The CustomVue™ Procedure

Approved by the FDA in 2003, the Wavefront driven CustomVue™ LASIK procedure utilizes a new level of detection to measure and correct the unique corneal imperfections of the eye that were not possible with standard methods. The Wavefront technology was originally developed for use in high-powered telescopes to reduce distortions when viewing distant objects in space. This technology has now been adapted to laser vision correction.

The WaveScan system analyses distortions unique to your entire optical system. The WaveScan sensors then capture the distortions and produce a WavePrint map, or a "fingerprint" of your refractive error. This system identifies and measures imperfections in an individual's eye at least 25 times more precisely than standard methods. Like a fingerprint, no two scans are alike. The digital information from the WaveScan is then transferred to the laser to produce a customized vision correction for each individual's eyes.

Refractive Lens Exchange

Dr. Calvert also performs clear lens exchange as an option for refractive surgery. The refractive lens exchange (RLE) procedure, which is essentially the same as cataract surgery, can be used for patients who want vision correction surgery but are not candidates for LASIK or PRK.

The RLE procedure can be used to correct nearsightedness (myopia), farsightedness (hyperopia), and, in certain cases, when special lenses are used, some astigmatism and presbyopia.

The First Step

Your personalized procedure begins with a careful exam to ensure that you are a good candidate for successful LASIK surgery. Scheduling a free consultation will determine whether or not you are a candidate for LASIK surgery. Dr. Calvert can perform both the custom exam and the laser procedure itself.

The WaveScan system and CustomVue laser vision procedure offers the latest technology for obtaining the best possible vision for the eyes.

For more information, visit our website to access links to the CustomVue home page.

Calvert Ophthalmology Center offers surgical and medical eye care for the entire family. Dr. Calvert provides a full range of advanced services, including:

- Cataracts – No-Shot, No-Stitch, No-Patch procedure
- **LIFESTYLE LENSES** - Offering the latest technology lenses: ReSTOR® to see near and far without glasses and the Toric lens for people with astigmatism to see distance without glasses.
- Bladeless LASIK and PRK - CustomVue options for high definition vision
- Cosmetic & reconstructive eyelid surgery
- Botox, Restylane and collagen injections
- Glaucoma treatment
- Diabetic eye disease
- Retinal diseases
- Macular degeneration
- Tumors of the eyelid
- Blocked tear ducts in children
- Injuries or trauma to the eye

Should you need eye surgery or treatment, you can count on having it performed by a local surgeon who will be there afterwards if you need him.

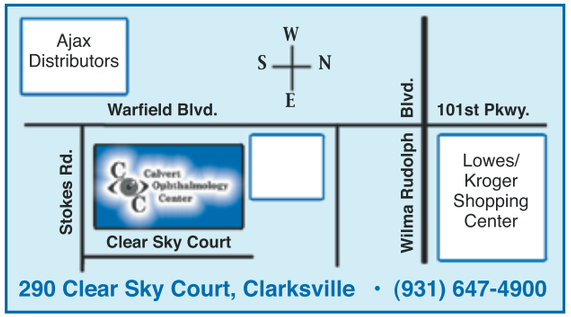
Dr. Calvert is available for consultation at any time and immediate patient evaluation will be provided for urgent cases.

Harold M. Calvert, M.D.
Board Certified Ophthalmologist

Calvert Ophthalmology Centers

www.calverteyecenter.com

TOLL FREE: **1-866-EYE-SURG**
(1-866-393-7874)



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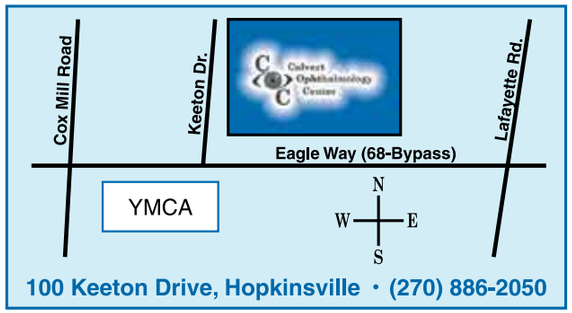

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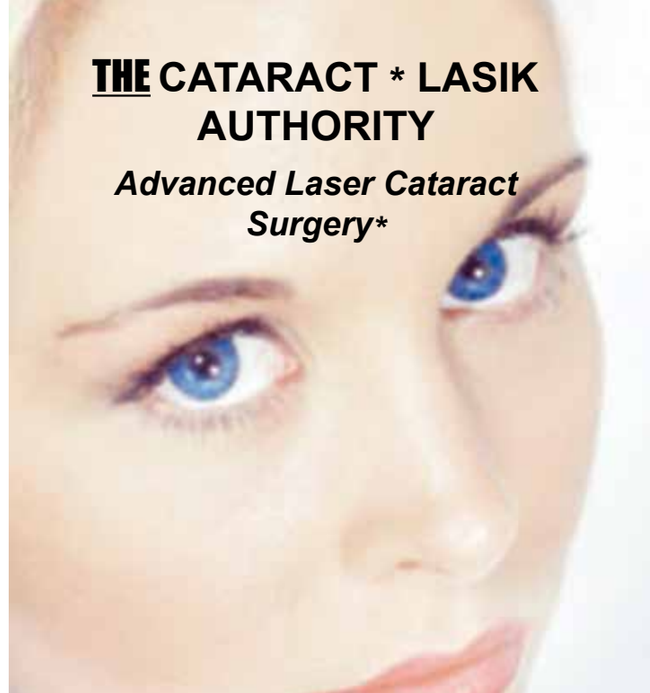


THE CATARACT * LASIK AUTHORITY

Advanced Laser Cataract Surgery*

SEE Better! LOOK Better!

