

CustomVue™ LASEK

Two great new technologies, CustomVue™ WaveFront ablation, plus Bladeless, All-Laser, No-Cut, No-Flap LASEK have now been combined by top refractive surgeons to correct vision in a way that is safer and more precise! CustomVue™ + LASEK combines the excellent vision correction characteristics of CustomVue™ with the added safety of bladeless LASEK!

CustomVue™

Until recently, laser vision correction was "one-size-fits-all." Using measurements developed for glasses or contacts, surgeons could only identify and correct "lower order aberrations" such as nearsightedness, farsightedness, and astigmatism. But just as no two people are the same, no two people share the same eye irregularities.

WaveFront technology evolved from research by NASA to fix the imperfections of the Hubble Space Telescope, which was launched with faulty optics. NASA scientists spent millions of dollars to develop a way to measure and correct all of these imperfections—resulting in an image sharp enough to focus on galaxies *light-years* away!

CustomVue™ WaveFront measures and then treats your eye's individual imperfections, including "higher order aberrations." The WaveFront map is a *fingerprint* of your eye, including each tiny imperfection, captured by the WaveScan before surgery, and saved in the computer. When it's time for your surgery, this data is used to guide the laser, precisely applying greater treatment where your eye needs more, and less where it needs less.

Eyeglasses or contact lenses are only made to +/- 0.25 D of prescription and only correct for lower order aberrations. CustomVue™ LASEK is more precise (25x more accurate, within +/- 0.01 D) and corrects for both higher and lower order aberrations. As a result, many people after CustomVue™ LASEK (without glasses) *have better vision* than they had with their glasses before surgery.

The LASEK Procedure

LASEK combines the safety of PRK with the rapid recovery of LASIK. All three procedures use the laser to reshape the cornea to correct vision in slightly different ways.

Standard LASEK or LASIK Only Corrects for Lower Order Aberrations

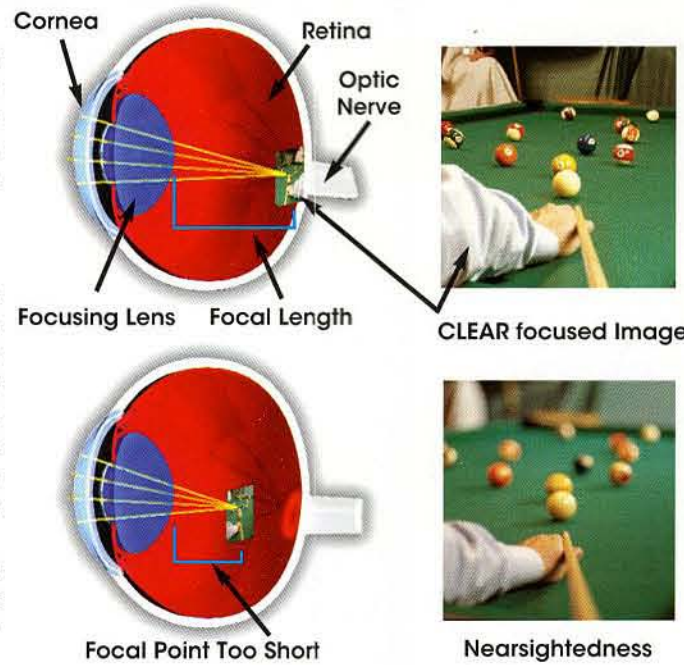
Normal Vision

Normally, the eye views images both close up and in the distance clearly. Light enters the eye through the cornea and is focused at a single point on the retina in the back of the eye.

Refractive Error

Refractive errors such as nearsightedness, farsightedness and astigmatism occur when a misshapen cornea or eyeball causes light rays to focus in front of or behind the retina, or at multiple points, causing the eye to lose its ability to focus clearly.

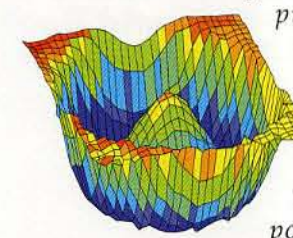
Eyeglasses, contact lenses and early LASIK can correct only these lower order aberrations.



