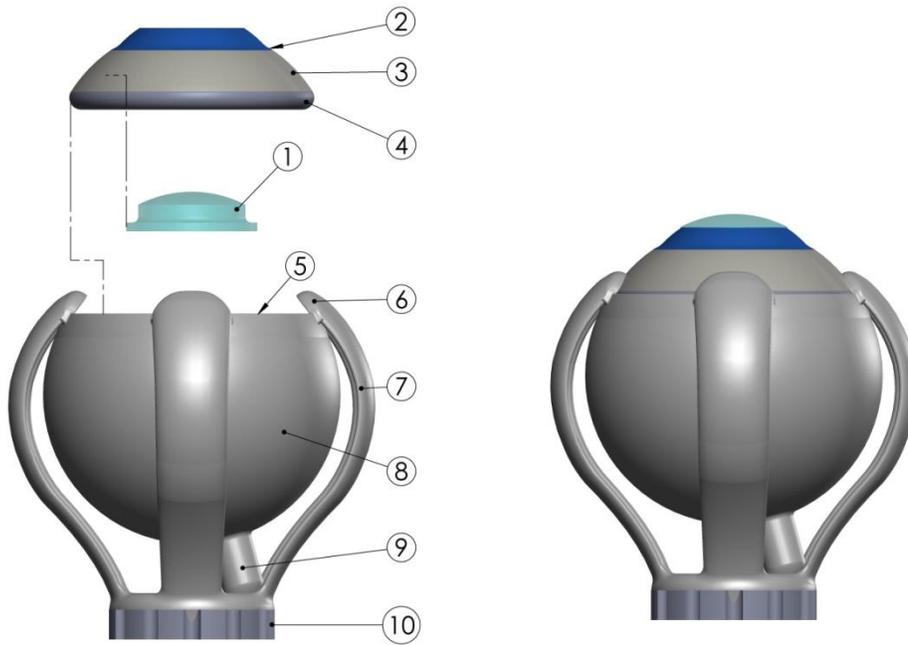


FUNDUS

Model

Watch an instructional video here: [FUNDUS-IFU](#)



