

# OptiTab

# **USER MANUAL**

# OptiTab INTERFACE

The OptiTab is your unique dispensing tool that helps in all aspects of the eyewear dispensing process.

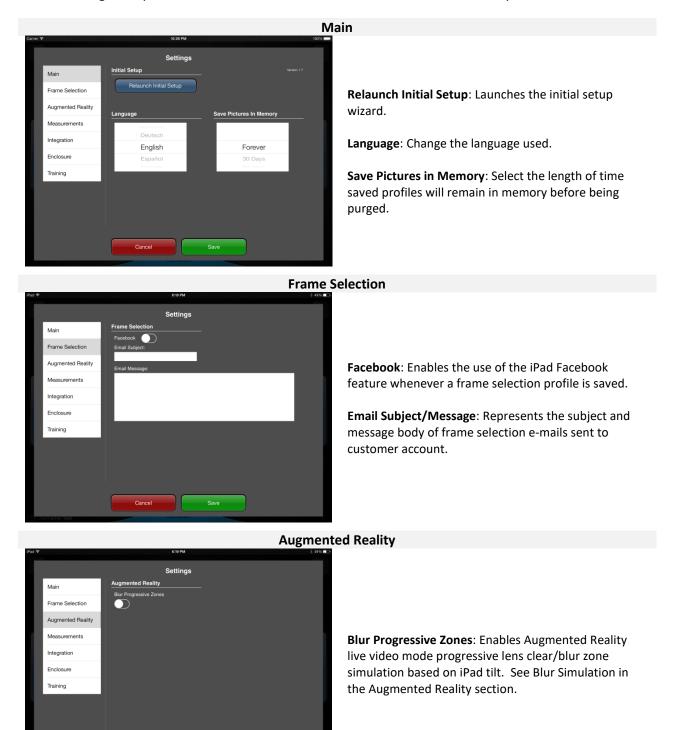
When you launch the app, you are presented with icons of all the modules that are available on your OptiTab software. You can start a session in a desired module by simply touching the respective icon. Once in a session, you can freely navigate to any other module without returning to the home screen by touching the module buttons on the top-left corner of the screen.



On the top left hand side of the screen, the *Settings* button allows you to change the software's settings. On the top right hand side, the *Help* button activates a guide on the use of the software. At the bottom of the screen, the *Load Session* button displays a list of previously saved profiles.

## OptiTab SETTINGS

The Settings Panel allows the user to customize numerous OptiTab features to fit their dispensing style. The following table provides an overview of the features that are customizable by the user.



Save

Cancel

### Measurements



**Comfort Heights**: [0 – 3mm, Default: 0mm] Automatic drop in height from pupil centre.

Warnings Configuration: (Measurement Warning Panel) Clearance: [0 – 10mm, Default: 8mm]: Pupils to bottom of the lens clearance measurement warning limit Height Difference: [0 – 4mm, Default: 1.5mm] Height Left to Height Right difference warning limit.

**PD Difference**: [0 – 4mm, Default: 2mm] PD Left to PD Right difference warning limit.

**High Panto**: [15 – 30°, Default: 25°] High pantoscopic tilt warning limit.

**EY-Stick Version**: Select the EY-Stick version used with OptiTab. See EY-Stick Version Notice below.

**Results**: (Measurement Results Panel) **ERCd**: Displays ERCd instead of RVD by default. The result can be toggled between ERCd and RVD by tapping on it.

**Print Picture**: Print the measurement picture on the Measurement Report.

Print Barcode: Print barcode with encoded measurement information on the Measurement Report Frame Measurement: Turn on frame measurements by default.

Measured Near PD: Enable measuring of NearPD.

