

# AOS Anterior – User Guide

User Manual – Medical Product/Medical Software - AOS Anterior  
Advanced Ophthalmic Systems Ltd (AOS)



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This user guide is subject to periodic review, update, and revision. Customers are cautioned to verify that the user guide's information applies to the AOS medical software AOS Anterior.

This medical product performs as described in this manual.

The user of this medical product shall have the sole responsibility for any problem that results from improper use or alteration by anyone other than AOS.

The safety, reliability, and performance of this medical product can only be assured under the following conditions:

- The medical product has been used according to the accompanying operating instructions in this user guide.

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## 1. Introduction

### 1.1. About this guide

This document describes how to use the AOS Anterior v2.0 software package for analysis of digital images of the anterior of the eye.

This document also describes any system requirements and potential limitations due to image size, image quality and visible artefacts contained within the image.

The AOS Anterior software is designed to perform analysis and provide results for the following examination types;

Bulbar redness

Lid redness

Fluorescein (corneal staining)

The results given are intended as a diagnostic support tool for clinicians. Please refer to our Terms and Conditions for information on usage, licensing and subscription.

### 1.2. System Requirements

The specification below represents the minimum hardware requirement for Windows OS 7. AOS Anterior v2.0 can be run on a PC based machine with provided specification without any performance issues.

Hardware Component	Feature	Value
CPU	Speed	1GHz
	Cache	1MB
HDD	Quantity	1
	Capacity	5GB
	RAID	None
RAM	Capacity	4GB
Display	Resolution	Minimum height of 1024

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		Recommended 1920 x 1024
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## 1.3. Minimum Software Prerequisites

Following table provides minimal software requirements for device on which AOS Anterior should be installed.

Software Component	Feature / Version
Operating System (OS)	Windows 7, Windows 10
.NET framework	4.6.2

## 1.4. Supported Image file types

Description	File extensions
Windows Bitmaps	BMP, DIB
JPEG	JPEG, JPG, JPE
Portable Network Graphics	PNG
Portable Image Format	PBM, PGM, PPM
Sun Raster	SR, RAS
TIFF	TIFF, TIF
Open EXR HDR	EXR
JPEG2000	JP2

## 1.5. Support Information

The updates and new features that you receive are dependent on the package or subscription level that you purchased. The [www.aos-hub.com](http://www.aos-hub.com) website provides all support documentation, including tutorial videos and support portal.

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## 2. Safety

	Medical product AOS Anterior is CE marked. AOS Anterior, CE Class I

### 2.1. General Safety Instructions

	Please read this document before using the AOS Anterior product. Changes or modifications not approved by Advanced Ophthalmic Systems Ltd could affect the safety and effectiveness of the medical product and will void the system's warranty.
	If you require further information regarding this medical product, please contact Advanced Ophthalmic Systems Ltd.

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## 3. Installation and setup

### 3.1. Accessing the AOS Anterior software

Upon purchasing AOS Anterior software you will be directed to a download page. This page will contain the latest available version. A Quick Start User Guide is also packaged with the file.

Once purchased, the file will download automatically and self-extract to begin the installation process.

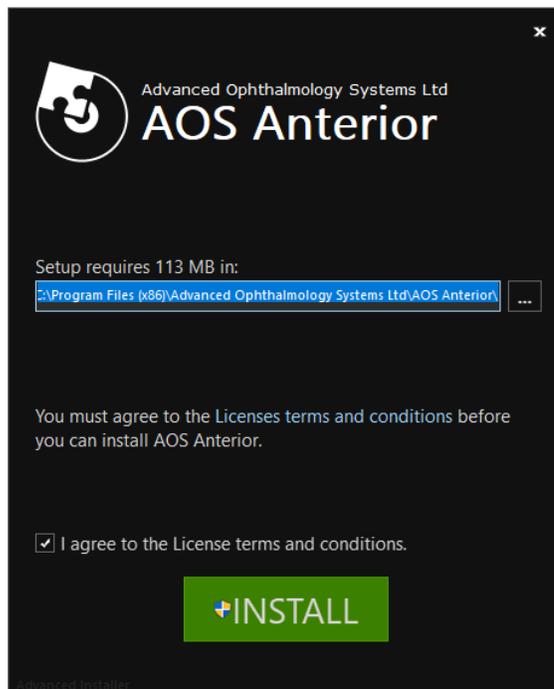
### 3.2. Installation

Installation is per workstation. There are no user profiles to create. Once the application is purchased, installation will automatically begin. Follow these steps to install AOS Anterior to your local machine

Click on the link to begin the download and automated installation. You can 'run' the setup file once it is downloaded or 'save' it to an alternative location and run it from there. You may want to do that if the computer you are working on is not the computer to be installed upon.



Click 'Run' to start the installation process on the local machine and the following window will appear



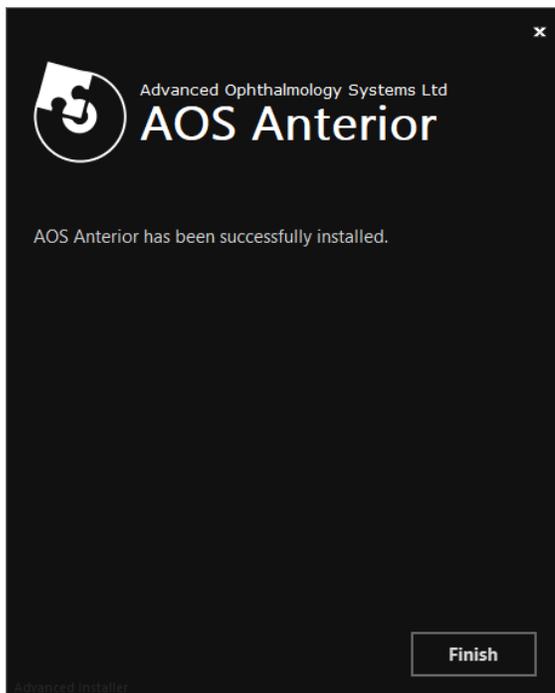
Check the box to agree to the Terms and Conditions, then select the green 'Install' button to install the software to the specified location. You may change this location by selecting the file location and editing or browsing for the new location.

#### NOTE:

Your computer or any installed security software may advise you further that you are amending system files and request your approval to continue.

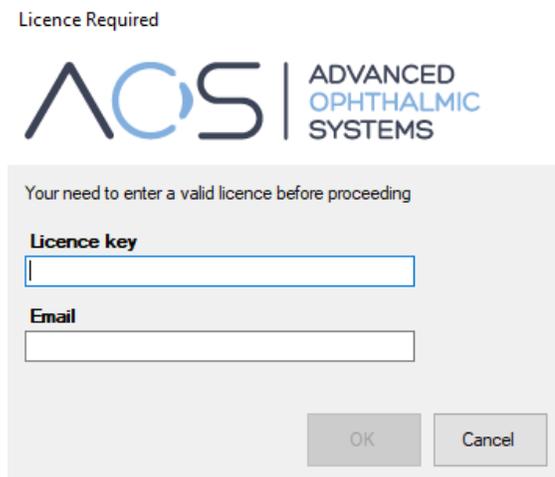
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Once the files are installed you will be notified at the following screen. At this point the AOS Anterior icon is installed on your desktop.



### 3.3. Product registration and licensing

Your product license will be mailed to you and is tied to the email address used in the product registration process. When you start the software for the first time you will be prompted to enter the license key and email address.



### 3.4. Software updates

The application automatically searches for any new updates or features if there is an internet connection available when the application is started.

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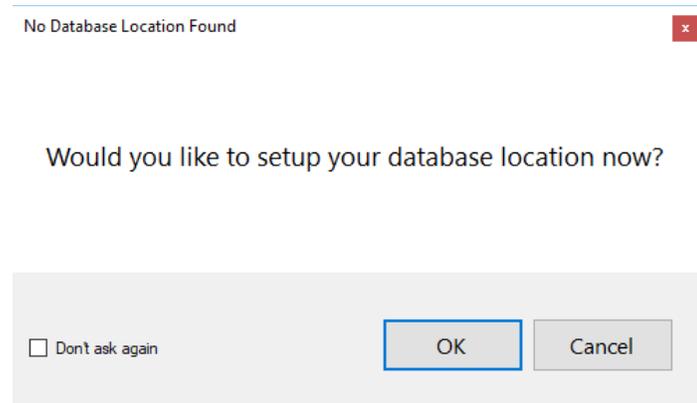
## 3.5. Application settings

### 3.5.1. Setting your 'Home Drive' location

This option allows you to set a folder as a home folder that images or reports will be saved to by default, or images are to be accessed from.

Setting this option means that every time you select File > Open, you will automatically be taken to this folder. The app will ask if you would like to set a database location when installing the app:

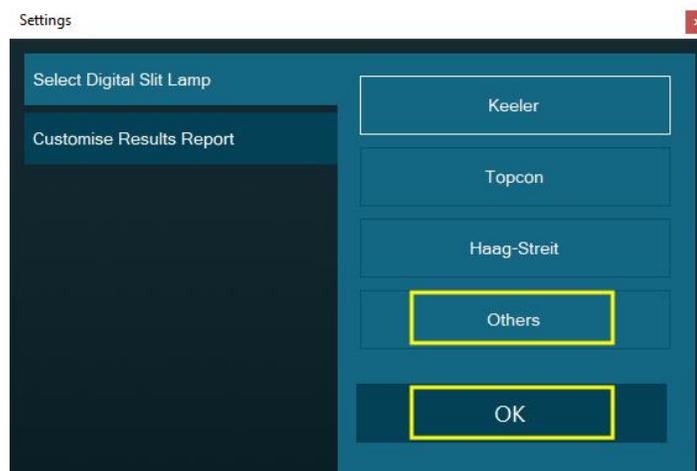
The **Set Home Drive Location** feature is also available from the 'File' menu if you did not set it up when installing the application.