1- OPTICAL ELEMENT

ANTERIOR SEGMENT

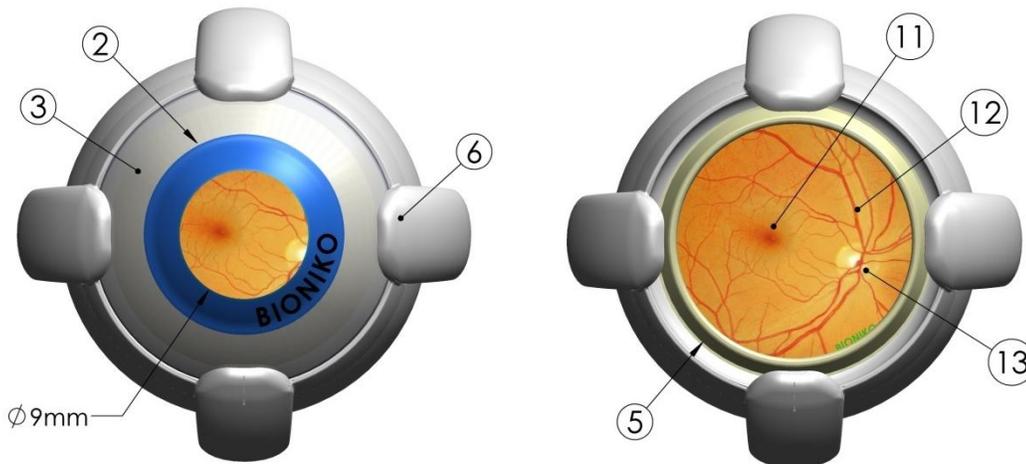
- 2- IRIS-LIMBUS
- 3- PARS PLANA
- 4- SUPPORT RING

POSTERIOR SEGMENT

- 5- SEAL CHANNEL
- 6- MUSCLE INSERTION
- 7- RECTUS MUSCLE
- 8- GLOBE
- 9- OPTIC NERVE
- 10- BASE

RETINA

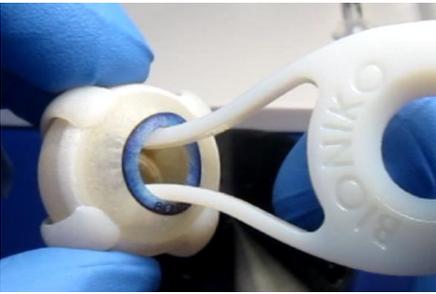
- 11- MACULA
- 12- VASCULATURE
- 13- OPTIC NERVE



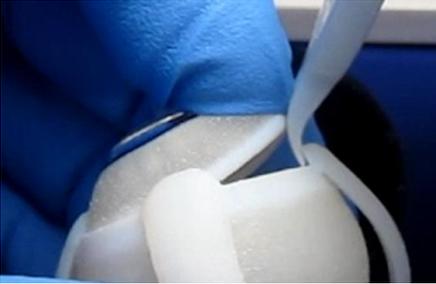
FUNDUS is an innovative model for posterior segment training and simulation. It features a photo-realistic model of the central retina, a crystal clear optical element and a flexible pars plana that allows surgical intervention. Its modular design allows peelable coatings to be applied to the retina, adding vitreous substitutes and insertion of foreign bodies to enhance training scenarios. The modular design maximizes fidelity while being cost effective; its anterior segment can be replaced when necessary, while allowing reuse of the crystal clear optical element and detailed posterior segment.

ASSEMBLY

ANTERIOR SEGMENT - POSTERIOR SEGMENT



DISASSEMBLY: Gently push the optical element (1) into the eye. Insert the legs of the assembly tool through the iris aperture and leverage the anterior segment out.



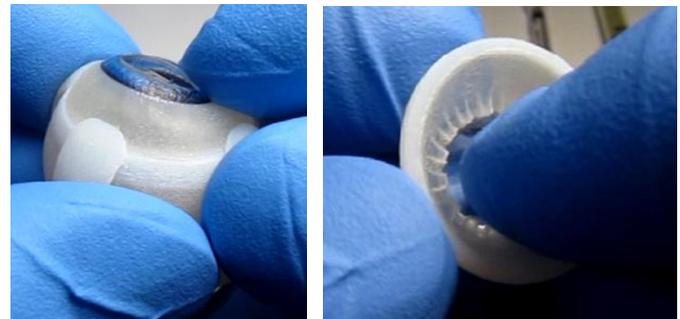
ASSEMBLY: Slide the anterior segment support ring (4) under three muscle insertions (6) and use the assembly tool tip to help it under the fourth muscle insertion. Press on all quadrants to make sure the support ring is properly seated and no gaps are visible.

Fill with vitreous substitute of choice such as egg white. Fill seal channel (5) with **dispersive** viscoelastic before assembling to create a better fluid seal.

ANTERIOR SEGMENT - OPTICAL ELEMENT

DISASSEMBLY: Push the lens down to dislodge from anterior segment.

ASSEMBLY: Gently tuck optical element flange under the ciliary processes. Tip: Wet ciliary processes to facilitate insertion.