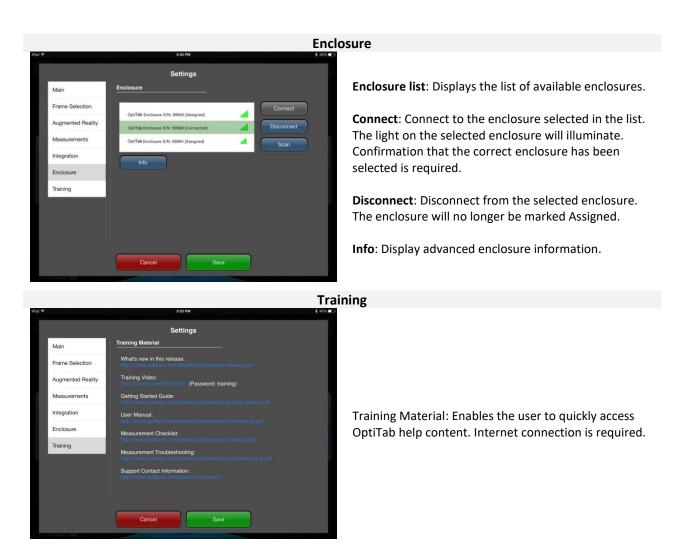
**Progressive Lens List**: Select manufacturer progressive lens lists available to the associate for Lens Package overlay.



### Integration

**Lens Ordering**: Enter third party lens ordering integration information.

**Export**: Enter third party Point-of-sale measurement results export integration information.



### EY-Stick Version Notice

OptiTab version 1.3 and higher is installed with EY-Stick v3 selected as the default device. It is therefore critical that EY-Stickv2 users set the correct EY-Stick version in cases where the OptiTab app is fully removed and reinstalled, or freshly installed on a new iPad.



WARNING: Using the incorrect EY-Stick version will result in erroneous measurements.



From ONE picture, OptiTab can obtain the following measurements:

Monocular Pupillary Distance (PD) Monocular Pupillary Distance (PD) Multifocal Seg Heights Pantiscopic Tilt (panto) Vertex Distance (RVD) Wrap (face form tilt) Near PD A, B, ED and DBL values

### **AS-WORN MEASUREMENTS**

The OptiTab software will produce "as-worn" measurements. These "as-worn" measurements take monocular PDs more accurately by taking into account how the frame sits on the customer's face. This is in contrast with the pupilometer, which captures PDs anatomically and does not take into account frame fit and nose-pad adjustments.

OptiTab's EY-Stick also measures "as-worn" seg. height measurements through its unique way of capturing the patient's natural posture. By means of a swing assembly on the EY-Stick, the optician can very quickly capture the patient's natural head posture without being at the same eye level as the patient. This enables an optician of any height to properly and accurately measure patients of varying heights. In fact, the patient can even be sitting while the optician is standing when taking the picture.

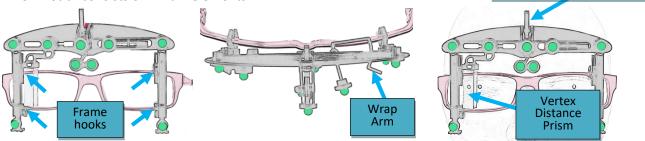


### EY-STICK

The EY-stick is the device used to capture all the advanced optical eyewear measurements using one single frontal image. The EY-Stick captures personalized frame fit measurements, taking into account how the frame sits on a person's face.

It is critical to properly fit the frame in the way it would be dispensed prior to performing the measurement with the EY-Stick.

The EY-Stick consists of 4 main elements:



Posture Swing Assembly

### Placing EY-Stick on Frame

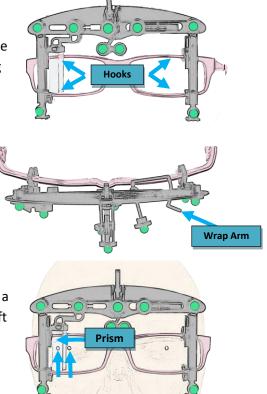
The frame hooks are located behind each leg. Extend the legs by holding the bottom edge of each leg. Insert the frame between the hooks and then close the legs to secure the frame in place, making sure that the EY-Stick is centered on the frame.

