Not everyone can do this

Introducing RayOne® with patented Lock & Roll™ technology for the smallest fully preloaded IOL incision
Talking to surgeons indicates that they are looking for an injector that can deliver an IOL consistently, with expert control, through a micro incision with minimal wound stretch.

The dilemma? The preloaded IOL systems available to date have sought to meet these requirements by enhancing one element, be it the injector or lens. However, this means that a trade-off has to be made, usually between the ease of use or surgical outcomes.

At Rayner, we believe that the only way to create a true fully preloaded micro incision cataract surgery (MICS) injection system that works consistently without compromise is to design the system as one – both lens and injector. This was the inspiration behind our new RayOne®.

When creating RayOne®, we developed our MICS lens and unique patented Lock & Roll™ technology as part of the same design process; this combination has resulted in the smallest fully preloaded injector available (1.65 mm nozzle).

Our new RayOne® MICS lens is an enhanced version of the tried-and-tested C-flex and Superflex platform, combined into a single 6 mm optic design.

We have retained the material and design benefits of our original lenses, without compromising on proven stability or optical performance.
RayOne® easy to use injector

- Single handed plunger with minimal force required
- True 2-step system
- Ergonomic design for ease of handling
- Sub 2.2 mm incision
- Unique patented Lock & Roll™ technology for consistent delivery

RayOne® enhanced 6 mm optic

- Available as spheric or aberration-neutral aspheric optic
- Based on proven haptic technology for excellent stability¹,²
- Amon-Apple enhanced square edge for minimal PCO 1.7% at 24 months³
- Zero glistenings
- Largest fully preloaded power range on the market -10.0 D to +34.0 D
RayOne® with patented Lock & Roll™ technology for a smoother, more consistent rolling and delivery of the lens via micro incision

Lock & Roll™ technology

- Rolls the lens to under half its size before injection
  - Consistent, smoother delivery
  - Reduces insertion forces
- Fully enclosed cartridge with no lens handling
  - Reduces the risk of lens damage
  - Minimises chance of contamination

Consistently locked and rolled to under half its size in one simple action

Easy to use, true 2-step system

- Simple and intuitive
  - Minimal learning curve
  - Minimises error
- Increase efficiencies
  - Designed to enable repeatability
  - Reduces operating time

Step 1. Insert OVD into cartridge via port
Step 2. Lock cartridge ready for implantation

1.65 mm RayOne® nozzle

- Smallest fully preloaded injector nozzle
  - Ease of insertion
  - Compatible with MICS
- Parallel sided for minimal stretch
  - Sub 2.2 mm wound-in delivery
  - Maintains incision architecture

Full power range, from -10.0 to +34.0 Dioptres

- Largest fully preloaded power range available
  - One system for all patients

1.65 mm nozzle

The smallest fully preloaded injector nozzle
Enabling true micro incision
When considering an intraocular lens, what’s important to you?

Reliable optical outcomes and a low rate of post-operative complications

Designed with Rayner’s Anti-Vaulting Haptic (AVH) Technology®. Our RayOne® IOL provides proven rotational and centration stability, and excellent fixation in the capsular bag.

- Superb centration
  - Maximum offset of only 1 mm 3 months after surgery
- Excellent rotational and torsional stability
  - 3.1° mean IOL rotation 3 months after surgery

Aberration-neutral technology for optimal visual quality and functional visual acuity in all light conditions

Designed with an aspheric anterior surface that creates no spherical aberration. Studies have demonstrated that aberration-neutral technology:

- Offers improved contrast sensitivity compared with spherical IOLs
- Provides better low light level visual acuity than spherical IOLs
- Can offer more depth of field than aberration-negative IOLs by retention of the patient’s natural level of corneal spherical aberration
- Are less susceptible to the effects of decentration than aberration-negative IOLs
- Twice as many patients preferred the aberration-neutral IOL than aberration-negative
- Three times fewer reports of visual disturbances with the aberration-neutral IOL than aberration-negative

Reducing dysphotopsia by design

- Rayner’s Enhanced Square Edge Technology shows no general increase in glare from previous models without a square edge
- The low refractive index (1.46) of Rayacryl

360° Optimised Barrier to reduce PCO – Low Nd: YAG capsulotomy rates

Rayner’s 360° Amon-Apple Enhanced Square Edge creates an optimum barrier to reduce epithelial cell migration including at the haptic-optic junction.

<table>
<thead>
<tr>
<th>ND:YAG CAPSULOTOMY RATES</th>
<th>MEAN TIME TO ND:YAG CAPSULOTOMY</th>
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<tbody>
<tr>
<td>At 12 months</td>
<td>0.6%</td>
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<tr>
<td>At 24 months</td>
<td>1.7%</td>
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</tbody>
</table>

Study of 3,461 patients receiving Rayner 570C IOLs over a 24 month period, Nd:YAG capsulotomy rates were extremely low and comparable with hydrophobic acrylic lenses with square-edge optics.
Vacuole free material for a glistening free IOL

- Single piece IOL created from Rayacryl® an homogeneous material free of microvacuoles, resulting in a glistening free IOL
- Compressible material for delivery through a micro incision
- Excellent handling characteristics with controlled unfolding within the capsular bag
- Low silicone oil adherence
- Excellent uveal biocompatibility
- Hydrophilic acrylic material with low inflammatory response

References:
*Of those who expressed a preference
For optimal visual quality and reliable outcomes choose RayOne®

True 2-step preloaded system
- Easy to use
- Minimises error
- Increases efficiency

Enhanced 6.0 mm optic
- Minimal PCO*
- Proven technology for excellent stability°
- Zero glistenings†

One system for the entire power range
- -10.0 D to +34.0 D
- Consistent through sub 2.2 mm incisions

<table>
<thead>
<tr>
<th>RAYONE® ASPHERIC</th>
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<tbody>
<tr>
<td>Optic diameter</td>
</tr>
<tr>
<td>Overall length</td>
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<tr>
<td>Estimated A-constant</td>
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<tr>
<td>Power range</td>
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<td></td>
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<tr>
<td>Injector nozzle size</td>
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Recommended for use with Ophteis® FR Pro: Sodium Hyaluronate & sorbitol

Ophteis® FR Pro with sorbitol is a viscous cohesive designed to exceed core OVD requirements and enhance endothelial protection during surgery. In addition to a 2% NaHa concentration, FR Pro contains 4% sorbitol, a proven free radical scavenger. During a three-second phaco time study, FR Pro showed greater overall average cell protection (28.4% less cell death) compared to three market-leading OVDs*.

RayOne® also has been validated for use with the entire Rayner Ophteis and Methylvisc OVD ranges, as well as leading competitor OVDs.

*University of Brighton, UK, in vitro phaco free radical studies, data to be published.

Discover why RayOne® is in a class of its own visit rayner.com/rayone