NOT work anymore.

- We have NO control over that. So take care and think it over...is it worth to keep up with the latest operating system??

Software issues

If you are stuck please download this software.....

<https://www.bodelin.com/proscope/software>

For WIN MAC and LINUX

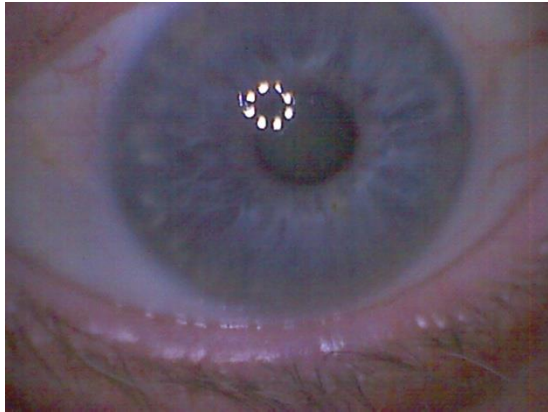
Image Capture and other Problems Win / Mac

Explanation: *Error message*

Solution: If after using the camera successfully one day the error message "*No device detected*" shows, up close the program, unplug the camera and put it back in an different USB port and open the program again. Also check in **START – Devices** and printers and see if the camera is listed there.

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 Images #2

The image is blurred or out of focus

Explanation: Look at the lights in the centre of the pupil, if they are distorted similar to the image on the top; you have moved the camera while taking the image. The image below was taken without moving the camera (The Lights are perfectly round and in focus).



Solution: Keep the camera still by placing the eyecup firmly against the patient's eye-socket and press the snap button without moving the camera, then hold the camera in position for a few seconds after you have pressed the snap button. Let your patient know to hold still for 2 seconds AFTER the click.

Example Image #3

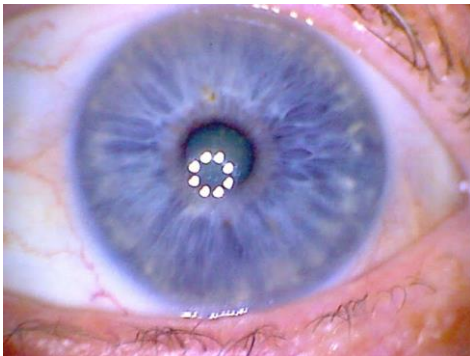
The image is slightly blurred. But It is almost a clear image.

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 just a little longer after clicking the snap button to compensate for the lag caused by your computer).

Keep in mind that the eye is a ball and as with ANY macro photography the edge will be furry when the centre is ... sharp. The final sharpness can be obtained by applying more or less pressure to the eyecup.

If you continue to shake the camera when pressing the snap button you can use the left mouse to click on the camera icon to take pictures.



Foggy image: In extreme climates the temperature of the camera can change rapidly (from cold to warm) the camera image can become foggy (like breathing on a mirror) when you first turn it on.

You do not need to do anything just let the camera settle for 5-10 minutes with all the lights turned ON and all will be OK.

Computer does not recognise camera, error message.

Try different USB ports and make sure the camera is plugged in BEFORE opening the program. You can also go to START, select DEVICES and PRINTERS and see if the camera is there. You must have only ONE camera so disable the build-in camera. Sometimes it will take 10 or more seconds for the camera to show as the computer will automatically install the driver from its operating system. You may see a balloon in your right hand bottom tool bar.

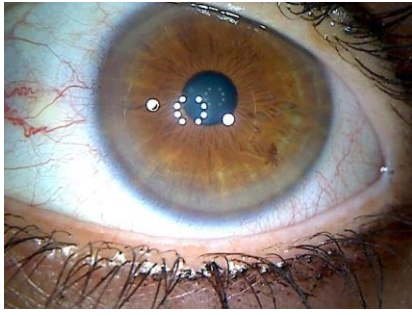
If you installed new software for say for a printer, the set of drivers included in that software package can upset the camera driver.

So if you have problems delete all the (printer) drivers you do not need for your model of printer.

If you are stuck please download this software.....

<https://www.bodelin.com/proscope/software>

For WIN MAC and LINUX



Brown Iris Photographs

Taking good images of brown eyes is a challenge with any camera, no matter how expensive. To improve the quality of images of true brown eyes we have installed 2 LED lights in the front of the Pebble PRO/8+2. The side lighting will cast more shadows and therefore improve the quality of the picture.

Unfortunately it seems common for brown eyes to have an opaque cornea, which will show as a white cloud over the iris and this is like driving through fog; if you use more light, your visibility will decrease. So if you encounter this problem use the minimum amount of light for best results. Please remember that a camera is like a mirror it will show the image as it sees it, it cannot improve the image.!

In difficult cases, or with children who are unable to keep their eyes still, or have white coat phobia make sure to show them that you are just taking a picture also you may take a number of pictures and diagnose by using these "Partial shots" that you have taken. Why not let them take a picture of your eye first?

If all else fails have a quick peek in the child's eye with your iris torch.

Technical Specifications

Image sensor	True 5 Mega Pixels (20MP interpolated)
Still capture resolution	2592x1944 (5Mp), 2048x1536 (3.1Mp), 1600x1200 (2Mp), 1280x960 (1.2Mp)
Video capture resolution	1280x960
Focus Range	Manual Focus from 0mm to 150mm
Magnification Ratio	Optimized for Iridology
Video format	AVI
Photo format	JPEG
Light source	8 Daylight LEDs plus 2 Side light LEDs selectable as 8-10-2-OFF with controllable intensity by thumbwheel
PC interface	USB 2.0 or higher
Power source	5V DC from USB port
Operation system	Windows XP/Vista/Win7/ Win8/Win10 Mac 10.6~10.8*
OSD language	English, Deutsch, Spanish, Russian, Italian, French, Portuguese, Dutch, Polish, Korean, Japanese, Chinese
Capture software	EyeRonec MicroCapture Pro V3

*Not all features are supported by Mac software





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[revision](#)

[29/2/2016](#)