CustomVue™ LASEK Corrects Lower and Higher Order Aberrations

Wavefront Analysis

Before correcting your vision with CustomVue™ LASEK, the doctor will map the focusing errors of your eye with WaveScan® using wavefront analysis. The procedure is painless and takes just a few minutes to complete.

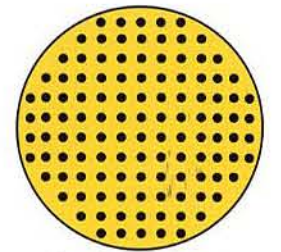


WaveScan® projects a pattern of light into your eye.

The camera sensor pinpoints the location of tiny imperfections throughout the entire visual system by measuring the way light reflects through your eye.

CustomVue™ LASEK then corrects for both general refractive errors (lower order aberrations) and more complex higher order aberrations that are unique to each individual.

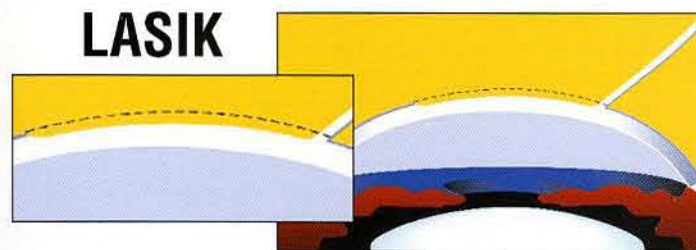
Simplified Simulated Analysis



Projected Image



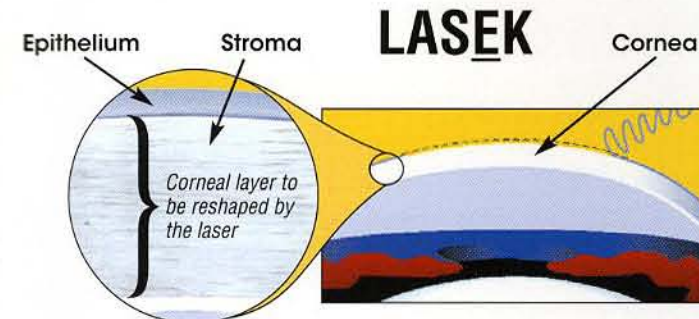
Reflected Image Showing Defects



In LASIK, the creation of a flap reduces post operative discomfort and speeds visual recovery but increases the chances for complications. Also, the thick flap reduces its effectiveness on people who require higher levels of vision correction.

In PRK, the epithelium, or skin of your eye, is removed to allow access to the cornea with the laser. However, the *epithelium* is then discarded, resulting in slower, more uncomfortable recovery while the skin grows back—a process that can take weeks.

In LASIK, an incision is made into the cornea, either with an automated blade (microkeratome) or a laser (IntraLase®). The resulting flap of corneal tissue is lifted to perform the laser correction, and then placed back down to cover the lasered area. Because of the protective flap, visual



recovery is quick, and there is usually no pain. However, any type of flap adds complications to the procedure: including incomplete flaps, "button-hole" flaps, cutting into the eye too deeply so there is not enough tissue to treat with the laser, wrinkles in the flap, and dislocations from trauma—even years later.

LASEK is the newest procedure, designed to combine the best features of PRK and LASIK. In LASEK, the epithelium is gently lifted in a single sheet and folded back, using a special solution or device (sometimes called "epi-LASIK"). After the laser part of the procedure is complete, the epithelial sheet is replaced, and protected by a special contact lens for 3 to 6 days while it heals.

Advantages of LASEK

- LASEK is *safer* than LASIK because *there is no flap*, so all flap-related *complications are eliminated!* In addition, if, for any reason, the epithelial sheet is not perfect, no harm is done, because it will just grow back by itself in a few days.
- LASEK is a *better choice* for people who are nervous about having their eyes cut than the LASIK procedure. If the patient gets tense and squeezes during LASIK, the flap may be incomplete.
- Because there is no flap, LASEK preserves more corneal tissue and *allows higher amounts of correction* to be performed—as high as -14.00 D in certain cases! For this reason, LASEK is also preferred in patients with thin or irregular corneas.
- LASEK is *more comfortable than PRK* because this skin is put back into place, rather than discarded—which allows for more rapid visual recovery without any significant discomfort.
- With the advent of CustomVue™, LASEK *has many advantages over LASIK*, as many "higher-order-aberrations" are *created* by making, lifting, and replacing the flap—but *none* of these can be treated—because the WaveFront map is captured *before* surgery!