### Adjusting the Wrap Arm

The wrap arm consists of a pivoting ledge located at the back of the EY-Stick. Looking from above, rotate the ledge back and forth until the ledge is parallel with the curvature of the eyewear. This will measure the frame wrap angle.

### Prism Adjustment

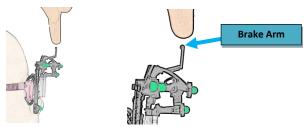
The vertex-distance prism can be moved left and right by applying a light pressure on the thumb rest. Simply move the prism to the left of the iris until the pupil is visible in the center of the prism. Also, make sure that the prism is not obstructing the frontal view of the patient's pupil.



### **Capturing Natural Posture**

The patented posture swing assembly allows the height measurements to take into account the patient's natural posture.

- 1. Unlock the swing assembly by lifting the break arm.
- 2. Make sure that the patient assumes their natural posture. Note that the patient should not be crossing their arms during this step. The patient may be sitting or standing.
- 3. Ask the patient to look at a far-distant object using their primary line of sight. Stand to the side of the patient and apply a slight pressure on the break arm to lock it. Now that the posture swing assembly is locked, the patient does not need to be at the same eye level as the camera lens on your Tablet.



The patented EY-Stick ensures precise measurements by recreating the customer's natural posture when the two green nasal sensors are in alignment. Note that locking the swing assembly in different postures will result in getting different heights. Your professional judgment should be used in ensuring that the patient is in their natural posture when locking the swing assembly.

### **MEASUREMENT MODULE**

The measurement module allows you to quickly capture all of the advanced optical eyewear measurements using a single frontal image.

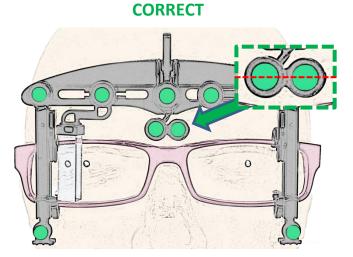
### **Picture Capturing**

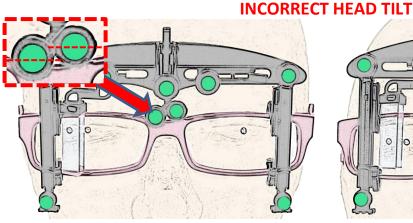
When entering the measurement module, select the frame type, the lens type and then touch the *Continue* button.

A live video feed is displayed with *Focus* and *Take Picture* buttons on each side of the video. Touch the *Focus* button to ensure that the video feed is in focus. Touching the *Focus* button triggers the flash, allowing you to see if the corneal reflection is visible in the middle of the prism.

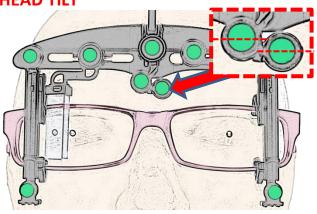
### Correct Head Tilt

Tilt the iPad until the two green nasal sensors on the swing assembly of the EY-Stick are in horizontal alignment. The horizontal alignment ensures that the patient's primary line of sight is being used when capturing the image.





Resolution: Ask patient to raise their chin

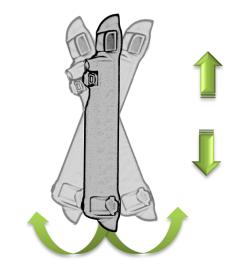


Resolution: Ask patient to lower their chin

### Alternate Positioning Method: iPad Tilting

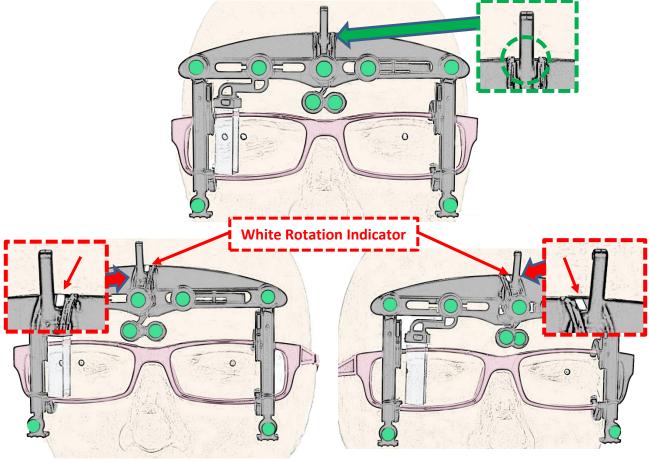
As an alternative to asking the patient to raise or lower their chin, the OptiTab can be tilted by the operator to place the green nasal sensors in alignment.

