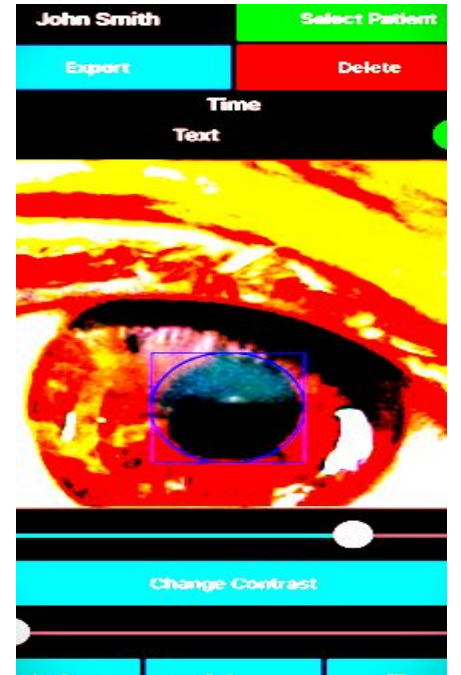


iOS and Android

Opto-Screen 2
*Online **QuickStart** Guide*

V

Visual intelligence
AI for Medicine and Safety TM

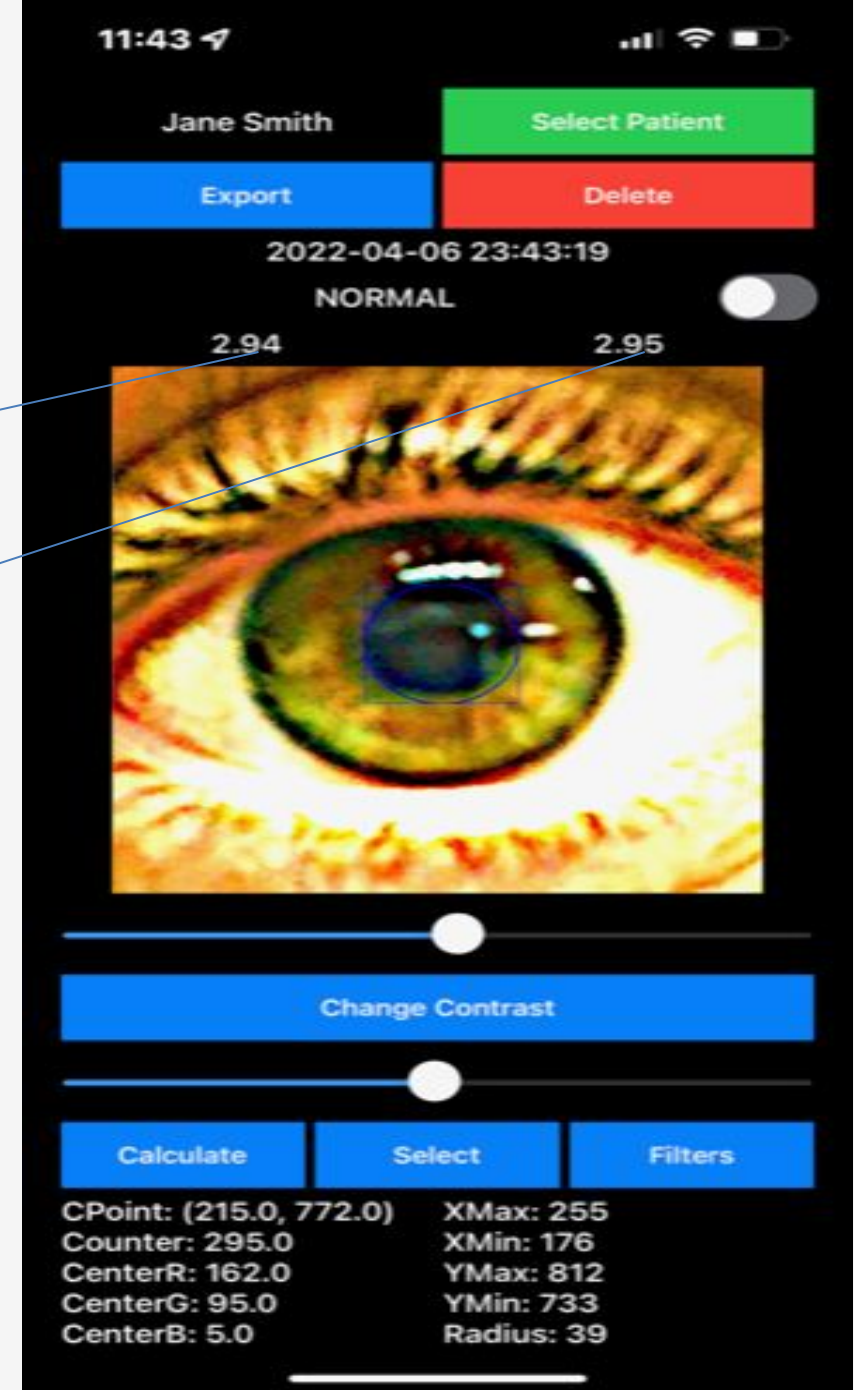


Purpose:

*It's Easy to
Tell If a Pupil
is Round with
the Opto-
Screen2*

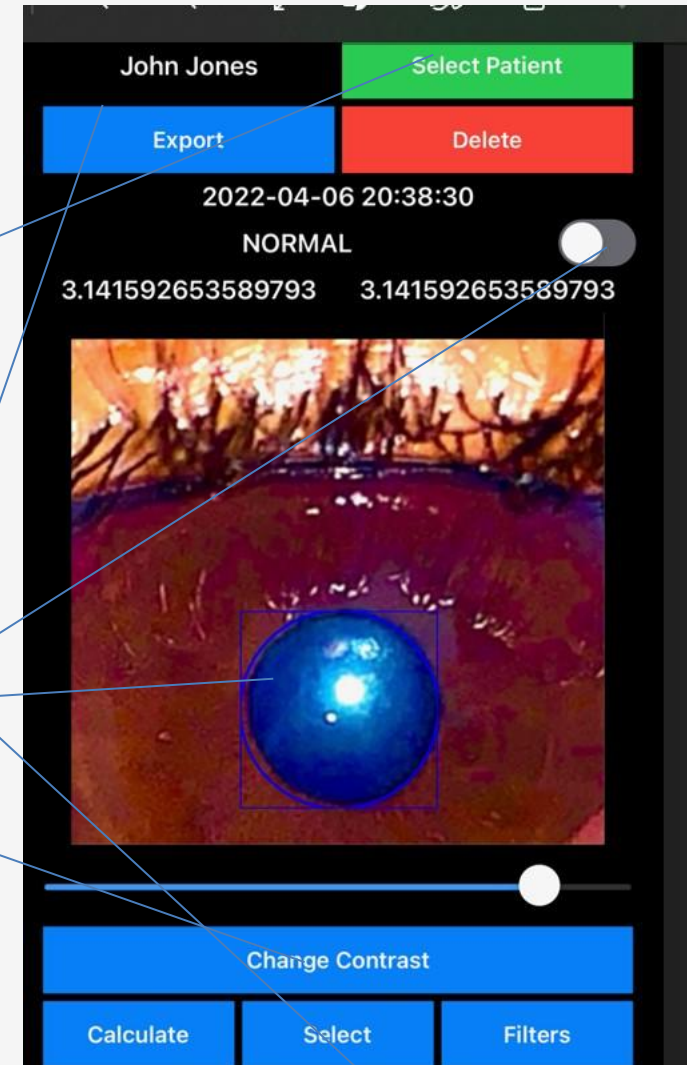


Analysis:
Calculation of Pi with
Pixel Color (left side)
Calculation of Pi with
Pixel Count (right side)



App Operation

- Step 1: **Select Patient** or create patient(Top Right)
- Step 2: **Select Photo** or Camera (Bottom Center)
- Step 3: Use Diffuse Light Such as LED (see examples last slide)
- Step 4: Hold Soft Light to The Side of Eye
- Step 5: Take Photo with App
- Step 6: Pinch Pupil Photo in & out with fingers & Examine
- Step 7: Crop and Save photo
- Step 8: Optional Filter & Examine -Use Contrast Tab for Slider
- Step 9: Use Slider Place Circle and Square over Pupil
- Step 10. Press Calculate
- Step 11. Indicate Normal or Abnormal
- Step 12. Press Export send to Google Drive or AirDrop



