Sulcoflex Trifocal Supplementary IOL

When expectations and outcomes align

An elegant solution for the correction of presbyopia

MADE IN UK
We’ve been innovating IOLs longer than anyone else.

Rayner manufactured the world’s first IOL in 1949, and has remained at the forefront of innovation for nearly 70 years, focused on providing you and your patients with the best IOLs - always driven by science to improve patient outcomes and safety.

Rayner is the only manufacturer of IOLs in the UK, with its state-of-the-art manufacturing plant and Global Headquarters on the South Coast of England.

Supplementing Rayner’s family of IOL systems is a full spectrum of OVDs, the RayPRO patient outcomes app, as well as a range of tear film and pharmaceutical eye care products.

Rayner Sulcoflex Trifocal: An elegant solution for the correction of presbyopia

The Situation
As a cataract and refractive surgeon, achieving the best possible visual results for your patients is paramount. However, challenging patients may expect more, and demand a chance of being spectacle free.

The Solution
The Sulcoflex Trifocal supplementary IOL is an adjustable option which allows you to treat an even wider range of patients for presbyopia, to meet both their visual and lifestyle needs.

A proven patented optic design for comfortable transition from near to distant visual ranges

<table>
<thead>
<tr>
<th>Indications¹,²</th>
</tr>
</thead>
<tbody>
<tr>
<td>For pseudophakic patients with a primary capsular bag IOL</td>
</tr>
<tr>
<td>✓ Presbyopia (DUET procedure)</td>
</tr>
<tr>
<td>✓ Pseudophakic presbyopia* (secondary enhancement)</td>
</tr>
</tbody>
</table>

*Contraindicated for implantation into eyes with multifocal capsular bag IOLs.
Features and benefits of the Sulcoflex Trifocal IOL

Improved visual outcomes designed for less pupil dependency
Sulcoflex Trifocal has fewer rings on the optic surface than many trifocal IOLs for reduced potential visual disturbances and improved night vision.

Optimised diffractive design
Sulcoflex Trifocal uses the Rayner patented diffractive profile that has been designed in partnership with a leading European technology institute. This new design of diffractive technology is the most advanced optic in our history and possibly the most advanced in the industry.

The diffractive surface is a construct of two profiles to form our patented design:
Our patented diffractive step Trifocal technology reduces light loss to only 11%.

- 89% of light transmitted to the retina with a pupil of 3 mm
- Half the light allocated for distance
- Remaining light divided between near and intermediate vision
- Light Energy Split at 3.0 mm pupil
  - 52% Distance
  - 22% Intermediate
  - 26% Near

Comfortable transition from near to distance activities

- Sulcoflex Trifocal improves intermediate visual acuity enabling patients to feel more comfortable transitioning from near to distance activities

- Sulcoflex Trifocal is designed with:
  - +3.50 D near add
    37.5 cm reading plane
  - +1.75 D intermediate add
    75.0 cm reading plane

Designed to avoid the potential problems of conventional “piggy-back” IOLs

- Unique posterior concave surface minimises the possibility of interaction with the primary IOL
- Reduced likelihood of unwanted photopic effects
- Reduced refractive error with hyperopic defocus
When considering a solution for presbyopia, what is important to you?

- Exceptional light usage
- Ease of Use
- Efficacy & patient outcomes
- Versatility to treat a wider range of patients
- An adjustable solution for peace of mind
- Increased accuracy with quarter dioptre steps

With the Rayner Sulcoflex platform, you can expect the following:

**Predictability**
- Proven to provide better centration compared to capsular bag multifocal IOLs
- Predictable refractive outcomes; high visual acuity

**High patient satisfaction**
- Low complication rate
- Stable long-term refractive results

**Reduced surgical risk associated with IOL exchange**
- Less surgical trauma than primary IOL exchange
- Avoids sometimes difficult removal of fibrosed, fixated primary implant
- Allows for implantation reversibility

“The world’s first trifocal supplementary IOL may be used in routine cataract-procedures (DUET) or in pseudophakes for presbyopic correction. This IOL-concept allows the surgeon to adjust the optical system to any unpredictable situation in the future.”

Michael Amon MD, Professor and Head of the Department of Ophthalmology at the Academic Teaching Hospital of St John, Vienna, Austria
### Model Name:
Sulcoflex Trifocal

### Model Number:
IOL703F

### Power Range:
-3.0 D to +3.0 D (increments 0.5 D). -1.0 D to +1.0 D (increments 0.25 D) Trifocal, diffractive, +3.5 D near add and +1.75 D intermediate add at the IOL plane

### Aspheric Trifocal IOL

<table>
<thead>
<tr>
<th>Material</th>
<th>Single piece Rayacryl hydrophilic acrylic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Content</td>
<td>26% in equilibrium</td>
</tr>
<tr>
<td>UV Protection</td>
<td>Benzophenone UV absorbing agent</td>
</tr>
<tr>
<td>UV Light Transmission</td>
<td>UV 10% cut-off is 380 nm</td>
</tr>
<tr>
<td>ABBE</td>
<td>56</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.46</td>
</tr>
<tr>
<td>Overall Diameter</td>
<td>14.00mm</td>
</tr>
<tr>
<td>Optic Diameter</td>
<td>6.50mm</td>
</tr>
<tr>
<td>Optic Shape</td>
<td>Anterior convex, posterior concave</td>
</tr>
<tr>
<td>Asphericity</td>
<td>Aberration-neutral technology</td>
</tr>
<tr>
<td>Haptic Angulation</td>
<td>10° Posterior angulation</td>
</tr>
<tr>
<td>Haptic style</td>
<td>Undulating and rounded C-loop haptics</td>
</tr>
<tr>
<td>Estimated constant for power calculation</td>
<td>Expected lens position = 4.5 mm</td>
</tr>
</tbody>
</table>


Discover more about the Sulcoflex Trifocal, visit rayner.com/sulcoflextrifocal