Calvert Ophthalmology Centers

Cataracts

Cataract surgery has made extraordinary and exciting advances over the past 20 years. Over the last few years, however, there has been an innovation in the use of lasers during cataract surgery. Dr. Calvert offers the combination of the most advanced technology in laser cataract surgery and lens implant accuracy that results in the best possible vision correction for distance, near or both. Millions of people every year undergo cataract surgery and see excellent results. State-of-the-art cataract surgery is a safe, effective, and comfortable procedure performed almost exclusively on an outpatient basis.

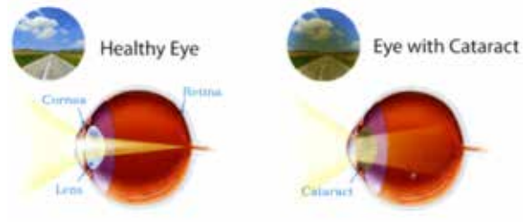
Using the latest techniques, Dr. Calvert performs cataract surgery using a laser-guided system, microscopic size incisions, advanced ultrasonic equipment to break up cataracts into tiny fragments, and foldable intraocular lenses (IOL's) to maintain small incision size. Cataract surgery today is the result of extraordinary technological and surgical advancements that allows millions of people to once again enjoy crisp and clear vision. A true marvel of modern medicine, cataract surgery may restore vision to levels you may have never thought possible.

What is a Cataract?

A cataract is an opacity or cloudiness in the natural lens of the eye. It is still the leading cause of blindness worldwide and represents an important cause of visual impairment in the United States. The development of cataracts in the adult is related to aging, sunlight exposure, smoking, poor nutrition, eye trauma, systemic diseases, and certain medications such as steroids.

A cataract forms slowly. You may not notice a change in your vision at first. And, because a cataract grows slowly, the change in your vision is gradual, sometimes difficult to detect. This is why it is a prudent decision to have a complete medical eye exam once each year.

The following photograph is shown here two times. The photo on the left is viewed with normal vision. The photo on the right has been intentionally augmented to illustrate how the same image would be viewed by a person with cataracts.



The more common symptoms experienced by those with cataracts include:

- Cloudy or blurred vision
- Muted or faded colors
- Double vision or multiple vision
- Feeling the need to have a change in your eyeglasses or contact lens prescription
- Excessive glare or halos from light sources

For over a decade, Dr. Calvert has been using laser-assisted technology to perform LASIK surgery with unparalleled precision and safety. Patients now have the option of choosing a similar technology that is used during cataract surgery. The LenSx® Laser system, designed to revolutionize the key steps in the cataract procedure, may now allow Dr. Calvert to perform more precise, predictable and safe cataract surgery.

The Verion® system first images the patient's eye to plan a procedure that is unique to the patient. Remember, no two eyes are the same. Then, the LenSx® system that is a bladeless, computer-controlled laser helps Dr. Calvert perform your surgery with exacting, individualized precision not attainable with traditional surgical methods. With laser-assisted cataract surgery, a small beam of laser energy makes it possible to Dr. Calvert to remove cataracts without the need for a surgical blade. Additionally, when a laser is used to soften the clouded natural lens, cataract surgery becomes a gentler procedure requiring less ultrasound energy and fewer instruments in the eye. Thus, the use of the laser most often reduces swelling and speeds recovery time.

When patients arrive at Calvert Ophthalmology Center, the staff will perform a series of tests and measurements that Dr. Calvert will use to determine if he/she is a candidate for the laser-assisted cataract surgery. Using that data and the clinical exam, Dr. Calvert will become your partner to create a customized surgical plan that works for your needs and lifestyle. Whether patients choose traditional surgery and traditional lens implants, or laser-assisted surgery and advanced multi-focal lens implants, Dr. Calvert is pleased to offer all options to accommodate the needs of his patients.

Leading the Way to Restored Vision! Advanced Laser Cataract Surgery

Laser-assisted technology offers substantial advantages for many patients without the need for a surgical blade and will help Dr. Calvert to improve his already outstanding record of outcomes and safety. Additionally, using the LenSx® system with the Verion® Image Guided System, Dr. Calvert can more precisely remove cataracts and more accurately predict the power of the intraocular lens implant.

Types Of Lens Implants

Thanks to the latest advances in technology and materials, revolutionary new lens implants are available. In general, all IOL's have the same basic features: the optic portion and the two arm-like structures called haptics that help maintain the position of the IOL in the eye.

Newly designed lenses, like the Alcon ReSTOR® and TORIC IOL's that Dr. Calvert uses, are designed to provide patients with a full range of vision. The revolutionary ReSTOR® lens provides clear distance vision as well as near vision to allow more freedom from glasses for daily tasks. The TORIC lens corrects astigmatism so the patient may only need to wear glasses for reading. If freedom from glasses is your desired outcome, the new lenses may be your best choice for cataract surgery.

Improved Sight . . . at the speed of light.

Bladeless LASIK and PRK

Since the excimer laser's approval by the FDA in 1995, millions of people have undergone LASIK to eliminate their nearsightedness, farsightedness and astigmatism and said good-bye to their dependence on glasses and contact lenses. With new technological advances, there has never been a better time to have LASIK surgery.

Laser In Situ Keratomileusis [LASIK] is a state-of-the-art procedure using the excimer laser to correct nearsightedness, farsightedness and astigmatism. In the LASIK procedure, a thin protective flap of the corneal tissue is created then the excimer laser is used to sculpt the underlying cornea into a new shape to correct myopia, hyperopia and astigmatism. The flap is then returned to its original position (without sutures) and bonds within minutes. The eye does not require patching after the procedure and there is little or no pain since the epithelium is left intact. Vision is improved within hours after the procedure.