SETUP WITH BIONIKO FLEX-ORBIT



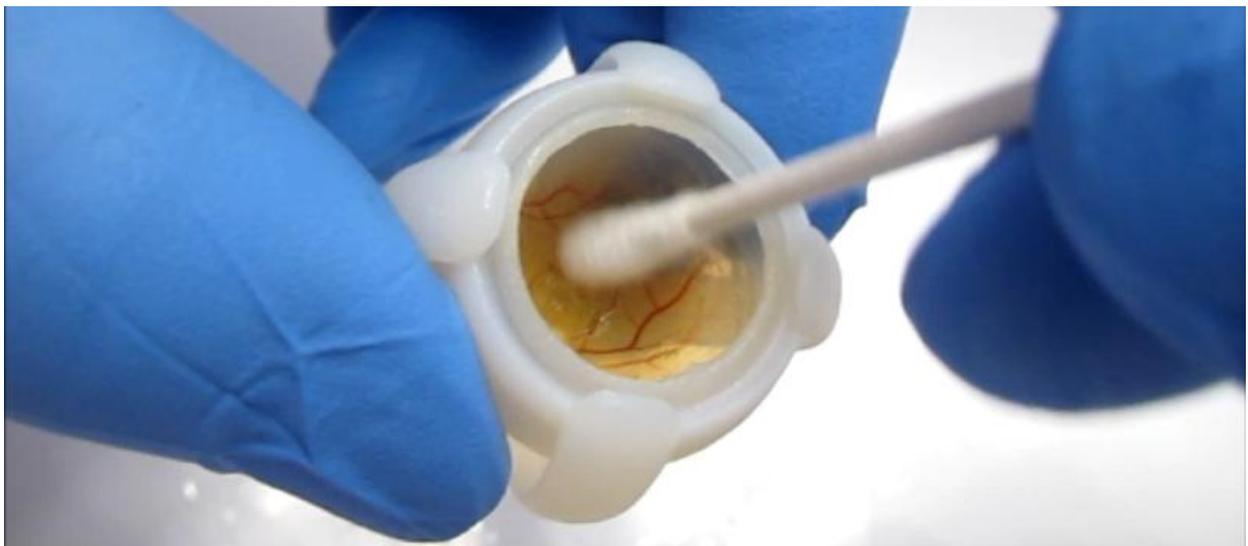
1. Remove all screws from **FLEX-ORBIT**.
2. Squeeze the orbit in the nasal-temporal plane to round the orbit cavity,
3. Insert the **FUNDUS** model with the OPTIC NERVE (9) on the nasal side, and the muscles properly oriented (inferior, superior, lateral, medial).
4. Release the FLEX-ORBIT so the cavity returns to its original shape. The eye should be lightly held by the superior and inferior muscles.
4. Fix **FLEX-ORBIT** in place by pressing downward on a *smooth surface* to engage the suction-cup.

NOTE: Lift the suction release tab to remove FLEX-ORBIT from surface. DO NOT PULL ON THE ORBIT!

INSTRUCTIONS FOR CARE

Follow these recommendations to maximize the life of your models:

- Store in a **cool, dry** and **dark** place (a drawer will be fine). Extended exposure to sunlight (UV) may affect material properties. Prolonged exposure to humidity or high temperatures may adversely affect material properties.
- Do not place **heavy objects** on top of the model. Prolonged compression may deform the model.
- Store with the lens down in its hard box.
- Clean with anti-bacterial soap and water. Do not soak the models for cleaning. Avoid using alcohol or bleach. Gently scrub with cotton swab if necessary.
- Air or blow dry before storing. **Do not store wet**



FAQ

- **Q:** How do I create an ILM peeling scenario?
- **A:** To create ILM peeling scenarios you need the FUNDUS ILM-COAT (sold separately). Please refer to the ILM-COAT instructions or to the video link on the first page to learn more.
- **Q:** What can I use as vitreous substitute?
- **A:** Most gelatinous materials can be used, but egg whites have protein fibers that simulate vitreous consistency and require the cutting action of a vitrectomy probe to be efficiently removed.
- **Q:** How can I assemble without the tool?
- **A:** The FUNDUS model can be assembled and disassembled without a tool, however, we recommend using the tool at all times to prolong the life of your models. Other disassembly methods may cause damage to the models if the model is not handled properly. Make sure the eye is lubricated with viscoelastic when attempting disassembly methods without the tool. See IFU video for details (link at top of document).