Note: OptiTab may need to be raised or lowered to keep the customer in view.



### **Correct Head Rotation**

Next, make sure that no head rotation is being introduced by ensuring that the white rotation indicator is not visible. This requires the operator to rotate the tablet left and right until the white rotation indicator is not in view.



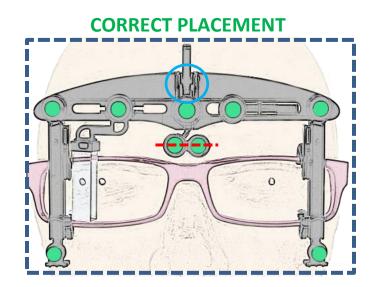
Resolution: Turn the iPad left

Resolution: Turn the iPad right

### Patient Placement

You must also make sure that the EY-Stick and the customer's eyewear is fully visible within the blue rectangle. Once they are in alignment, ask the patient to look at the iPad's camera lens and touch the *Take Picture* button while making sure to hold the iPad still. Alternatively, keep the "Take Picture" button pressed, position and stabilize the tablet, then release the "Take Picture" button when ready.

The image below represents what a correct picture placement looks like prior to taking the picture.



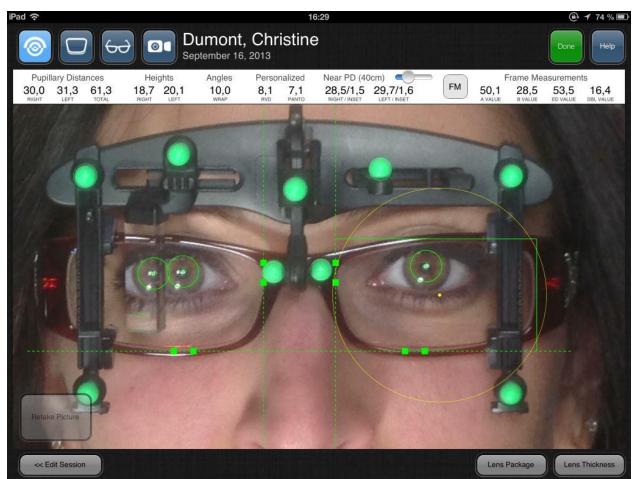
# INCORRECT: SENSORS NOT IN VIEWINCORRECT: PATIENT DO FARImage: Sense of the sens

- The entire eyewear and EY-Stick visible inside rectangle.
- The two green nasal sensors are aligned.
- There is no head rotation (the white rotation indicator is fully hidden behind the brake arm)

### **Image Verification**

Once the picture is taken, the measurement picture is displayed. Please take a moment to analyze the image to verify that the pre-fit was properly performed.

On the measurement image, the software draws the following measurement markers: a horizontal line, two vertical lines, two pupil markers, and a marker on the reflection of the pupil inside of the prism.



The OptiTab software attempts to automatically place all markers in their correct position and will display in Red markers not automatically detected. Please perform the following verifications.

- Verify that the horizontal line is placed on the inner edge of the frame where the frame and the lens come together.
- Verify that the vertical lines are placed on each side of the bridge, ensuring that the same reference point is used on both sides. Do not use the nose pads as a reference point, as they change with the fitting.
- Verify the markers on the pupils. Note that on the side where the prism is located, two
  reflections are formed on the pupil. Verify that the marker is on the nasal most reflection. This
  also applies to the pupil reflection inside of the prism. On the left eye, verify that the marker is
  positioned on the corneal reflection.

