

## SimuEYE YAG, SLT & LPI

### IDENTIFYING THE MODELS:

#### SimuEYE YAG

- Dilated green iris, clear anterior capsule in front of IOL and white posterior capsule membrane, Black Suction Cup

#### SimuEYE SLT

- Green iris, pigmented area in periphery for TM, White Suction Cup

#### SimuEYE LPI

- Blue Iris with 4 treatment areas in periphery, Red Suction cup

### Filling the SimuEYE YAG, SLT and LPI models:

Make sure to do this in a safe area away from electronics and the laser platforms as there may be a small amount of water that gets onto the table where this is being performed. A water bath may be used to help fill the eyes but is not required to fill any of the models.

### FILLING WITH THE WATER BATH:

If using a water bath, fill it about half way to the top to allow enough room to fill the models and still make it unlikely that water will spill over the edge when your hands are working under water. Fill the BSS bottle with water and use it to help fill the models underwater. A pumping action can be used with the bottle under water to help dislodge bubbles from the models.

YAG, SLT and LPI models: There are only two parts to these models. The suction cup base screws into the back half of the eye. Unscrew the base from the eye and hold the top half of the eye in the non-dominant hand with the index finger on the center of the soft cornea. Submerge this part in water with the opening facing directly upward and use the index finger in a gentle pumping motion to pump the air bubbles out of the anterior chamber. Use the BSS bottle to squirt water into the areas where bubbles are trapped to wash them out. For the YAG model, use your finger to gently pump on the cornea to fill the AC with water. Be sure to keep the parts and the BSS bottle completely submerged in the water bath. Attach the suction cup base by screwing it into the back half of the eye. Remove the SimuEYE model from the water bath, gently dry it and set it aside for later use.

## FILLING WITHOUT THE WATER BATH:

The YAG, SLT and LPI models can be filled without the use of a water bath by using just the BSS bottle. Unscrew the suction cup base and hold the eye upside down with the iris facing the floor.

For the SLT and LPI models, place the BSS bottle all the way into the back half of the eye. Using a pumping action on the BSS bottle, introduce streams of water into the eye and through the iris or pupil opening until the bubbles in the eye have been eliminated.

For the YAG model, there is no pupil opening for the water to go through. However, the water can fill the anterior chamber around the sides of the support structure. Fill the YAG model halfway with water. While holding the eye face down, use your index finger to gently pump the cornea in and out. This will displace air from the anterior chamber and allow water to fill the AC.

Fill the back of the eyes with water until it is just about to spill over the top while allowing the surface tension of water to create a dome. Carefully screw the suction cup base back into the eye while keeping the vertical orientation of the eye. A few drops of water will spill as the suction cup is screwed all the way in. Tighten down the suction cup all the way to create a seal by grasping it at the thicker area at the base of the threads. Do not press on the cornea once the model is full of water.

## Shelf-life:

The YAG, SLT and LPI models have a long (possibly infinite) shelf-life prior to being filled with water. Once filled with water, it is best to use the eyes that day. If allowed to sit without being used, a small amount of water may evaporate causing air bubbles to form inside the eyes. If this occurs, disassemble and then reassemble the eyes following the same procedures. If the eye has not been fully used, the water may be removed so the eye can be stored for later use.

## Water-tight:

The eyes, once assembled and filled with water, will hold the water quite well unless there is a lot of manipulation. Simply dry off the outside after assembly and set them aside. Do not press on the cornea as the added pressure may cause some leakage of water. Without manipulation, any leakage of water should be very minimal.

Attaching to the stand:

When ready to use the SimulEYE YAG, SLT or LPI models, lightly moisten the bottom of the suction cup base and attach it firmly to the slit lamp stand. It is best to press on the top of the suction cup itself or grasp the eye at the outer ring so as not to put pressure on the cornea when pressing it on to the stand. Adjust the height of the eye on the stand or the height of the stand on the slit lamp so that the SimulEYE sits at the same height as a patient's eye.

Use of LASER lenses:

SimulEYE YAG may be used with or without a capsulotomy lens and coupling gel.

SimulEYE LPI may be used with or without an iridotomy lens and coupling gel.

SimulEYE SLT requires the use of an SLT LASER lens as well as a coupling agent. When the eye is filled with water, a view of the angle is not possible without the lens and the gel. The best coupling agents to use are Systane Gel and Genteal Gel which are essentially the same. Be sure to get the actual gels which are supplied in tubes and not just the gel drops.

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