When setting the Home Drive location, the app will simply open the standard windows explorer so that the user can easily find the folder where the images are stored

### 3.5.2. Choosing your Digital Slit Lamp

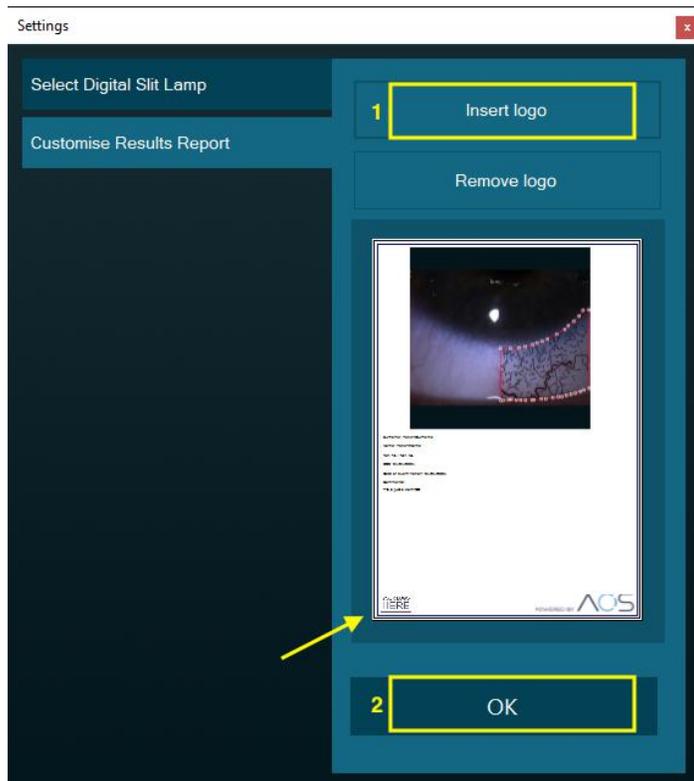
You can choose your slit lamp manufacturer from this menu, as the software is calibrated to various manufacture colour settings. If your manufacturer is not on the list, select Others for our standard colour mapping.



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## 3.5.3. Adding your brand to your patient reports

You can add your brand logo to your customer report also. First click **Insert logo** and browse to your logo file to add it. When complete your brand logo will appear in the bottom left of the report.



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## 4. Desktop & mobile User accounts

### 4.1. The Admin account

The email account specified during the purchase process is linked to the product licence key. Once the licence is activated this account is deemed the Admin account and may also use a mobile account.

The Admin user may create 4 further mobile (Companion App) accounts to be used with each licence.

#### 4.1.1. The mobile user account

Once a user has a mobile account they can ;

- Capture and transfer images with the mobile app
- Login and transfer (download) images to the Anterior application for analysis and reporting

#### 4.1.2. Creating a mobile user account

Once a user is created within the Anterior desktop application and authenticated, the user receives an email containing their password, plus the store links to download either the iOS or Android app.

- The login is the email address specified
- The password is system generated and emailed to the user

The screenshot shows a web interface for user management. On the left, there is a sidebar with 'USERS' and 'PASSWORD MANAGEMENT' options. The main content area is titled 'Create new user'. It features three text input fields: 'First name', 'Last name', and 'User email address'. At the bottom of the form, there are two buttons: 'CANCEL' and 'AUTHENTICATE'. A yellow rectangular box highlights the three input fields.

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## 4.1.3. Password management

Each user may change the system generated password in the Password Management tab.

- Enter new password
- Confirm password
- Select Authenticate

The user will receive a message confirming the password change to the associated email address.

## 4.1.4. User management

Mobile users can be deleted and replaced as required. Deleting a user will also delete their cloud storage, and therefore any images that have not been downloaded will be deleted also.

## 4.2. The AOS Mobile Companion App

The AOS mobile companion app allows the user to capture images on a mobile device and transfer them securely to the AOS Anterior desktop application for analysis and reporting.

Images can be captured two ways; either directly using the in-app camera, or by attaching it to a slit lamp adapter to allow you to use the light source and beam splitter.

To aid with image consistency the flash will automatically turn on when using the in-app camera. When using your device in a slit lamp adapter, the flash will remain **off** to utilize the light source of the slit lamp itself.

**The app is available for both iOS and Android devices**

### 4.2.1. Downloading and activating the app

When you purchase the Anterior desktop application, your order confirmation email contains links to the Anterior Companion App at the Apple and Play (Google) stores.

Mobile users that are added via the Anterior desktop application will receive emails containing;

- the store links
- username and password

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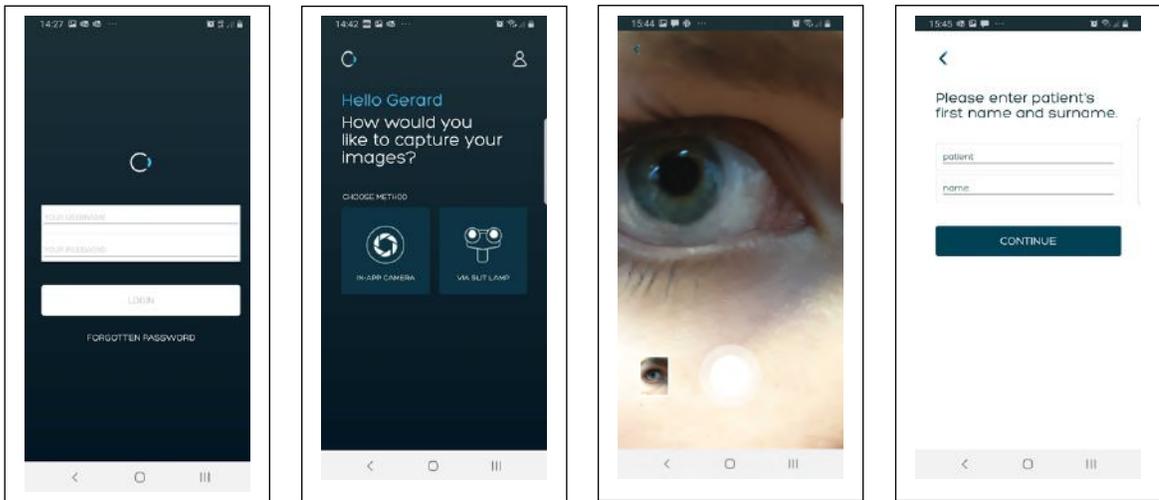
## 4.3. Getting started with the AOS Mobile Companion app

Once logged in you will see help screens which you can choose to skip through to get started. You will need to allow the app to use the device camera.

### 4.3.1. Camera setup and image capture

You may use the in-app camera or capture images with your slit lamp using a phone adaptor.

When using the in-app camera the flash on your device will automatically turn on. The flash will remain off when using an adaptor and your slit lamp.

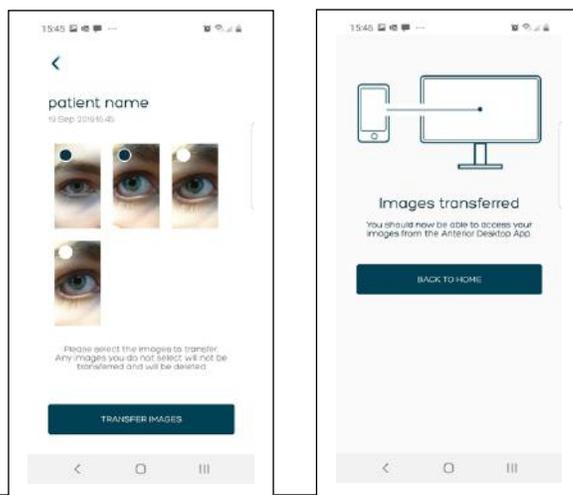


### 4.3.2. Entering your patient name

You may enter a name for the set of images captured. All images will be transferred as a folder and may be downloaded as a folder within the Anterior desktop application.

### 4.3.3. Transfer images

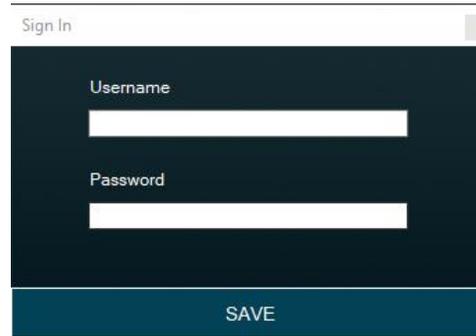
Click on the image thumbnail to go to the gallery and view the images. Remove unwanted images by selecting EDIT and then selecting the minus sign to remove a particular image. When complete click DONE and then 'Transfer Images' and your images will be transferred to your cloud account.