### **Explanations of Errors and Warnings**

When capturing a measurement image, possible Errors and Warnings may appear. Below, is a complete listing of each with their respective description.

# Picture Taking Error Analysis

OptiTab may reject the image based on one of the following reasons:

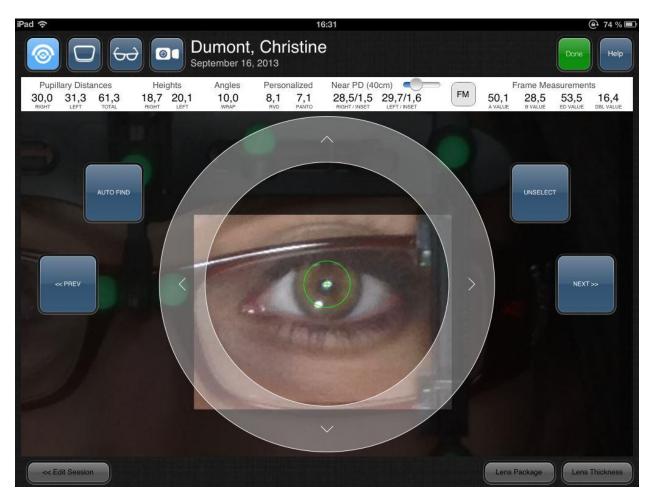
Head Rotation Error	The customer's face was rotated left or right beyond acceptable limits(white rotation indicator visible)	
Head Tilt Error	The customer's face was tilted up or down beyond acceptable limits(green nasal circles not aligned horizontally)	
Detection Error	The EY-Stick was not within the blue rectangle when the picture was taken.	
Red X on Wrap Sensor	Wrap arm indicates negative wrap angle. (Wrap arm not set properly)	
Red X on Prism Sensor	Picture taken with prism in the parked position.	
NOTE: The picture must be re-taken to continue the measurement process. (If Wrap and RVD measurement necessary)		

Once the picture is taken correctly, OptiTab may generate the following warnings: (visible in the top left corner of the image)

Warning	Description	Possible Action	
Verify Fitting (PD)	PDL and PDR differ beyond the set warning limit. (Default PD difference: 2.0mm )	Verify pre-fit.	
Verify Fitting (Height)	HL and HR differ beyond the set warning limit. (Default Height difference: 1.5mm)	<ul> <li>Verify EY-Stick is properly seated on the frame.</li> <li>Verify pre-fit.</li> </ul>	
Verify Clearance	The clearance between the pupils and the bottom of the frame is below the set warning limit. (Default Clearance: 8mm)	<ul><li>Verify pre-fit.</li><li>Verify natural posture.</li></ul>	
Verify Panto	The customer pantoscopic tilt is beyond the set warning limit. (Default High Panto: 25°)	<ul> <li>Verify EY-Stick is properly seated on the frame.</li> <li>Verify natural posture.</li> </ul>	
Minimum Height Check	Lens package does not satisfy the minimum fitting height.	Select a different lens package	
RVD out of Range	Pupil is not visible within the prism or the cursor is not placed on the corneal reflection	<ul> <li>Retake picture or reposition the pipil reflection</li> </ul>	
Warnings do not indicate error but simply suggest areas that should be checked.			
NOTE: OptiTab warning limit values can be changed or disabled in Settings $ ightarrow$ Measurements $ ightarrow$ Warning Configuration.			

### Marker Placement

If you spot a displaced marker, adjust its position by first selecting the marker. Selecting a marker is done by touching the two square anchors in the case of the lines, or on the crosshairs in the case of the pupils.



Once a marker is selected, there are three ways to adjust its position.

- Drag outside of the directional ring to slide the marker in place
- Tap anywhere inside the ring to move the maker to a specific spot
- Use the arrows to make fine adjustments.

Quickly navigate through the different markers using the *Next* and *Previous* buttons on each side of the picture. When all of the markers have been set, return to the full view mode by touching the *Unselect* button. Now you have all of the measurements needed to order your lenses.

