

PRESBYOND Laser Blended Vision

PRESBYOND Laser Blended Vision - A clear choice for presbyopic patients

At the Herzig Eye Institute we specialize in treating vision problems that arise from aging. With time, the eye's natural lens can become too stiff to focus up close. As a result, words and other nearby objects appear blurry. The clinical term for this loss of near vision is presbyopia.

There are a number of options to correct presbyopia (loss of reading vision) including SMILE, LASIK, PRK, Refractive Lens Exchange and Phakic IOLs with monovision, multifocal intraocular lenses and, more recently, Presbyond Laser Blended Vision.

What Are the Symptoms of Presbyopia?

You may experience eye fatigue when reading in poor light or at the end of the day, have trouble changing your focus from distance to near, or need to constantly change the position of reading materials to find the right focus. This loss of elasticity in the eye's natural lens becomes evident when near vision starts to get blurry somewhere between the ages of 40 to 50. Nobody is immune from this age-related loss of accommodation, and unchecked certainly means wearing reading glasses, bifocals or progressives.

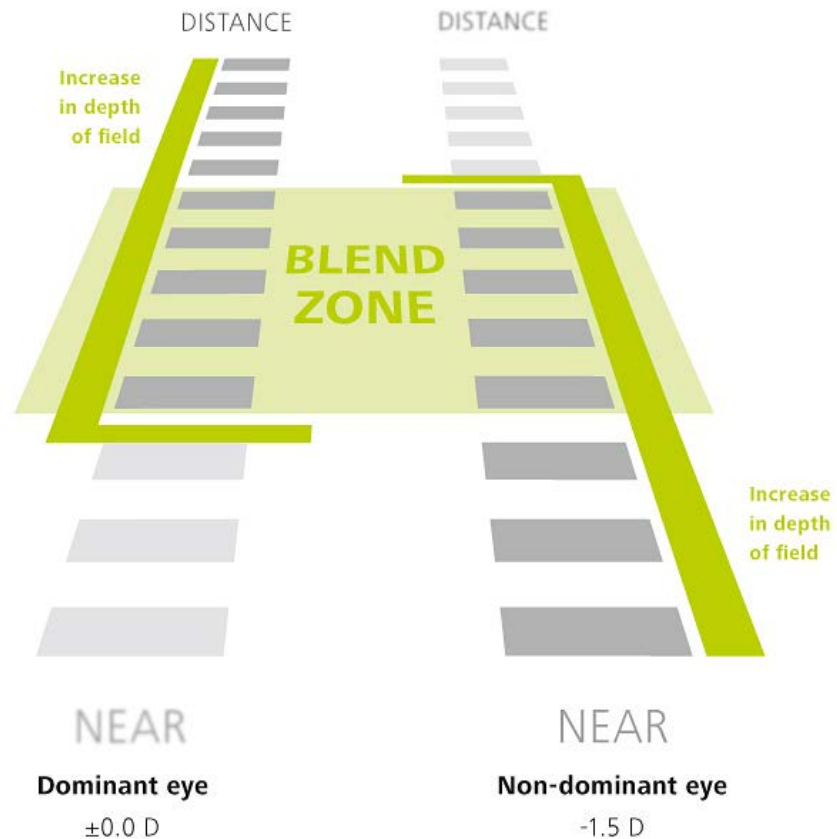
What is Monovision?

Monovision means one eye is fully corrected for distance while the non-dominant eye is left a little under-corrected to see things up close. The brain integrates the visual information from both eyes and adjusts either immediately or within a few weeks to having each eye focus at a different distance. Most people tolerate this very well and can function most of the time without glasses. Monovision can be achieved with all of our High Definition Vision® solutions.

PRESBYOND Laser Blended Vision

PRESBYOND® Laser Blended Vision is similar to monovision. It offers the opportunity to achieve freedom from glasses by combining the simplicity and accuracy of Laser Vision Correction with the benefits of increased depth of field. The dominant eye is corrected for distance vision, and the non-dominant eye is corrected to be slightly nearsighted for near vision. Both eyes are treated to ensure the best possible balance of vision.

PRESBYOND Laser Blended Vision is an absolutely individualized treatment plan. It is not just making the non-dominant eye near sighted as in monovision; the laser also creates a positive spherical aberration in the center of the eye. This micro-monovision strategy makes the image disparity from the two eyes smaller and the brain easily blends the images together. Therefore you are less likely to notice which eye you are looking through for distance or near. A customized fusion of the two images for near and distance vision is created for each patient – this is called the "Blend Zone".



The unique Blend Zone

Essentially, the Blend Zone makes it easy for the brain to merge the images of both eyes, thereby achieving true binocular vision. In addition to excellent near and far vision, with PRESBYOND Laser Blended Vision you will also experience very good visual acuity and contrast sensitivity in the intermediate range. Most patients adapt quickly and are delighted about not having to wear glasses anymore or being less dependent on them.

As an optimized laser method for age-related loss of accommodation, PRESBYOND Laser Blended Vision is ideally suited for serving the needs of patients 40-60 years of age – a fast-growing demographic group interested in sophisticated options. It is also one of the least invasive methods for addressing presbyopia.

Outstanding visual acuity

By customizing each treatment individually, PRESBYOND Laser Blended Vision provides excellent visual sharpness at all distances: near, intermediate and far. According to clinical studies, functional stereo acuity is maintained and there is virtually no loss of contrast sensitivity.

Laser Blended Vision can be performed on those who had LASIK done before and also on those using readers only to reduce the need to wear reading glasses.