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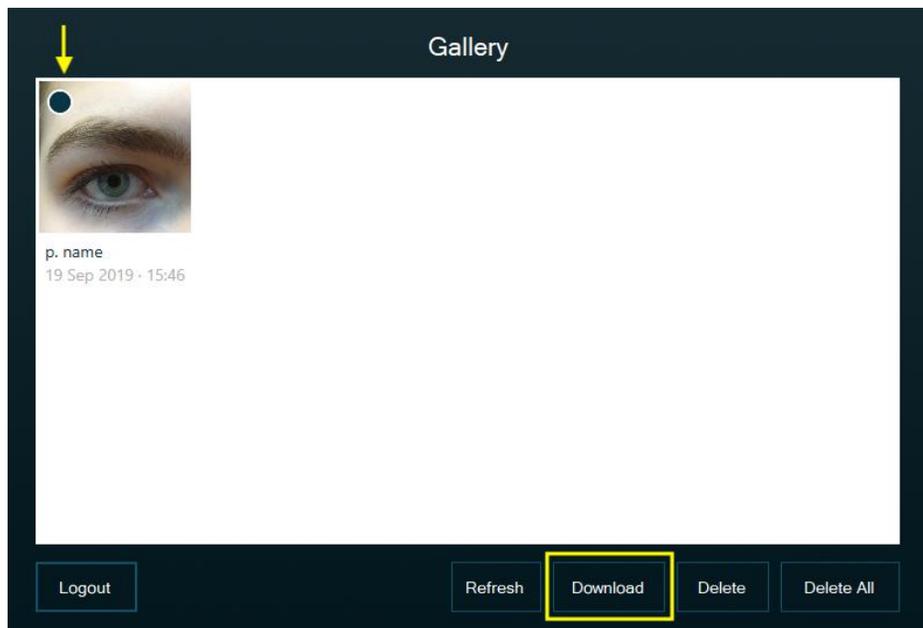
## 4.4. Downloading the images to your AOS Anterior desktop application

Open the application and click on the Transfer button. Login with your username and password that you used to login to the Mobile app.

A dark-themed sign-in form with a 'Sign In' header. It contains two input fields: 'Username' and 'Password'. Below the fields is a blue button labeled 'SAVE'.

### 4.4.1. Opening images to analyse

The gallery stores images in folders. You can download an entire folder (patient batch) or double click to enter a folder set and download individual images.



- Select the folder to download by clicking on the white dot and click 'Download'. All the images in the selected folder will be zipped together.
- You will be prompted where to save the zip folder in your Windows file structure.
- Right click on the folder and select Unzip to unzip the images. You can now access them from the Anterior application to analyse.

### 4.4.2. Online gallery storage guidelines – IMPORTANT

- The gallery is for transfer purposes **only**, it is not a database.
- Once images have been downloaded they are deleted from the online gallery.
- Images will be automatically deleted if not downloaded after 1 week.

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- Ensure when capturing images using the Anterior Companion App that each patient is captured in separate batches to avoid multiple patients in a single folder.

## 5. Getting started with AOS Anterior

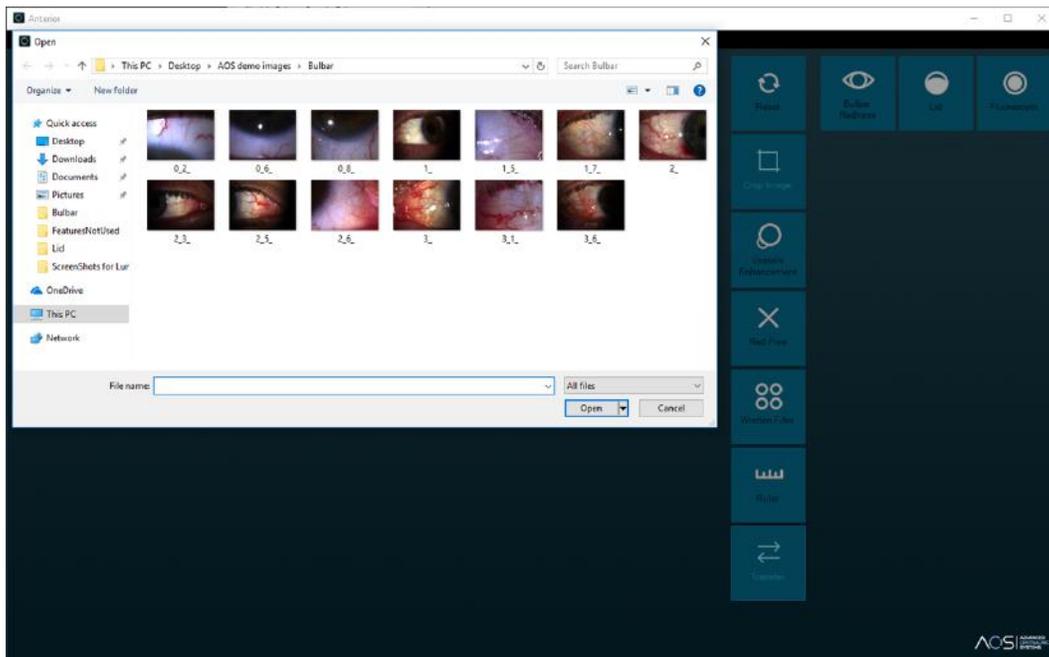
### 5.1. Application basics

Start the application by selecting and double clicking the AOS Anterior icon on your desktop or selecting it from the Windows menu. The application will prompt you if there is an update available and give you the option to download the update now or later.

### 5.2. Loading an image to analyse

Patients' images are saved in a computer location or external device connected to the computer (e.g. a memory USB stick, external hard drive or a smart phone). Hence, the user can launch the AOS Anterior app and load the patient images simply by browsing the computer folders and load the patient's images into the app to be analysed. See browsing window in figure example below:

Select the **File** menu and **Open** to navigate to your image folder and select the image you want to analyse.



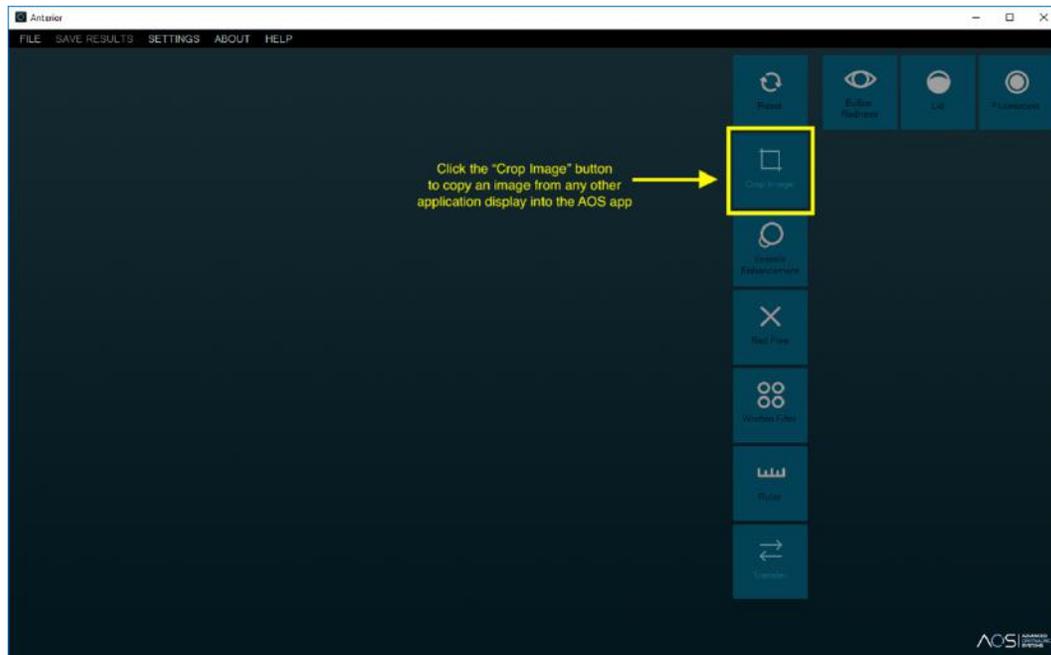
### NOTE:

Please see section 7 for importing images captured by the AOS Mobile Companion App

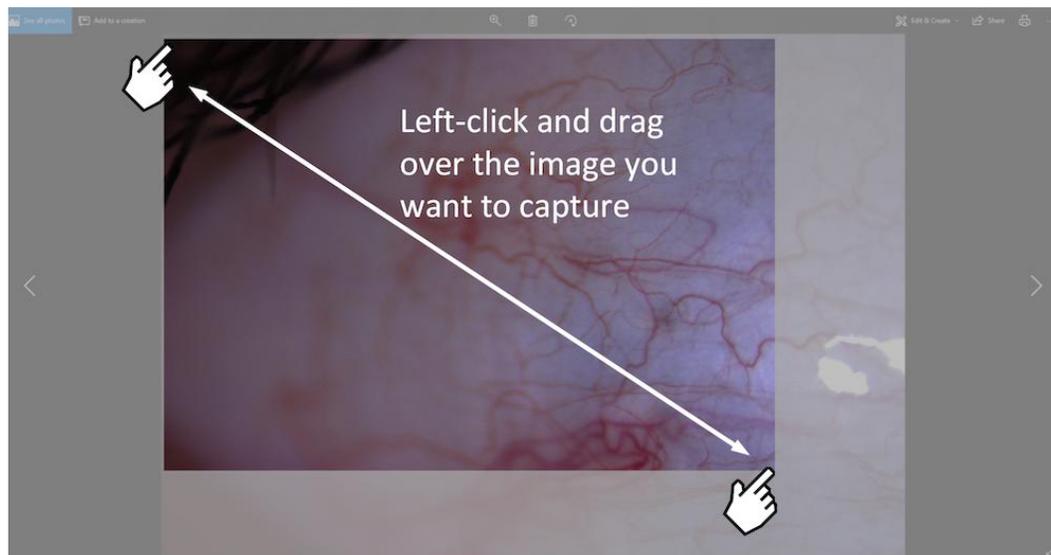
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## 5.2.1. Using the Crop tool to load an image

Alternatively, the user can open any image, in any application, and easily crop it into AOS Anterior. Click on the “Crop Image” button as shown below, and once the screen has brightened, you can crop (“click and drag” with the mouse button) the image on the screen.