### Frame Measurements

Frame measurements can also be captured by touching on the *FM* button. This displays a green corner shape and a yellow circle.

Perform the following steps to obtain Frame Measurements:

- Place the green corner such that the horizontal segment is placed at the top of the lens and the vertical segment is placed on the temporal side of the lens. This completes the boxing of the lens.
- Change the size of the yellow circle by dragging the Effective Diameter slider at the bottom right hand side of the screen so that the lens fits inside the smallest sized circle.

The A, B, ED and DBL frame measurements are displayed on the right side of the results bar.

### Lens Thickness

Now that the Frame Measurements are complete, the Lens Thickness button becomes available in full view mode. In the *Lens Thickness* demo, drag the Rx slider to select the patients' approximate prescription.



This displays the difference in thickness between a 1.5, 1.6, 1.67 and 1.74 lens using the patient's Pupillary Distance measurements and their frame measurements. Exit by touching the 'X' button at the top right hand side of the *Lens Thickness* window.

### Lens Packages

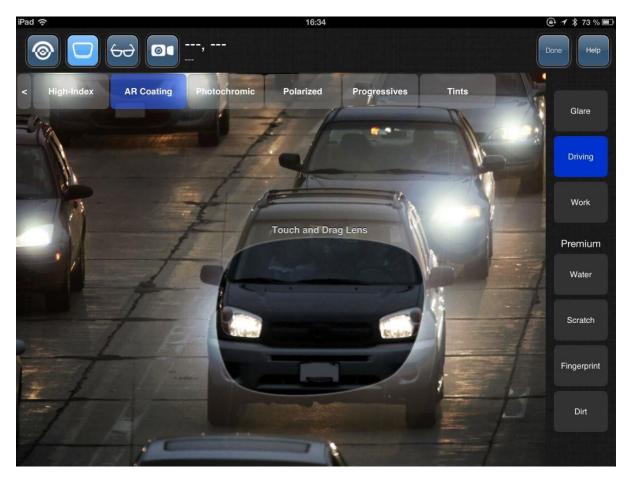
You can also touch the Lens Package button to verify whether the chosen Lens Package respects the minimum fitting height and whether the lens cuts-out correctly.





The Lens Demos module allows you to demonstrate the advantages of premium lens options in a quick and interactive way. The demos can be navigated by touching the lens options at the top and suboptions on the right hand side.

Touching the MENU button expands and collapses the list of lens options.



The following demos are available:

- High-Index
- AR Coating
- Photochromic Lenses
- Polarized Lenses
- Progressive Lens Designs
- Color Tints

Touching and dragging the lens in each demo will interactively showcase lens benefits in various settings.

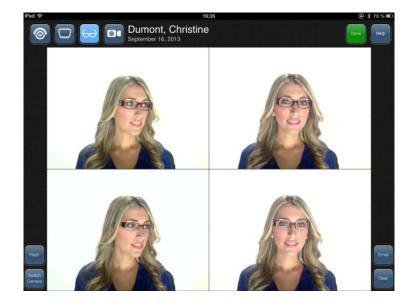
### ↔ FRAME SELECTION

The Frame selection module enables customers to see how they look like in different eyewear. The side-by-side image comparison exposes the customer to frames of different styles, resulting in an increase in multiple-frame sales.



To use this module, simply touch one of the four quadrants to activate live video. Once the patient is in view, touch on the live video feed once ready to capture the image. This process may be repeated in the other quadrants.

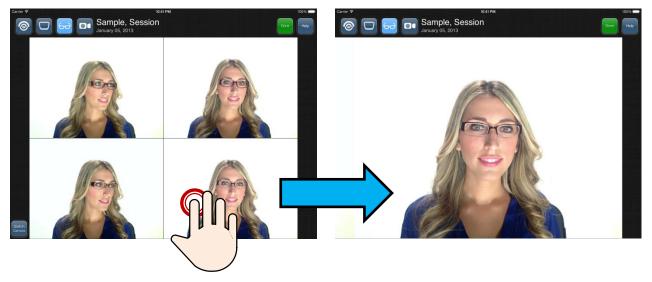
You can Email customers their pictures by touching the Email button located at the bottom right hand side of the screen. An e-mail account must first be configured on the iPad in order to use this function.



