

# PRESBIOPTIC<sub>x</sub><sup>TM</sup>

First there were "Bi-Focals"  
Then there were "Progressives"  
First came "Multi-Focal IOLs"

NOW  
Introducing...

## PRESBIOPTIC<sub>x</sub><sup>TM</sup>

The  
First Progressive,  
Multi-Focal IOL.

Surgeons around the world are finding that patients with cataracts are becoming more and more active. Sports, driving, swimming and the outdoors are quickly becoming a major part of everyday life. Now patients can experience a world of difference with this superior optical system that allows the patient to have quality vision at multiple distances.

PRESBIOPTIC<sub>x</sub><sup>TM</sup> is designed to be implanted into the capsular bag following phacoemulsification removal of the natural crystalline lens.

### Analyzing Human Stimuli

Neurosurgery teaches that the integration of any stimuli into the human body creates an action which is further developed by the brain into a recognized item. PRESBIOPTIC<sub>x</sub><sup>TM</sup>'s unique design uses the body's own binary gating system to maximize the visual symbol or object seen by the patient and then take full advantage of the human brain's ability to select and to analyze that visual signal it selected.

Utilizing this principle with stereoscopic vision, when the lenses are implanted bilaterally, means

that the patient is offered a better choice of objects to "Focus on" thereby providing better near, mid-range and distant visual acuity.

### Neurology & Psychology Meet Ophthalmology

This human process of binocular rivalry and visual suppression has been studied in depth. Numerous papers and books published by Dr. Randolph Blake and Dr. David Alais offer an insight into why the PRESBIOPTIC<sub>x</sub><sup>TM</sup> IOL works. Dr. Blake states, "Researchers today in neuroscience and cognitive psychology increasingly turn their attention to binocular rivalry and other forms of perceptual ambiguity or bi-stability. The study of fluctuations in visual perception in the face of unchanging visual input offers a means for understanding the link between neural events and visual events, including visual awareness."

### The "Next Generation" Design

Scientists, MDs and PhDs working with Imperial Medical have studied binocular rivalry and believe that the optic design was formed so that, "One of the two monocular stimuli is erased from the perceptual awareness in milliseconds," Sang-Hung Lee PhD. A fact, that is concurred, by David Alais, PhD, University of Sidney.

### Multiple Progressive Zones

The 360° square edge optic is supported in the bag by a pair of ergonomically designed Modified "C" style haptics engineered to support and stabilize the lens more than the normal foldable IOL. The optic itself offers a progression from distant vision in the middle, gradually moving outward to a near zone gradually shifting toward another controlled progressive zone thus allowing for good midrange vision. Unlike normal two, three, four or five ZONE lenses this new lens offers an optic that permits full light penetration to the fovea with none of the usual diffractive lines which rob the patient of valuable lumens or light intensity.

The dioptric "add" to the lens is approximately +2.0 diopters between the reading (near) vision and the distant (far) vision. Surgeons who have patients with near vision requests can custom order up to a +5.0 diopter change if needed.

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### Patient Selection Important

As with any bi-focal, tri-focal or multi-focal lens patient selection is critical for making sure that there are good post operative results. Patients who currently enjoy progressive glasses, contact lenses or binocular vision with one eye near and one eye far are good candidates for a multi-focal PRESBIOPTIC<sub>x</sub><sup>TM</sup> IOL.

Patients with PRESBIOPTIC<sub>x</sub><sup>TM</sup> implants should expect a few days to adjust to their new multifocal vision and to get use to the new freedom from glasses. The patient can expect to have good distant vision for driving, sports and sightseeing. Then, because the lens is designed progressively from far to near, the patient should be able to see the computer screen clearly and read without straining. Some patients have occasionally experienced the need for mono-focal reading glasses from time to time. That is normal for some and should not be of concern.

Surgeons should tell patients that there is a possibility that multi-focal lenses may make them dizzy at first and they should use caution when climbing stairs or performing extreme sports until they have become comfortable with the advanced optical system.

It should also be explained that multi-focal lenses are not for everyone and that they should tell their doctor if, after a week or so, they are still not getting use to the experience.

### But I Don't See Any Lines? Is it Multi-focal?

There are no lines! The new PRESBIOPTIC<sub>x</sub><sup>TM</sup> IOL offers a NEW choice for patients. Because it is Progressive you cannot see the multiple zones without high-tech optical measuring equipment.

Designed to help the patient see as clearly as possible through all focal planes and at all distances, most patients will adjust to their new found vision and enjoy the freedom offered from this revolutionary optical system.

Made in the United States of America

### PRESBIOPTIC<sub>x</sub><sup>TM</sup>

OPTIC: 6.0mm, 360° Square Edge  
LENGTH: 12.5mm & 13.0mm (Custom Order)  
HAPTIC: Modified "C"  
DIOPTERS: 10.0 Diopters – 40.0 Diopters  
(0.5 Diopters increments 15.0D and 30.0D)  
FORMULATION: Progressive Multi-Zone  
METHOD: Refractive Bi-Convex

CE 0086 – ISO 13485

CE Certified under CE0086

ISO Certified and manufactured under all USFDA GMP regulations and compliance. Doctors and patients can be sure that they are receiving one of the finest optics in the world.

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Eye4Vision Int'l.®

Contact us

E-mail: [contact@eye4vision.com](mailto:contact@eye4vision.com)

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