The image you crop is then automatically imported into AOS Anterior and able to be analysed. This feature is especially handy when using imaging software that drives your Slit Lamp. For instance once you have taken an image, you can immediately crop it into AOS Anterior.



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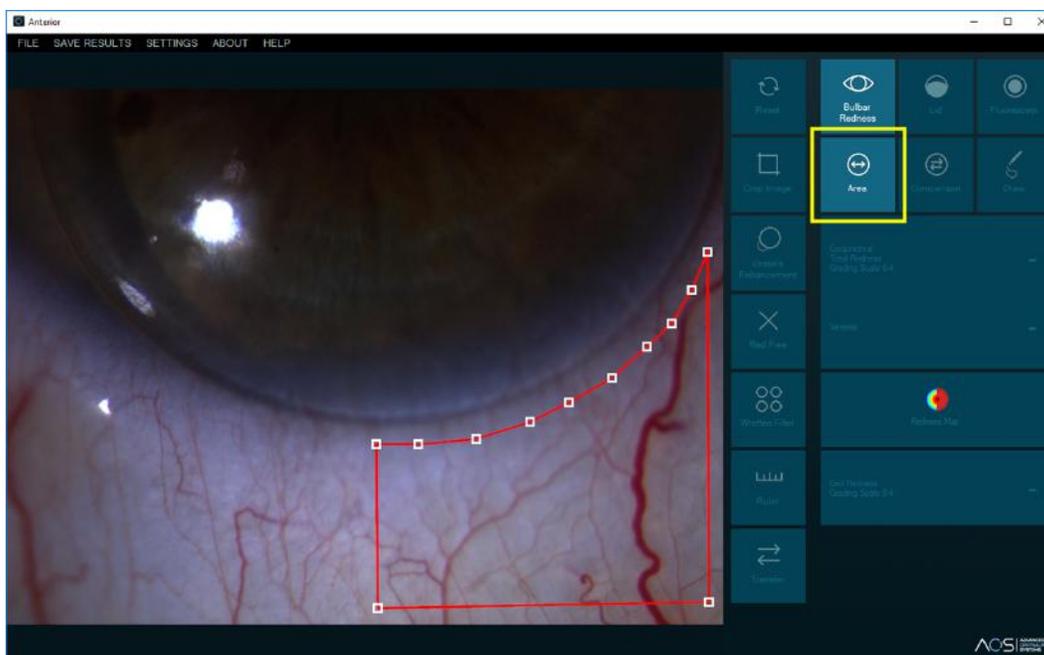
## 5.3. How to draw an area or line

The AOS Anterior application makes drawing an area to analyse or a line to highlight an area, extremely easy. The user can draw in **all** modes on any image. Drawing is as simple as selecting either the **Area** function and clicking on the image to add anchor points and creating your area. If there is a **Draw** function available (in Bulbar mode) again, click on the image to add your anchor points.

**Tip:** To either close an area or end a line, right click the mouse

The buttons to the left of the Control Panel; Reset, Vessel Enhancement, Red Free, Wratten Filter and Ruler will clear the area when checked, but when unchecked the area will reappear.

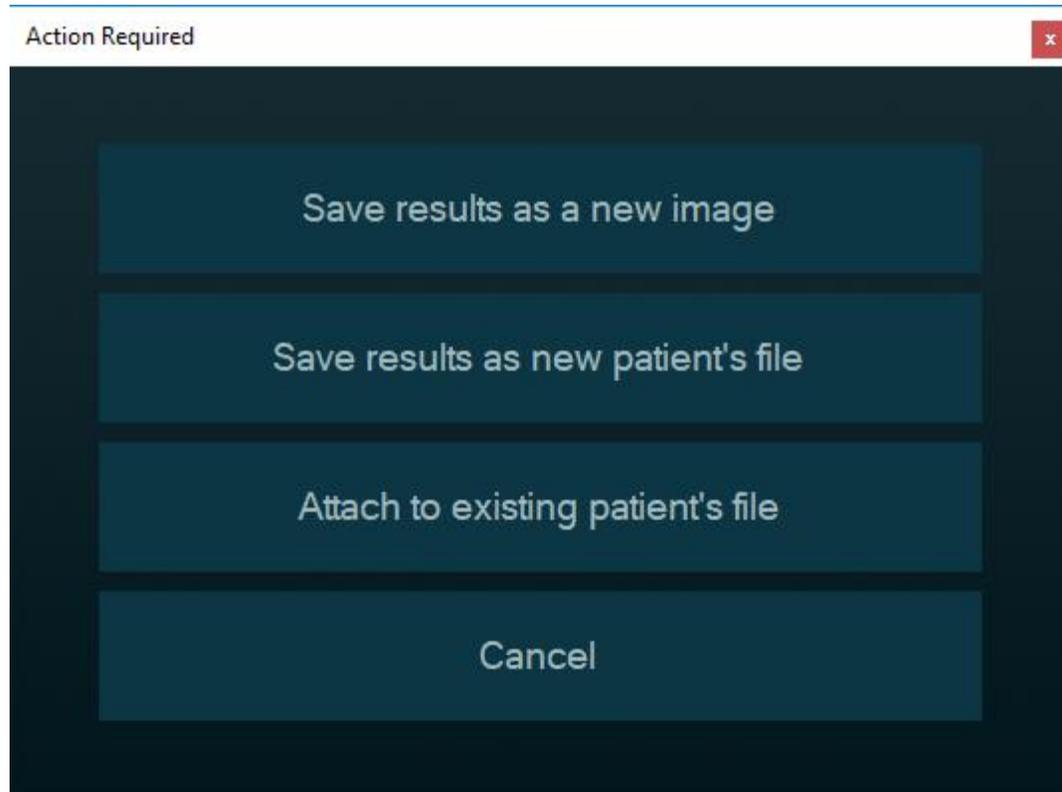
- Left click your mouse to draw an area by adding anchor points and right click to complete
- Increase the accuracy by adding anchor points by clicking on the red area perimeter line
- An anchor point can also be dragged around the image to increase accuracy
- To correct an error or start over, click outside of the area and you will be prompted to start over



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## 5.4. Saving the analysis results file

On the main menu, click on “Save Results” to open a list of options allowing user to save the results as an image only, or as part of a PDF report that includes the patient details and results of each analysis performed.



## 5.5. File format and naming convention

Images can be saved as either PNG or JPEG. Patient files are saved as PDF. When a report is created the user can enter other details such as the date of the examination and details of each examination being reported on.

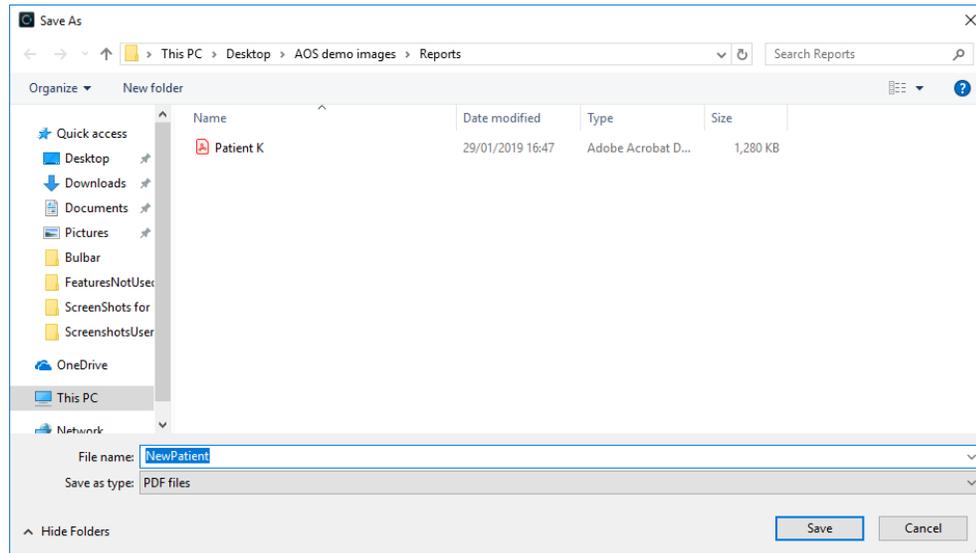
If you are ‘adding to an existing’ report, you must ensure the report is not already open or the file cannot be appended to. This is a limitation of PDF not the Anterior application.

Every subsequent image analysis (for instance, of Lid Redness or Staining) can also be saved and appended to the initial report to create a fully detailed report for the patient. This can be of great assistance in patient follow ups in creating a patient history.

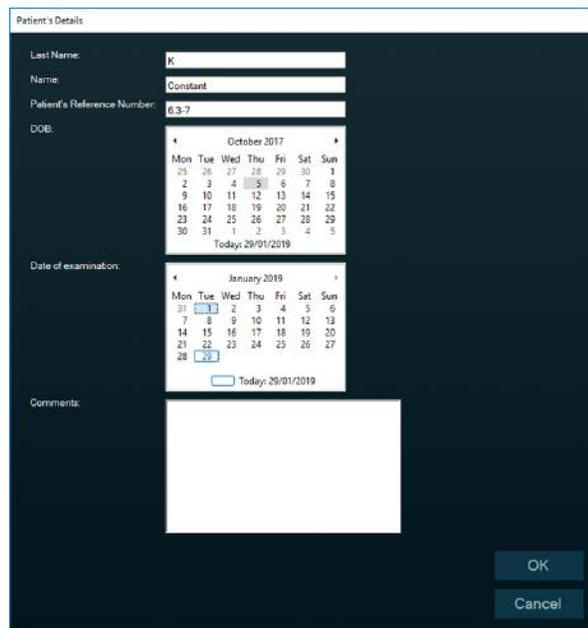
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## 5.6. Saving a new patient report file

- To save a new patient report file, select 'Save Results'. When the option box is displayed, select 'Save as new patient's file'
- Now enter the filename as you would normally save your patient files, in the chosen patient's folder



- The user is presented with a dialog box to now enter the details of the patient; Name, Surname, Date of birth and examination date and any relevant comments.