Opto-Screen 2

Photo

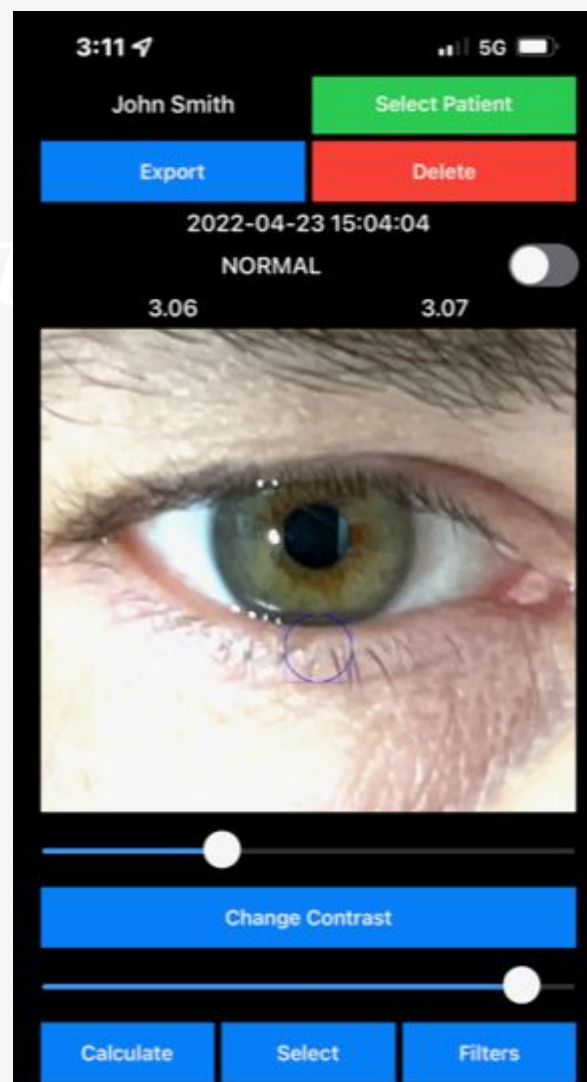
Instructions

- 1 Take the Photo Indoors away from Windows and Outside Light**
- 2. Hold the Camera Approximately 6-8 inches from the Subject's Eye**
- 3. Have the Subject Hold the LED Light to The Side of the Eye -The Iris and Pupil Will Come in Focus**
- 4. Hold Steady and Take the shot**
- 5. Do Not Pinch the Iris Beyond 3.5 CM**
- 6. Place the Circle and Square Around the Pupil Using the Slider and Float Over the Pupil**
- 7. Press Calculate**
- 8. Select Normal or Abnormal Pupil**

*** If the App Closes You May Have Held the Camera Too Close or Pinched Out Beyond 3.5 CM**

Pinching Instructions:

Do not pinch the *iris* more than 3.5 centimeters (a little larger than the size of a quarter). This will allow for the best App performance.



