

SIMVIS GEKKO

Seeing is **believing**



For the first time,
**Patients can see the
real world through
binocular presbyopic
premium corrections
before treatment.**

2EYESVISION

SimVis Gekko™: A revolutionary technology for an accurate and personalized experience of premium presbyopic corrections

SimVis Gekko™ is the most advanced technology for prescribing presbyopic premium corrections.

SimVis Gekko allows patients to experience the real world through binocular presbyopic premium corrections before intraocular lens implantation, contact lens fitting, or presbyopic laser refractive surgery:



Intraocular lenses

Commercial IOLs: Monofocal, EDOF, trifocal, refractive and diffractive to be tested prior to surgery.



Contact lenses

Commercial multifocal CLs: Tested by the patient without fitting the lens, reducing chair time and test lenses.



Presbyopic Lasik patterns

Existing ablation patterns: Check different binocular combinations.



Fine-tuning the right binocular combination

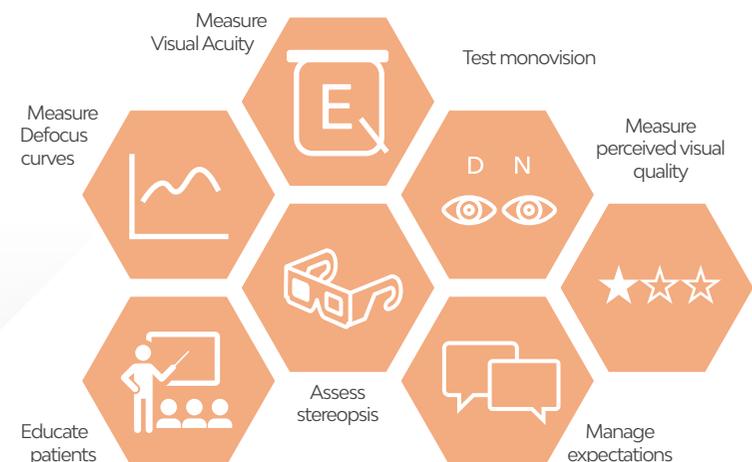
Monovision, mini-monovision, modified monovision, mix & match and blended vision.

Because in the premium market... one size DOESN'T fit all

With SimVis Gekko™ you can increase the adoption of premium presbyopic corrections, reduce the uncertainty of treatment outcomes, and improve patient satisfaction

Testing premium vision

SimVis Gekko is not virtual reality but a real visual experience that allows patients to see the real world with a wide field of view. You can take advantage of SimVis Gekko to:



A personalized assessment in just a few minutes



1

Place the SimVis Gekko unit over the patient's head and adjust the harnesses using the top and back wheels.



2

Align the optical channels with the patient's pupillary distance using the lateral wheels and adjust the height with the top harness.



3

Correct the patient's refraction with trial lenses.



4

Show the patient a far object with their best correction for far distance. It will be sharp.



5

Show the patient a near object with their best correction for far. It will be blurred in presbyopic patients.



6

Choose a premium presbyopic correction from the menu. Near vision will improve.



7

Show now the patient the far object with the selected correction. The patient will evaluate visual satisfaction at different distances.



8

Perform any visual test through the simulated correction.

SimVis Gekko simulates real existing lens models, replicating the relative through-focus visual performance of premium presbyopic corrections prior to surgery, even in patients scheduled for cataract removal

The power of truth: Scientifically validated accurate simulations

The main component of SimVis Gekko is a tunable lens, a **fast programmable liquid lens** able to change its optical power. This lens works under temporal multiplexing, the core of the Sim+Vis Technology™: the desired premium presbyopic correction is simulated by mapping its through-focus optical quality with a temporal pattern of optical powers. The technology has been validated in more than **20 scientific articles***, and is protected by 4 patents.

All simulations follow a systematic three-step validation:



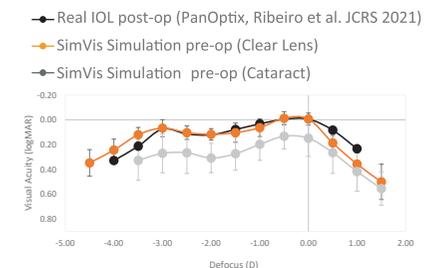
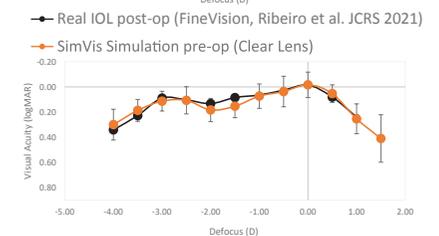
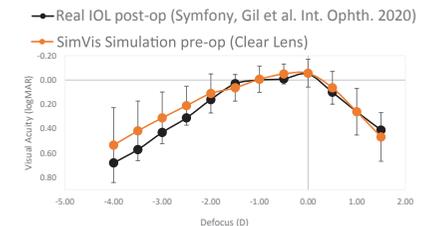
We use public information (scientific publications, regulatory information, independent reports, or official company brochures) to simulate the through-focus performance of each presbyopic correction.



The simulated corrections are validated using custom, precision optical set-ups.



Defocus curves measured preoperatively through SimVis Gekko simulating a given lens are compared with the defocus curves post-operatively with the implanted lens.



*<https://www.2eyesvision.com/en/scientific-publications/>

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SimVis Gekko™ Specifications

Binocular presbyopic premium corrections	Monofocal, EDOF, multifocal, monovision, Mix&Match
Optical Channels	2 (Binocular)
Field of view	20 degrees
Weight	1 Kg
Dimensions	Height: 8 cm Length: 37 cm Width: 23 cm
Commercial status	Commercially available
Regulatory status	A product with regulatory clearance in the USA (FDA) and Europe (CE Mark). Under revision in more than 15 additional countries.

Let's explore
**the vision of the
future together**

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