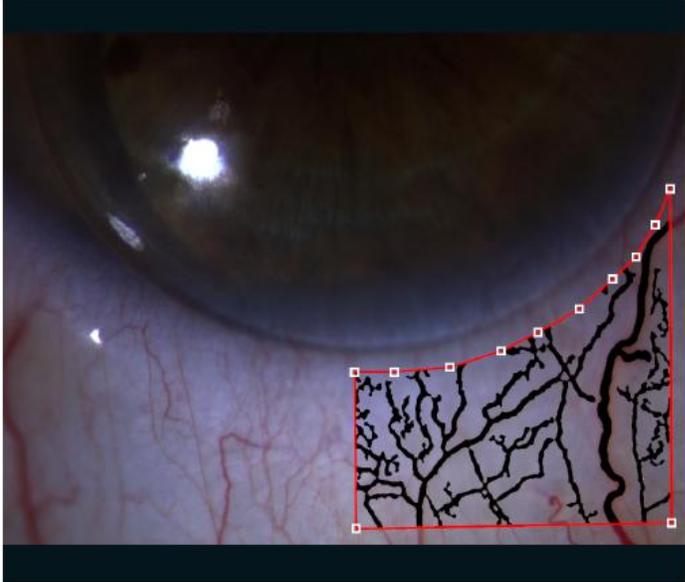


To navigate through the years and months, double click on the year or month to be presented with a calendar style view where you can easily select the years and months you need.

An example report page is shown on the next page. You can see that your company logo may also be added into the report.

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- Once complete the user clicks ok and is presented with the report as shown below.



Surname: K  
Name: Constant  
Ref. no.: 6.3-7  
DOB: 05/10/2017  
Date of Examination: 29/01/2019  
Comments:  
CTRG 1.0

Conjunctival Total Redness Scale 0-4: **1.0**  
Vessels: **24%**

Brand logo inserted into the Patient Report



POWERED BY 

## 5.7. Attaching a new image analysis to an existing result file

To attach subsequent image analysis results for the same patient to an existing file, select 'Save Results' and select 'Attach to existing patient's file' on the dialog box.

The folder containing the existing file is automatically displayed. Select the file to append the results to. The Patient Details box appears where the user can add new examination date information and any new comments.

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**NOTE** : Remember that when adding to an existing report, the report cannot be open at this time.

## 6. Using AOS Anterior application features

Selecting the correct image to analyse is the responsibility of the user. For example, the user must ensure they select images relating to the patient requesting the examination.

Whilst performing the analysis the correct images must be loaded for each mode selected.

### 6.1. Using the Bulbar Redness tool

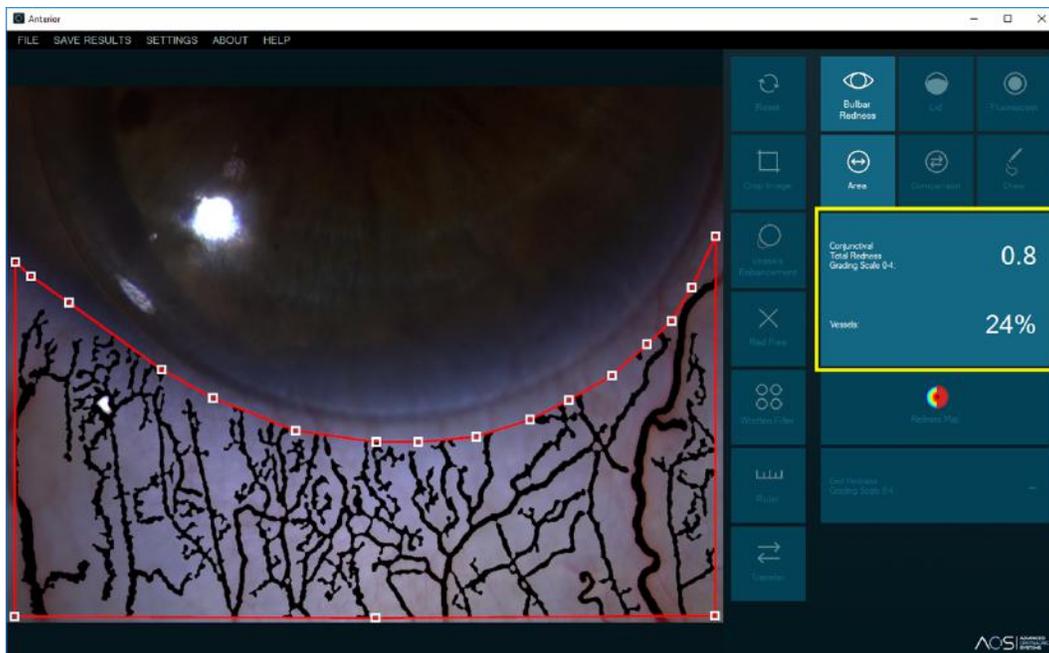
The Bulbar Redness tool presents results showing the Conjunctival Total Redness on a 0-4 scale and the Vessel coverage for the selected area. Results are shown in the Control Panel.

There are three features in Bulbar Redness mode; **Area**, **Comparison** and **Corneal Arc**.

### 6.2. Using Area mode

Results using Area mode can also be presented using the **Grid Redness** tool and the **Redness Map**. These options are available in the Control Panel.

- Select an image to analyse (see **Section 4.2**)
- Draw an area to analyse (see **Section 4.3**). Tip – right click to close the selection area
- Click in the results area within the Control Panel for the results to be displayed

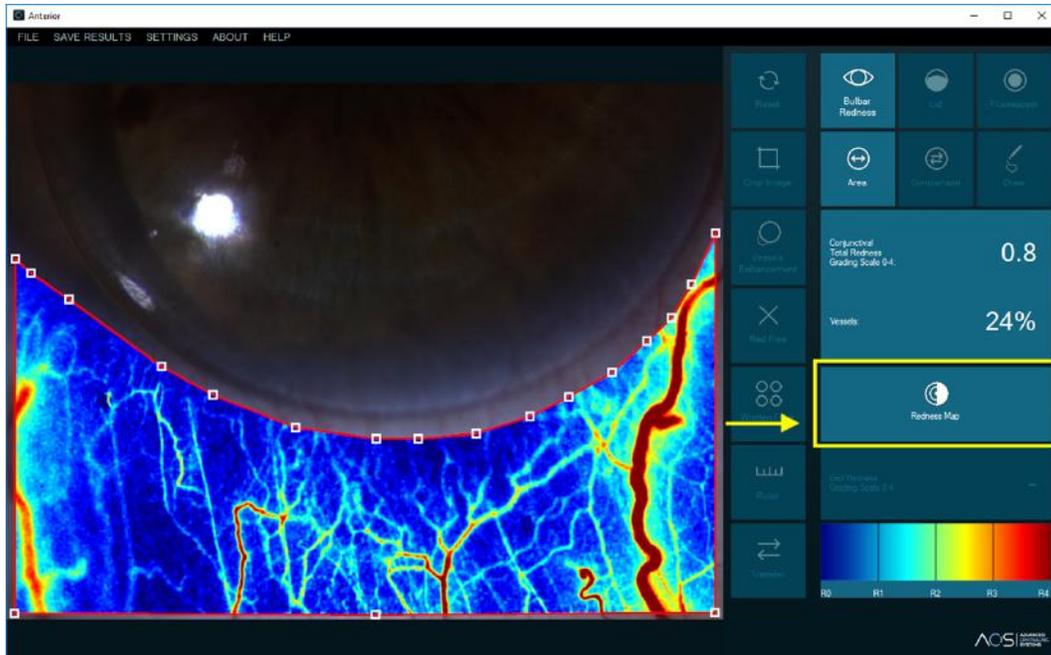


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## 6.3. Using the Redness Map

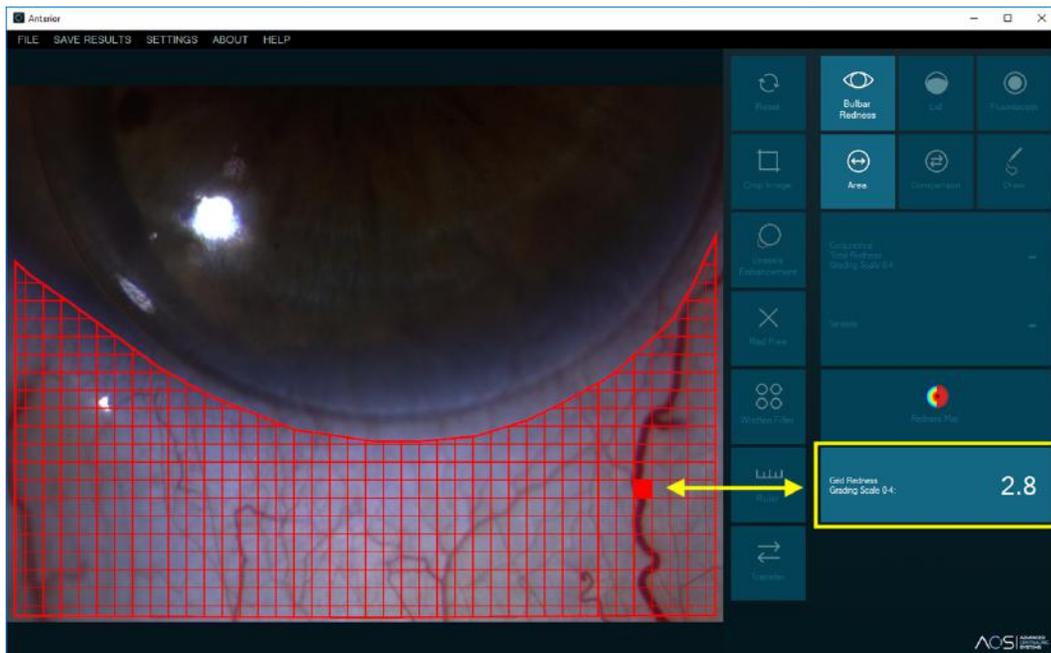
The drawn area can also be displayed using a colour Heatmap.