*RGB Readings:
Red, Green Black
Reading 0-255*

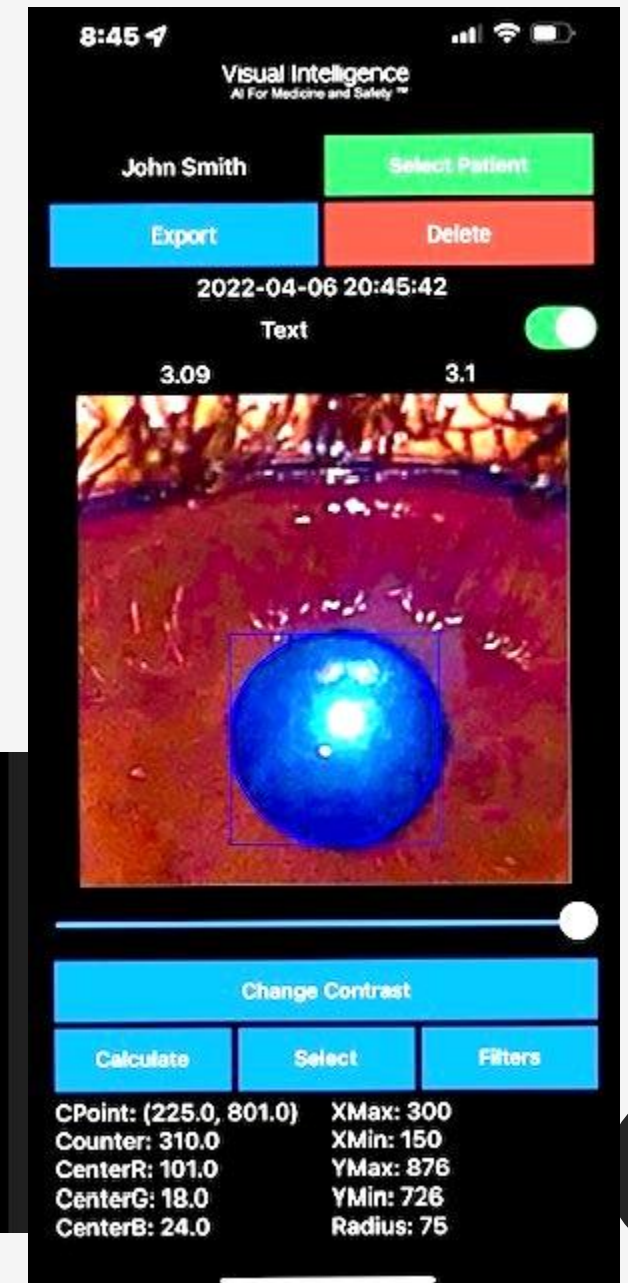
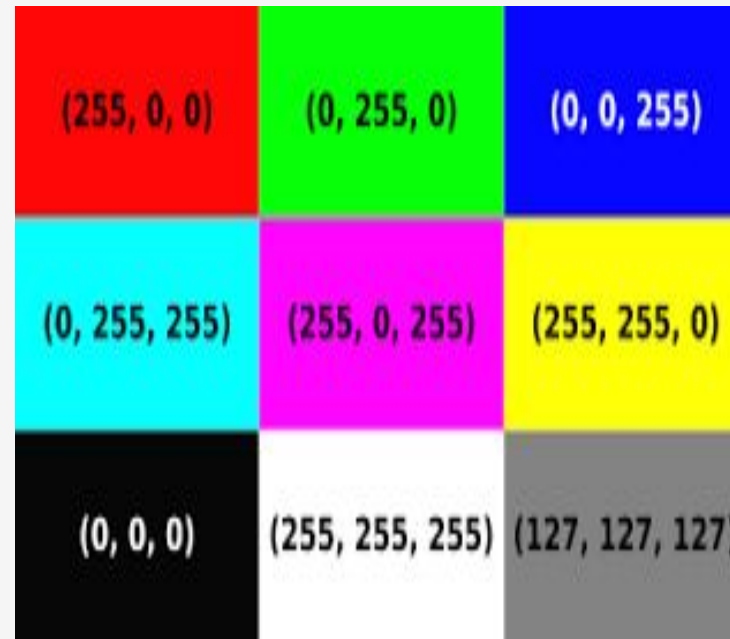
C-Point- Center Point

Center of Square Pane

***Counter-Number-of
Pixels Found in Circle***

***X-Y-Min-Max-within
the Square created by
User***

***Radius- from Center
of Pupil***



Air-Drop or Send to Google Drive

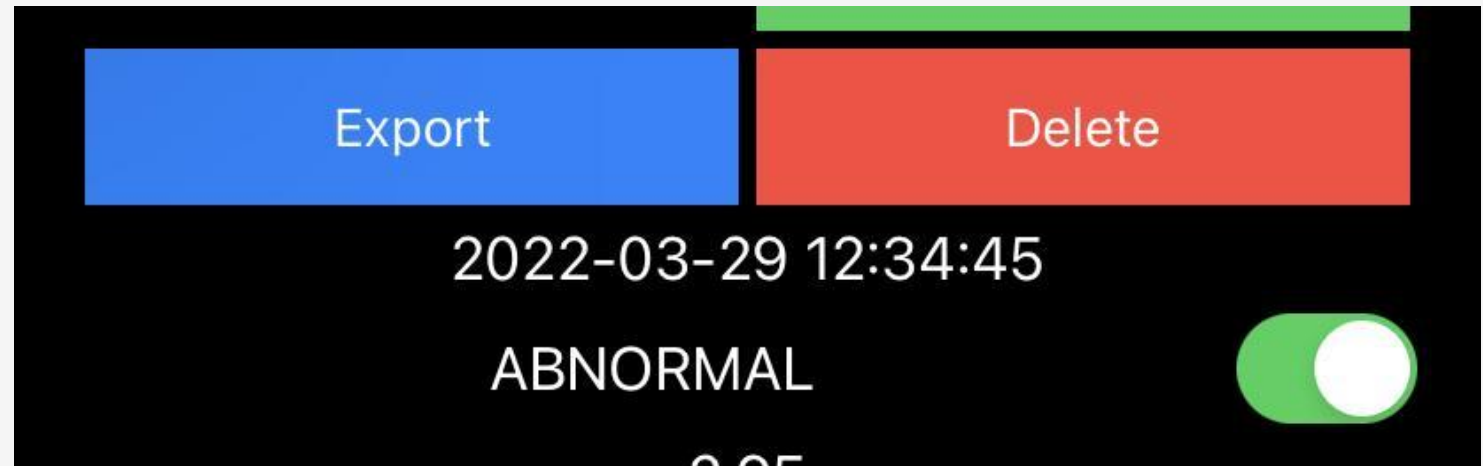
Use the Opto-Screen Export Feature to view image on PC and save data.

