Long-term quality of vision is what every patient expects

Innovative HOYA technology provides:
• New Hydrophobic Acrylic material
• Outstanding performances
• For long-lasting ophthalmic surgical outcomes
Quality for Long-term Vision
Cutting-edge IOL technology provides research-driven benefits to protect your patients’ “long-term vision quality”

Optical Surface Quality
- High-quality, precise smooth surface
- Vivinex™ has the similar surface smoothness and optical quality as every marketed HOYA IOL

Long-term Transparency
According to in vitro tests, the new acrylic polymers properties of Vivinex™ drastically reduce glistening

Textured-rough Haptic
- Better grip onto capsular surface is expected
- To avoid the haptic-tip sticks to the optic when it’s folded

Improved Square Edge
- Very sharp edges
- Helps to prevent PCO¹

Optic Edge Texturing Finish
- To reduce Dysphotopsia²

Optical Surface Quality³
- High-quality, precise smooth surface
- Vivinex™ has the similar surface smoothness and optical quality as every marketed HOYA IOL

³. Data on file

Long term visual quality with “ABC Design”
The “ABC Design” of this Aspheric optic maintains high image quality even if the lens is not centrally aligned with the visual axis.⁵

Theoretical Eye Model

3. Data on file
5. Data on file
PCO reduction proven in in vivo tests

*in vivo* test on rabbit eyes shows that proprietary surface treatment offers strong PCO reduction

- Strong capsular adhesion reduced the risk of PCO
- Rabbits receiving lenses with proprietary surface treatment showed a low level of PCO

Right Eye

- Case 1
- Case 2
- Case 3
- Case 4

Control = hydrophobic acrylic material

With Surface Treatment = same acrylic material as control + surface treatment

Left Eye

PCO reduction proven in human eyes

Clinical outcome shows very low PCO rate in post-operative time

- Effective long-term PCO inhibition
- 30 eyes were enrolled and YAG rate was 3.3% at 3 years post-operative time

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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<tbody>
<tr>
<td>Patient A</td>
<td>Patient B</td>
<td>Patient C</td>
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Images courtesy of Hiroyuki Matsushima, MD, PhD, Department of Ophthalmology, Dokkyo Medical University, Japan


** PCO = Posterior Capsule Opacification

7. Japanese clinical study carried out in 2010; internal report

Hiroyuki Matsushima, Dokkyo Medical University. Presented at 68th Annual Congress of Japan Clinical Ophthalmology; November 13, 2014 Kobe Japan
Easy to insert through an incision as low as 2.0 mm

The ergonomically-designed iSert® system provides highly predictable, reproducible IOL delivery through a very small incision.

- New iSert® offers easy handling and a better surgical comfort
- Very small incision size reduces the risk of surgically-induced astigmatism

Vivinex™ iSert®: The innovative 1-piece acrylic lens for long term patient satisfaction

The HOYA surface treatment on the posterior surface and the new feature of the Vivinex™ iSert® design provides outstanding performances.

Step A: Infuse the OVD into the injector through the infusion port with the cannula pointing in a direction perpendicular to the body. Fill up the area indicated by dotted lines with the OVD and confirm that the OVD has covered the entire intraocular lens.

Step B: Press the release tabs, lift up and remove the cover from the case.

Step C: Push the slider slowly until it stops, holding the body with your thumb. Remove the injector from the case.

Step D: Carefully insert the nozzle into the eye through the incision, keeping bevel down. Slowly rotate the screw plunger to inject the lens into the capsular bag.