The Conjunctival Total Redness is displayed as you move the mouse cursor over the image.



## 6.4. Using the Grid selection tool

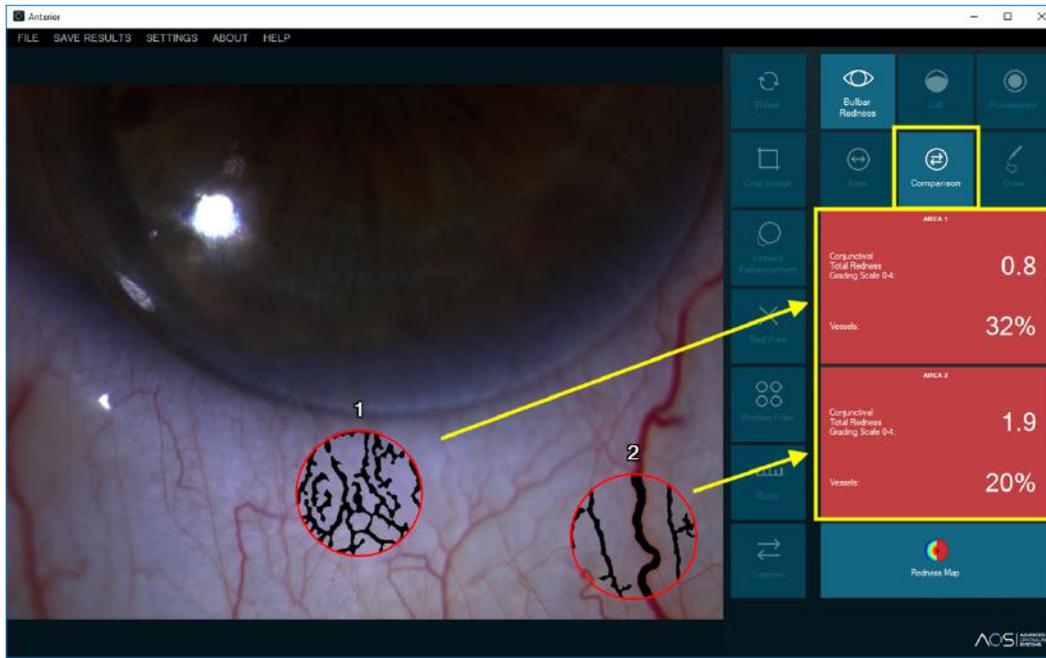
The user can select specific areas of the area by selecting the 'Grid Redness' tool.



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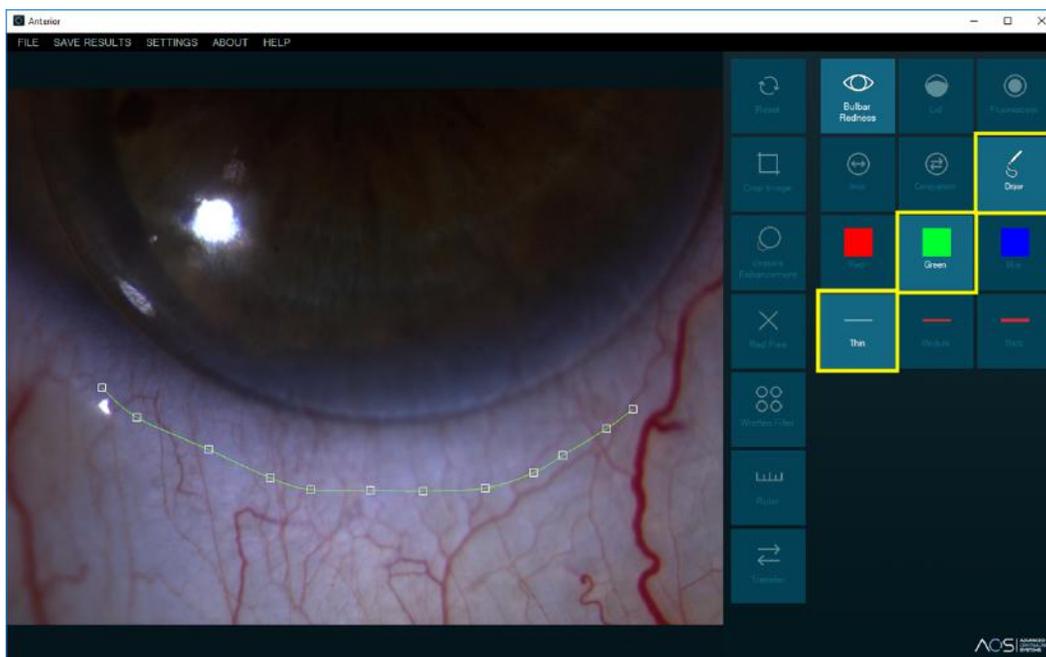
## 6.5. The Area comparison tool

The comparison tool draws two identical circles on the image. They can be moved independently, but both resize or reshape together. Click in the Control Panel to display both results. Move each circle using the 'hand' cursor to reshape or resize both simultaneously.



## 6.6. The Draw tool

It's possible to simply draw a line over the captured image to highlight an image.



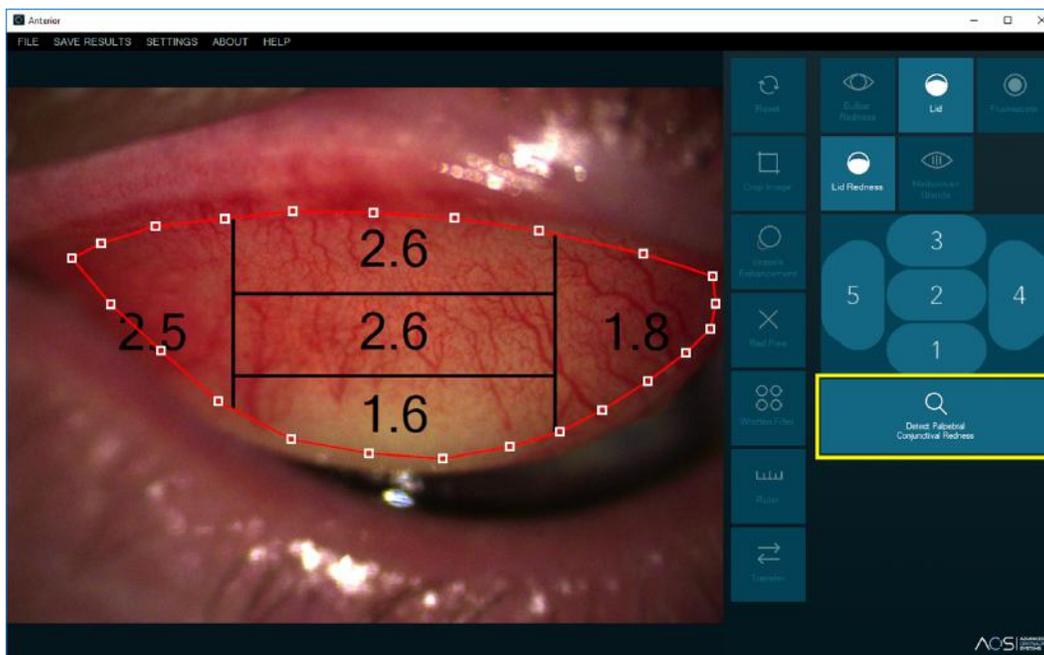
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## 6.7. Lid Redness

The Lid Redness tool detects Palpebral Conjunctival Redness, again using the 0–4 scale. It presents results in the industry standard 5 sector grid. Lid Redness mode is activated in the Control Panel, shown in orange.

### 6.7.1. Detect Palpebral Conjunctival Redness

Draw an area to analyse using the Area tool (See **Section 4.3**). For results of the drawn area, click on either the results area of the Control Panel or the image. Results are displayed within the image in the 5 sector grid.