Users can Set-Up a Google Drive by establishing a Separate Gmail Account for their Opto-Screen Readings- other storage options are available-such as AirDrop

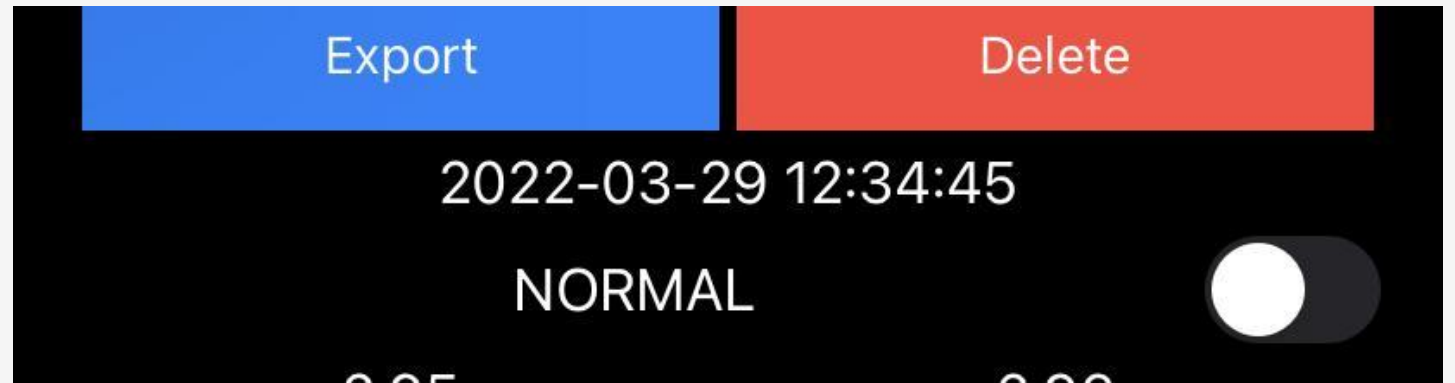
Readings and Photos should be available immediately for PC Analysis with a good Wi-Fi Connection



Using your own judgement tap the button once to indicate an Abnormal Pupil, then save the photo for future reference