What to Expect during your CustomVue™ + LASEK Procedure

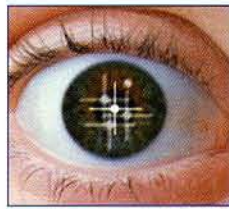
You will come in for your WaveScan® map before surgery. The map will be saved and used to guide the laser during surgery.

On the day of surgery, anesthetic drops will be used to numb your eye. Your surgeon will then use the LASEK technique to create an epithelial sheet to expose the cornea.

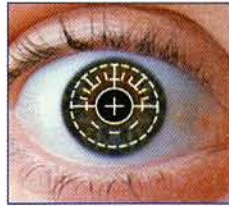
Your eye will be gently held open so you can't blink during the procedure. The ActiveTrak™ system will be engaged to compensate for any eye movements you make, and will automatically track your eyes and follow any small movements you might make. The VISX Star4™ excimer laser—by far the #1 laser used in the US for refractive surgery—will then gently remove microscopic amounts of tissue (less than the thickness of a human hair) with a cool UV light.

Variable Spot Scanning (VSS™), an exclusive VISX® technology, allows for variable-sized laser spots to be applied—a broad beam to treat the entire surface more quickly, and small, precise spots to administer the individualized CustomVue™ correction.

The procedure itself usually takes less than one minute and is totally painless, although you may need to take Tylenol®, Motrin®, or Advil® for a few days afterwards until your light sensitivity, “foreign-body-sensation,” and tearing subside.



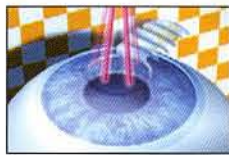
Without ActiveTrak®



ActiveTrak® synchronizes the laser with eye movement



The epithelial tissue is lifted and moved away from the cornea.



The Excimer Laser is used to reshape the cornea. For myopia, the curve of the cornea is flattened.



The epithelial tissue is put back into place.

You will be able to see the clock right after your CustomVue™ LASEK! It will then take several days for you to fully recover, and you will continue to appreciate slight improvements in your vision for as long as six months afterwards!

National Results

Although results can vary from person to person, most patients experience dramatic vision improvement after the CustomVue™ procedure. In the FDA clinical study, 98% of patients were able to see 20/20 or better after CustomVue™. A full 70% saw better than 20/20, and 100% were able to pass a driving test without glasses or contact lenses! Many participants reported that their night vision actually improved with CustomVue™ compared to their glasses or contacts—which is a big improvement over non-CustomVue™ results.

Are you a Good Candidate for CustomVue™ LASEK?

If you are at least 21 years of age, have generally healthy eyes, and wear corrective glasses or contact lenses for nearsightedness, farsightedness, and/or astigmatism, you may be a good candidate for CustomVue™ LASEK! But before you get started, you'll need to meet with your eye surgeon to determine the potential benefits and risks.

Glasses are the safest way to correct refractive errors, but they can be unsightly and annoying. Contacts can also be used, but are not without risk, as thousands of people have permanently lost vision from wearing contacts overnight, wearing them for too many hours, or not cleaning them properly. In addition, contacts can be uncomfortable, particularly for patients with dry eyes or allergies, and patients over 40.

Laser Vision Correction has been FDA approved since the 1990's, and millions of people worldwide have this treatment successfully—in fact, over 1 million Americans are choosing the laser over contacts or glasses each and every year! Your surgeon will have you read and sign a detailed consent form, explaining the risks and benefits, and discuss these with you before your CustomVue™ LASEK—make sure you have all your questions answered before the procedure!

Congratulations on considering a life without glasses or contacts using Laser Vision Correction and CustomVue™ LASEK! You will be glad you did!



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CustomVue™ LASEK

BETTER VISION

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