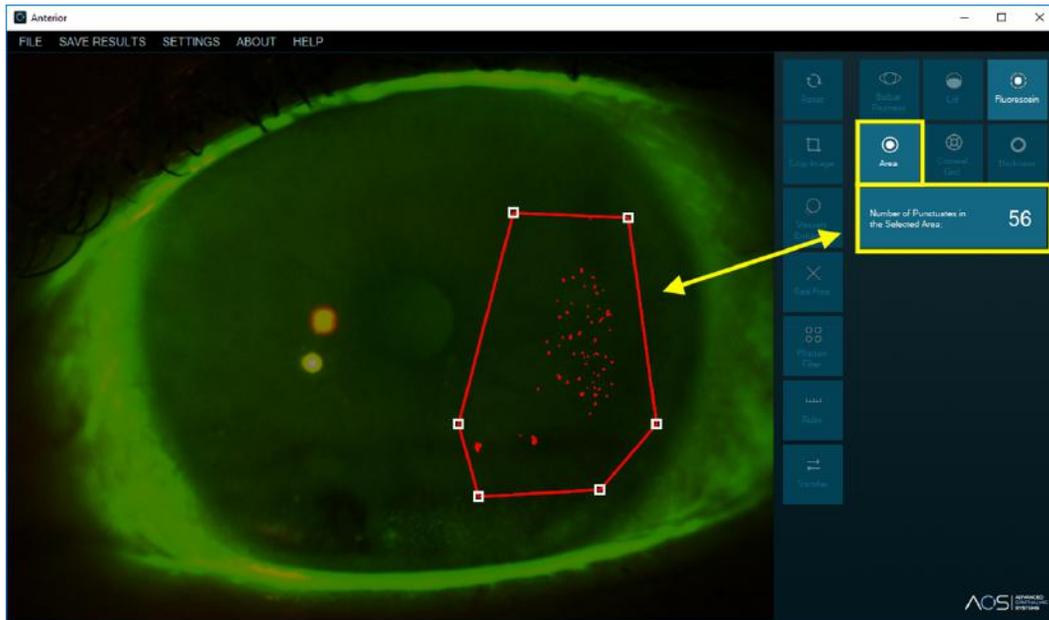
**Tip:** To draw a new area, click on the image away from the existing area and you will be prompted to draw a new area.

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## 6.8. Fluorescein tool

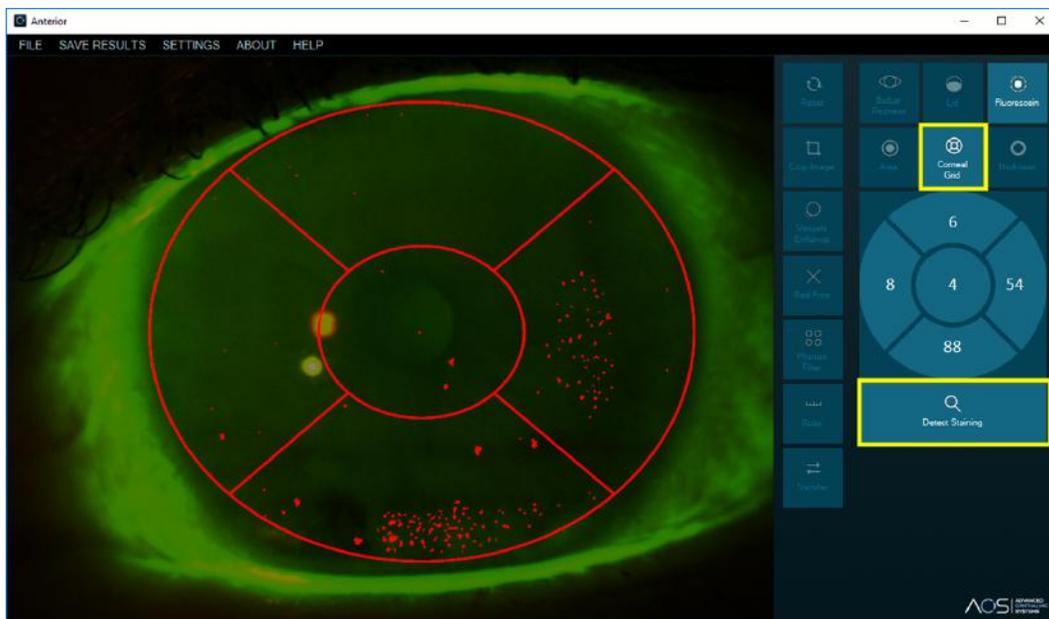
### 6.8.1. Punctuate count within a user specified area

Use the Area drawing tool to draw an area (see **Section 4.3**). The image highlights the **punctuates** in red. Results are displayed in the Control Panel as shown below.



### 6.8.2. Using the Corneal grid

To position the grid over the image, drag the hand cursor whilst positioned in the central sector of the grid. To resize and reshape, 'grab' the edge of the grid to resize and reshape.



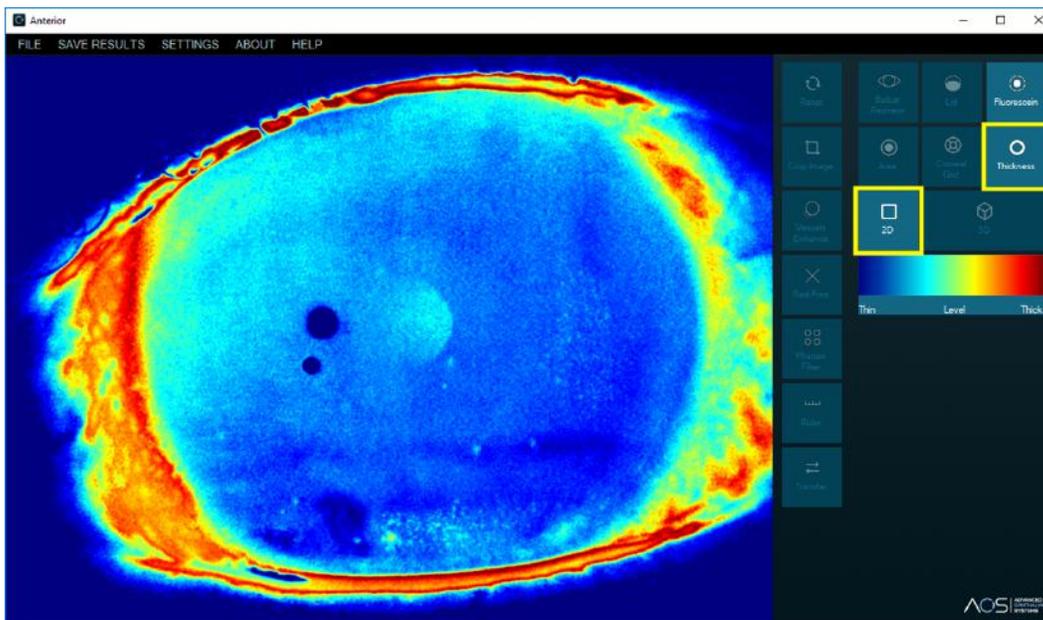
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## 6.8.3. Fluorescein Thickness

AOS Anterior can help visualise the depth of fluorescein over the eye by creating a heat map. Cold colours (blue) refer to thin levels of Fluorescein; while, red indicates thicker levels of fluorescein.

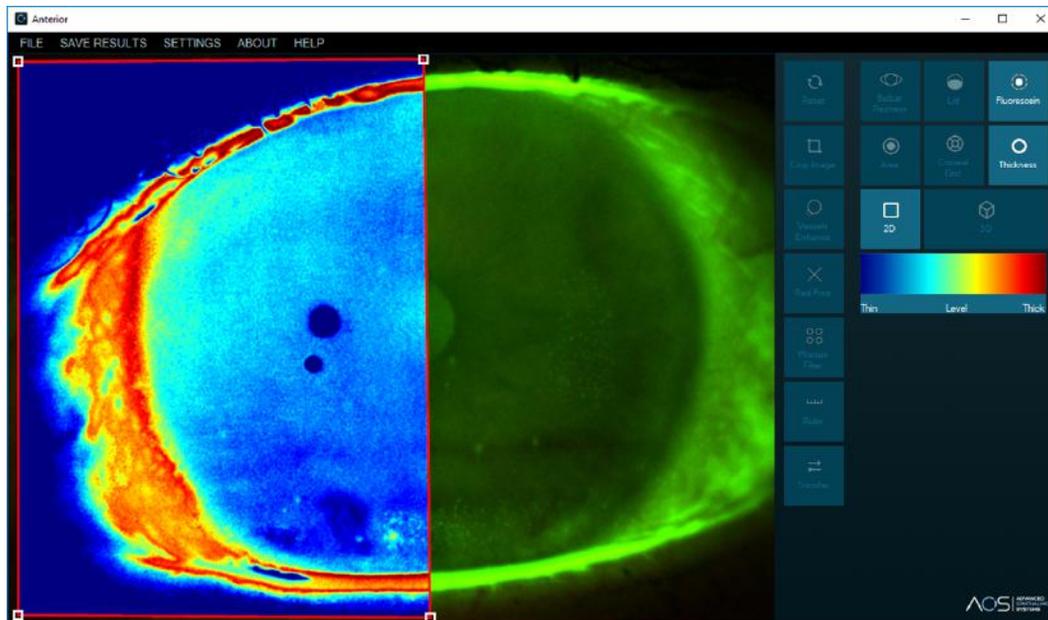
## 6.8.4. 2D Fluorescein thickness Level

To associate the heat map colours to the thickness of fluorescein, click on the “2D” button:



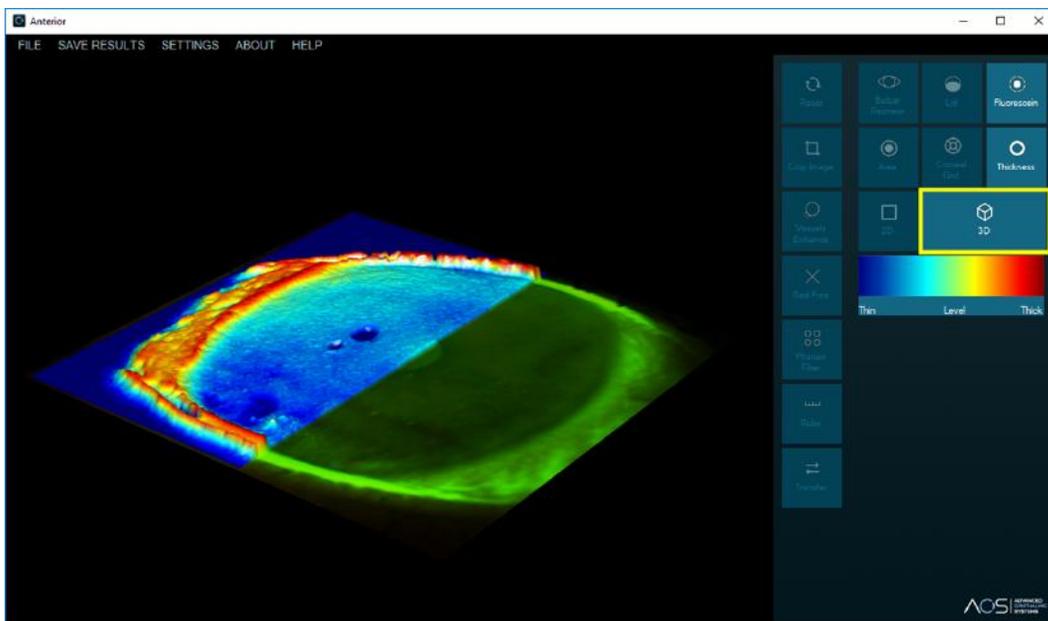
Alternatively, you can draw an area of interest and generate the heat map over the selected area only; draw the area over the heatmap, when the area is closed, the heatmap is applied only to the area drawn.