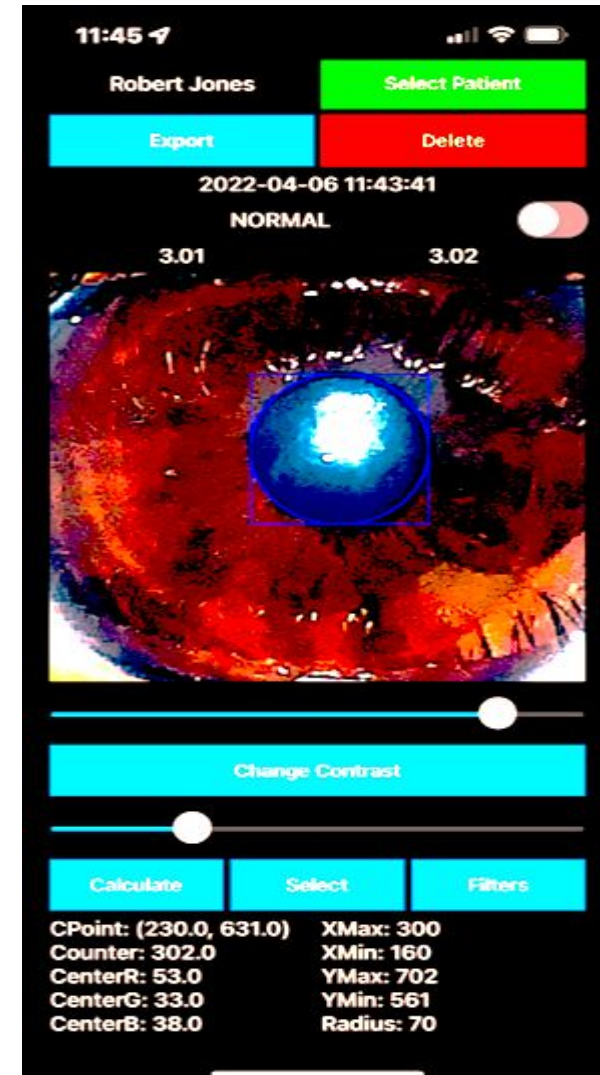
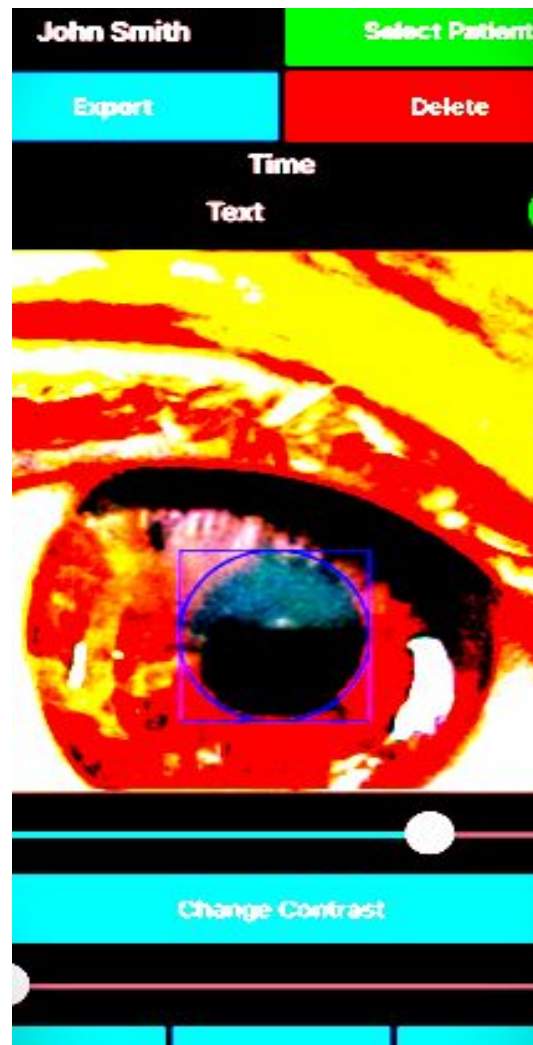
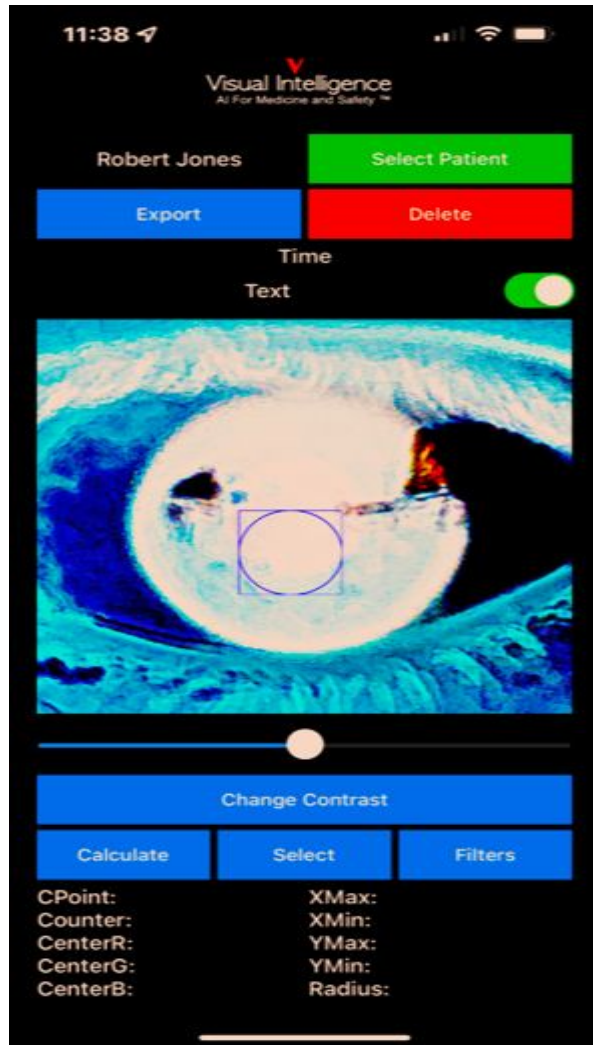


