

# *PRESBIOPTICx™*

## *With 'Rx² Optical System™'*

### *Progressive Refractive Multi-focal IOLs*

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.

#### **PRESBIOPTICx™ & PRESBIOPTICx Micro™**

are designed to be implanted into the capsular bag following phacoemulsification of the cataract.

#### **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. The patent pending design uses the body's own binary gating system to maximize the visual symbol or object seen by the patient and then takes full advantage of the human brain's ability to select and analyze that visual signal. Utilizing stereoscopic principles of vision, bilateral implantation means that the patient is offered a better choice of objects from which to "Focus" 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 PRESBIOPTICx™ 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 us 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 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.

#### **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 PRESBIOPTICx™ IOL.

Patients with PRESBIOPTICx™ 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 LINES. IS IT MULTI-FOCAL?**

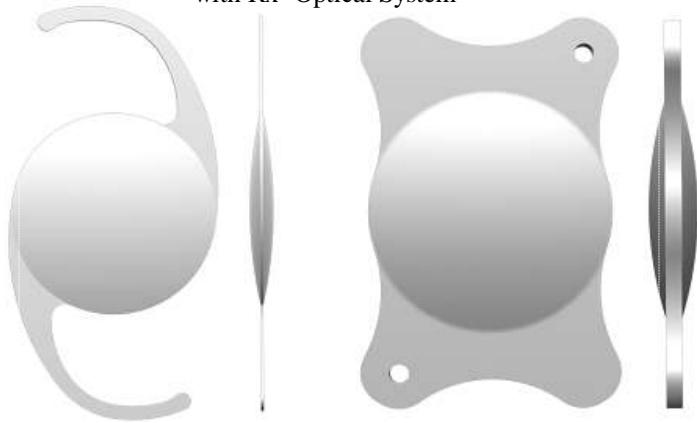
##### ***There are no lines!***

The new PRESBIOPTICx™ 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.

Doctors and patients can be sure that they are receiving one of the finest optics in the world. Designing, developing, building and distributing the best ophthalmic the world is our ultimate goal.

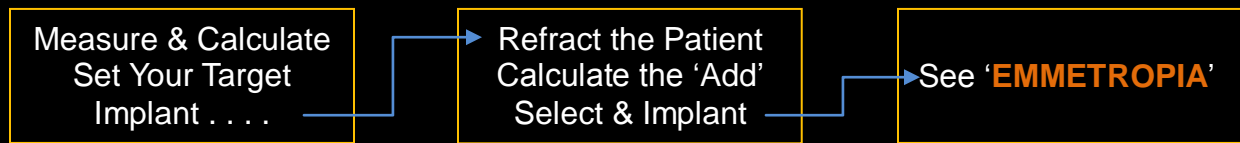
PRESBIOPTICx 'C'<sup>TM</sup> PRESBIOPTICx Micro<sup>TM</sup> :  
with Rx<sup>2</sup> Optical System<sup>TM</sup>



PROGRESSIVE REFRACTIVE MULTI-FOCAL LENSES

Model :	HP60CM	HM60PM
Lens Material :	EOEMA	EOEMA
Haptic Style :	MOD. 'C'	PLATE
Optic Style :	BI-CONVEX	BI-CONVEX
Optic Size :	6.0mm	6.0mm
Overall Length :	12.5mm	11.0mm

## Rx<sup>2</sup> Optical System<sup>TM</sup>



### WHY PRESBIOPTICx<sup>TM</sup> MULTI-FOCAL LENSES WITH Rx<sup>2</sup> OPTICAL SYSTEM<sup>TM</sup>

It's been clearly documented that the most advanced optical systems used in the world today Multifocal IOLs, Pseudo-Accommodating IOLs and Multi-Piece IOLs implanted by today's ophthalmologists create problems such as:

- Halos, Glare, Sparkles & Star bursts
- Poor Reading or Poor Mid Range Acuity
- Low "odds" of Emmetropia for everyone

Over the past six years our team of engineers, scientists and surgeons have solved those problems!

#### 'MIX & MATCH' DOESN'T WORK

doesn't work because usually they are two different optical systems. NOW with Rx<sup>2</sup> the same system creates perfect or near perfect vision every time!

#### MORE LIGHT

Because the "Zones" on the standard Multifocal lens reducing the light to the retina by 20%, IOL companies make the lenses Aspheric, that creates huge vision problems when the lens de-centers.

PRESBIOPTICx<sup>TM</sup> & DIFFRACx<sup>TM</sup> Progressive Multi-focal lenses providing 20% MORE LIGHT to the Retina.

#### DIOPTER ACCURACY 1/10 (+0.1D)

A +1/10 (+0.1) of a Diopter Accuracy offers you the ability to micro-adjust the patient's reading acuity thus increasing the potential for Emmetropia with every surgery !

#### NO LINES, HALOS, SPARKLES OR STAR BURSTS

Doctors can NOW have an excellent chance of offering Emmetropia to 100% of their patients all **without Halos, Glare, Sparkles or Star burst, or other visual problems.** The Rx<sup>2</sup> Optical System<sup>TM</sup> allows the clinician to micro-adjust the patient's visual acuity.

#### HOW IT WORKS

Implant the first lens into the dominant eye or according to your usual protocol. It will have a 0 or 1 in the box by the lens Diopter. If you used a "0" after implantation refract the patient and record the reading acuity. If NO adjustment to reading is needed, implant another "0". If an adjustment of +0.2D is needed you simply add "2" to the first lens and the 2nd implant will have a 2 in the box.

If +0.3D is needed 0+3 = 3 so you would implant a 3 . Research shows that the recessive eye will "take over" and your patient should be happy & spectacle free.

DIFFRACx 'C'<sup>TM</sup>, DIFFRACx Micro<sup>TM</sup>, ASPHERICx<sup>TM</sup>, ASPHERICx Micro<sup>TM</sup>

PRESBIOPTICx<sup>TM</sup> & PRESBIOPTICx Micro<sup>TM</sup>  
with 'Rx<sup>2</sup> Optical System'

CE 0481 – ISO 13485  
Manufactured in the United States of America