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## 6.8.5. 3D Fluorescein thickness Level

By clicking on the “3D” button, it is also possible to recreate a 3D view of the fluorescein thickness and the heat map, the red, higher ‘mountains’ representing the higher levels of fluorescein.



Similarly, you can draw an area of interest and generate the 3D model on the selected area only.  
**NOTE:** The area cannot be drawn in 3D mode, it must be drawn using the area tool on the original fluorescein image, or when in 2D mode.

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## 7. Other tools

### 7.1. Vessels Enhancement

Click on the Vessels Enhancement to obtain a better visualisation of the blood vessels. If there is an area drawn on the image, the area will clear whilst Vessel Enhancement is enabled. Click again to disable.

### 7.2. Red Free

Click on the “G” button to visualise a Red-Free image.

### 7.3. Wratten Filter

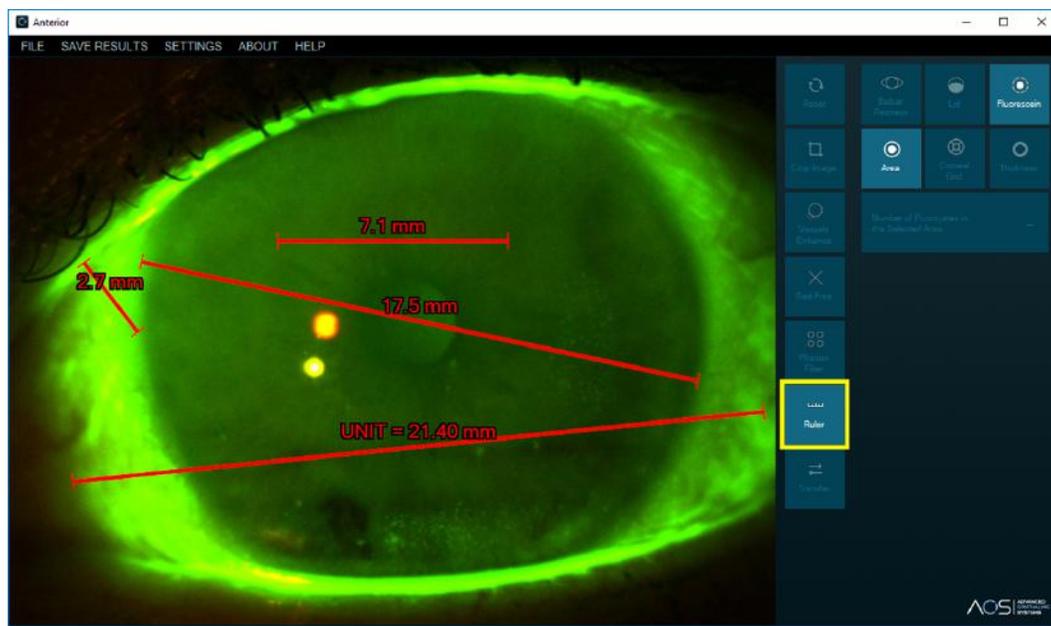
The AOS Wratten Filter allows an enhancement of the fluorescein over the anterior segment:

### 7.4. Ruler

The Ruler tool calculates distance and area and may is available in any mode. Select either **Area** or **Segment** and first, manually input a known distance, ie the diameter of a contact lens. This value is used as a baseline measurement. Measurements can be taken in cm, mm,  $\mu\text{m}$ , nm.

#### 7.4.1. Segment measurement

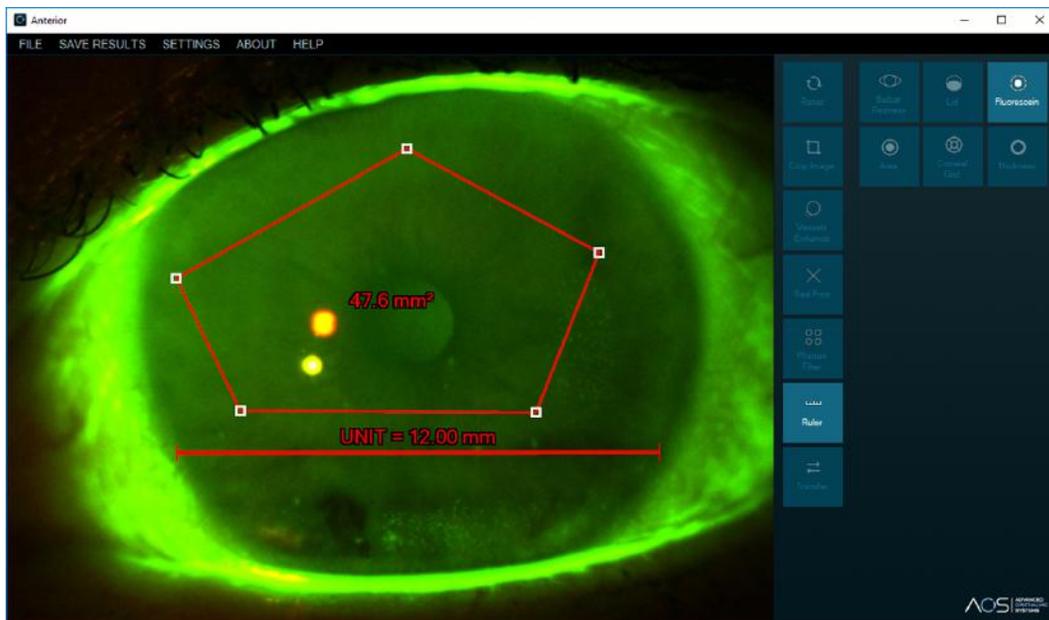
- Take an external measurement across the eye, for example a contact lens
- Click on ‘UNIT = insert unit dimensions’ and enter your external measurement, and dimension
- You will see the secondary ruler now has a value applied. Move the primary ruler to the area measured externally and adjust its length to suit
- You can now use the secondary ruler to measure other areas of the image
- To add further rulers (upto 15) right click your mouse key
- You may grab the ruler to manipulate its length and direction



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## 7.4.2. Area measurement

- Take an external measurement across the eye, for example a contact lens
- Click on 'UNIT = insert unit dimensions' and enter your external measurement, and dimension
- Draw the area you want to calculate (**Section 4.3**) and once the area is complete the measurement is displayed.



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## 8. Getting help and support

### 8.1. The AOS website

<https://www.aos-hub.com>. For all supporting documentation for AOS products, go to the contact page and use the feedback widget or mail us direct [enquiries@aos-hub.com](mailto:enquiries@aos-hub.com)

### 8.2. Requesting product support

Should you have a question regarding application support or specific product use, please contact our Support Centre via the online form on the AOS Contact web pages.

### 8.3. Finding support documentation online for other AOS products

At [www.aos-hub.com](http://www.aos-hub.com) all product documentation is logically stored and available for download in pdf format.

### 8.4. Update notifications

Notifications of product updates and new features will be advertised on the website. All documentation will be updated accordingly. If you have a subscription product updates and features will download automatically each time the application is started.

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## 9. FAQ's

### 9.1. Working with Windows 7 & 10

The AOS Anterior application is approved for use on Windows 7 and 10.

### 9.2. Which smartphones does the AOS Companion app work with

iOS and Android devices.

### 9.3. Printing your result files

Result files are saved in PDF format and can be opened and printed from any PDF viewer.

### 9.4. I can't open my results file

This is likely that there is no PDF viewer application installed on the computer. A viewer is available for download from [www.adobe.com](http://www.adobe.com).

### 9.5. Database integration

We are working on a database function. If you use a database or EMR currently you should be able to import report PDF or image files.

### 9.6. What image file types can AOS Anterior analyse

AOS Anterior can load and analyse the many image file types including ;

- Windows bitmaps - BMP, DIB
- JPEG files - JPEG, JPG, JPE
- Portable Network Graphics – PNG
- Portable image format - PBM, PGM, PPM
- TIFF files - TIFF, TIF

### 9.7. What is the minimum recommended image quality

AOS Anterior has in built tolerances and will alert you if the loaded image is of insufficient quality. A warning message is also displayed if the image is either under or overexposed.

### 9.8. Software update notifications

The application automatically checks for available updates if an internet connection is available when opened.

### 9.9. Contact AOS

Information on all AOS applications is available online. Please contact us via the online contact forms. For any further information or enquiries regarding AOS and our products, please contact;

[enquiries@aos-hub.com](mailto:enquiries@aos-hub.com)