*Tap the
button a
second time
to indicate
visually
normal
pupil*

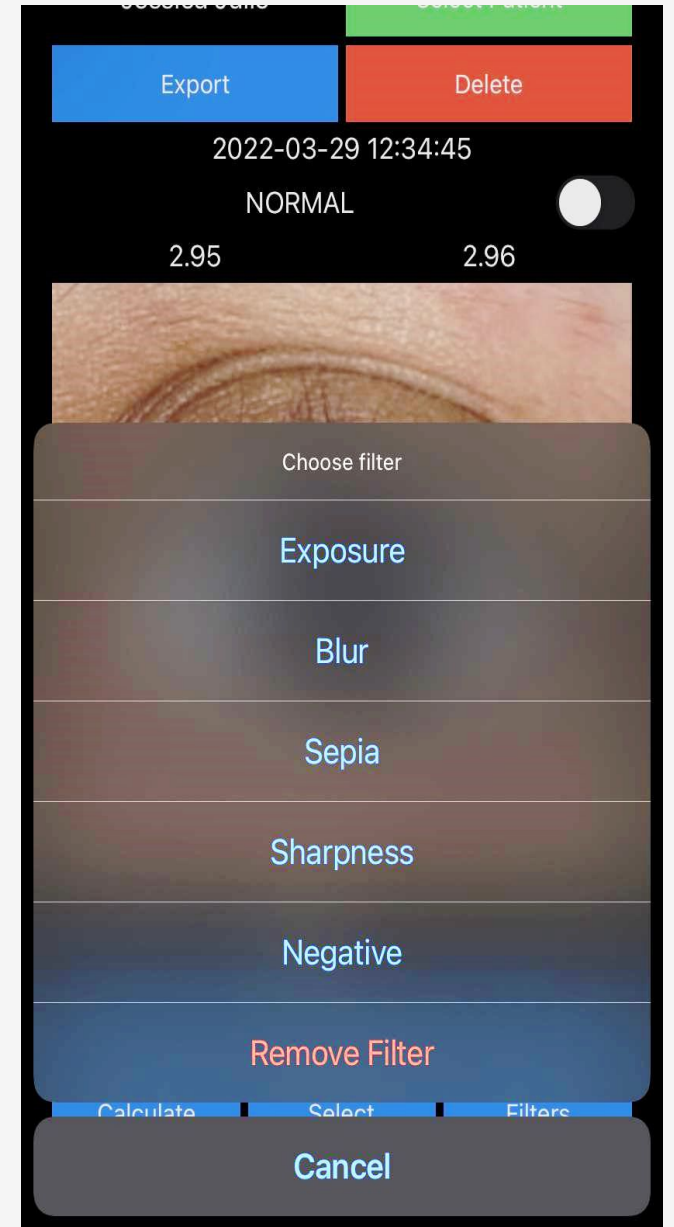
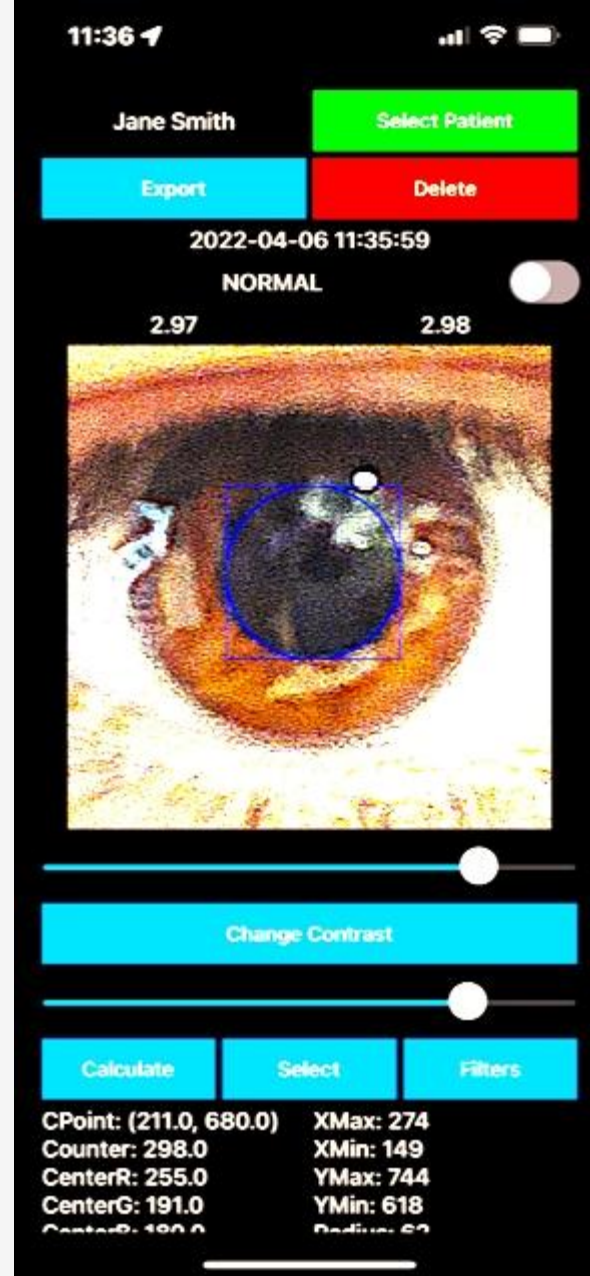