You can clear the pictures by touching the clear button.

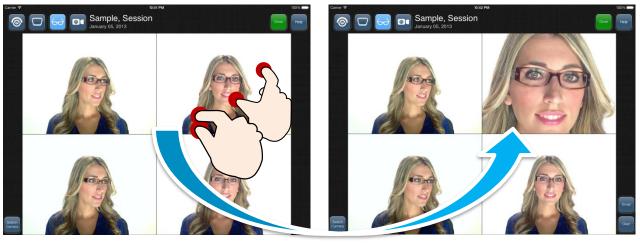
### Full Screen

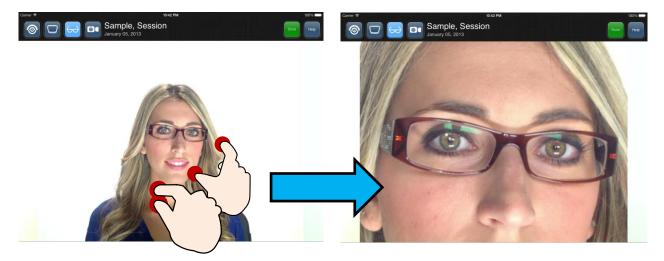
Full-screen is performed with a double-tap on any of the four quadrants. When in full view, swipe the images to scroll through them. Split screen view is returned to by double tapping the full screen image.



### Pan & Zoom

Pinch gestures can be used to zoom in an image in one of the 4 quadrants or a full screen image.





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When launching the Augmented Reality module you are presented with two live video windows. Below each video window, several lens options can be selected: the lens type, the coating, the tints and colors. This live simulation showcases the benefits of various lens options using your office setting. Point the iPad around different parts of your office to highlight various lens benefits.

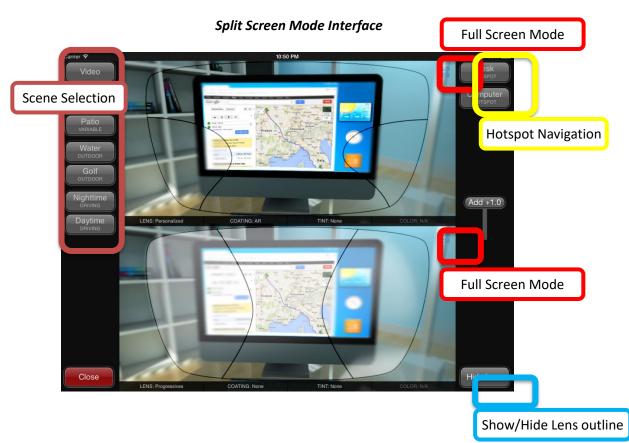
### <u>Scenes</u>

You can select pre-loaded scenes which simulate lens options in a 3D environment using the buttons on the left side of the screen.

You can move around the scene by touching and dragging on the picture. Performing a pinch gesture will zoom in and out of the scene.

### Hotspots

In each scene, a list of Hotspots are available on the right side of the screen that allow you to instantly pan the lens to specific location. This allows you to quickly illustrate lens benefits in meaningful areas of the scene.



### Full-Screen

Tapping the Full Screen icon will enlarge one of the lens views to full-screen. The user can quickly be shown the differences between the top and bottom lenses by tapping the Top Lens/Bottom Lens buttons. Split screen mode is returned to by tapping the Split Screen button.



Full Screen Mode Interface

To exit the Augmented Reality module tap the Close button located at the bottom-left corner of the screen.

### **Blur Simulation**

This feature must be enabled in Settings  $\rightarrow$  Augmented Reality. It simulates the progressive lens blur/clear zones based on iPad tilt. This simulation is only available in Augmented Reality live video mode.