Results of Filtering: Exposure, Sepia, Negative-Or Highlight on a PC after Export

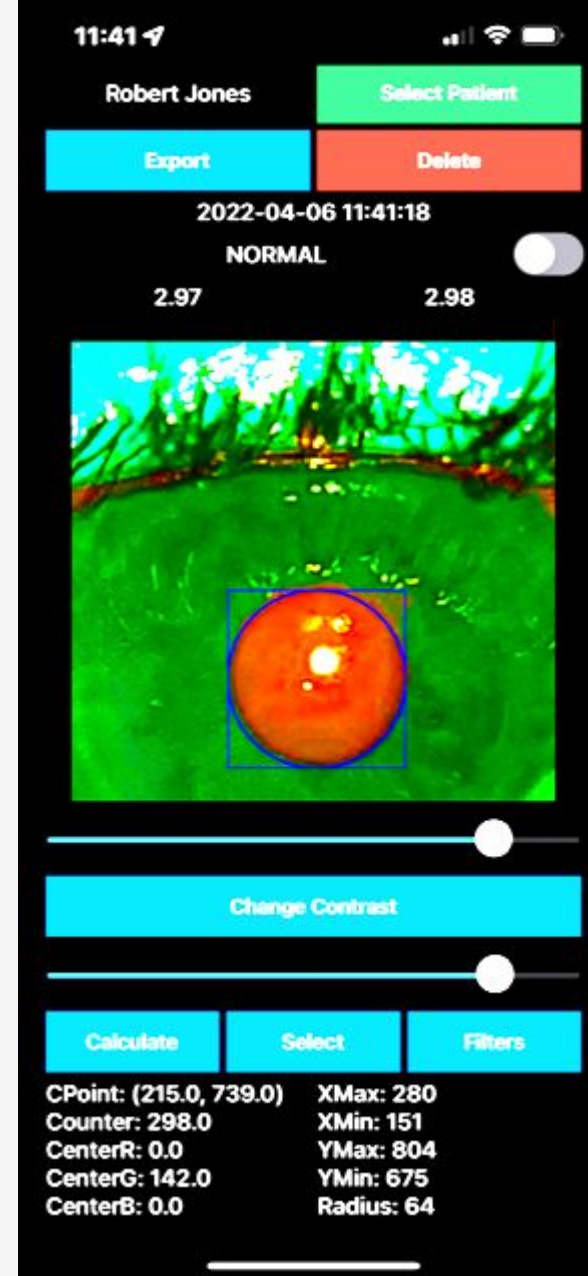
Please note, excessive filtering may affect the App performance -In such cases use the PC
In most cases filtering will not be required when using the external light.



Select “Change Filter” for enhancing the pupil and the iris there are several choices available. Use “reset” to go back to the original image of the pupil without filters Users can go Back to upload or take another photo.



*Picture of
Photo after
using negative
filtering
resulting in
highlighting the
pupil* **Steps:
negative,
sharpness,
sepia**



Diffuse Light Options

**Patient
or a Nurse
Can Hold
While App in Use-
Best on Side of Eye
Use for the Best
App Images-
Creates a Mild Light
Can be mounted on
Phone**

