



THE BLADE - FREE
LASIK EXPERIENCE

Z LASIK™
Featuring the
**Allegretto Wavelight EYE-Q 400
Excimer Laser**

INDIVIDUALIZED LASER VISION CORRECTION

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Blade Free, All-Laser LASIK has become the method of choice for all those who seek the best vision correction available but do not like the idea of a blade cutting into their eyes. Utilizing the latest

technological advancements in laser technology, we can now offer our patients The Blade Free LASIK Experience that provides an unprecedented level of safety, precision, and comfort, in an effort to obtain the highest quality of post operative vision possible.

The Blade Free LASIK Experience combines two exciting technological advances that offer patients a real possibility to achieve a better than 20/20 outcome. These technological advances are: the Ziemer FEMTO LDV™ Femtosecond Laser for creating the flap, and the Allegretto Wavelight Eye-Q 400 Excimer Laser for shaping a perfect corneal surface.



**The three key steps to
THE BLADE FREE EXPERIENCE:**

1 First, obtaining the best possible data from each eye.



2 Second, creating an excellent flap.



3 Third, addressing the optical needs unique to each patient.



Step 1

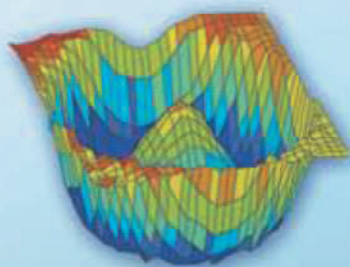
MEASURING THE EYE

Each person's vision is 100% unique to their eyes. With conventional LASIK, doctors were only able to use standard measurements to correct vision, meaning that prescriptions could only provide a limited level of correction.

Now, the Allegretto Wavelight Eye-Q 400 Excimer Laser can address the unique imperfections of your individual vision and provide you with the potential to experience better vision than is possible with glasses or contact lenses.

Using the Allegretto Wavelight Eye-Q 400 Excimer Laser based digital technology, we can now address imperfections in your eye more precisely than with the conventional methods used for glasses and contact lenses.

This information is used as a guide to reshape the cornea during your laser vision treatment.



Step 2

MAKING THE CORNEAL FLAP

LASIK involves making a flap in the cornea and reshaping its inner tissue. Traditionally, this flap was created using a hand held mechanical instrument called a microkeratome which contains a metal blade that slices into the cornea. Although relatively safe, the microkeratome can produce a rough and irregular corneal surface that can affect the quality of vision. To eliminate the potential problems caused by a bladed cut, femtosecond lasers have added a tremendous level of safety and accuracy to flap creation with over a million procedures performed to date.

Our Ziemer FEMTO LDV™ laser represents the next level of excellence in flap creation with a femtosecond laser. Using its ultra-fast, tightly focused, low energy laser beam, microscopic bubbles are created precisely at the intended depth within the cornea. The laser pulses are delivered through a lens which the surgeon is holding against your eye. This causes the layers of the cornea to separate thereby creating a LASIK flap of the desired thickness, size, orientation and location, unique to each patient's needs. Unlike other femtosecond lasers, the bubbles created by the FEMTO LDV disappear immediately after the flap is lifted, creating a smoother surface and allowing the next step of the procedure to begin without any waiting time and without any post-operative inflammation.

This tremendous level of control and customization makes our Blade Free LASIK Experience safer, speeds visual recovery, makes our patients more comfortable, and contributes to better visual outcomes.



Compare Ziemer FEMTO LDV laser to Mechanical Microkeratome Blade

The microkeratome is a mechanical, razor like device operated by hand or a motor, slicing through the cornea to create the flap.

The Ziemer FEMTO LDV

laser is a second generation laser and the fastest technology available. It uses short pulses of invisible light energy to separate the layers of tissue making a custom corneal flap, making the procedure very patient friendly.



Step 3

Customizing The Laser Treatment

On the day of the procedure, anesthetic drops are placed into your eye. Using the Ziemer FEMTO LDV laser a corneal flap is gently created and folded back. Then the cool light from the Allegretto Wavelight Eye-Q 400 Excimer Laser reshapes the inner tissue of the cornea, often in less than a minute, to create a new curvature. During the procedure, the Allegretto Wavelight Eye-Q 400 Excimer Laser eye tracker tracks the eye's tiniest movements (400 times per second) to keep the laser on track as it follows your unique eye map, so you can completely relax during the procedure.



Using the Allegretto Wavelight Eye-Q 400 Excimer Laser, in a recent computerized nomogram study at the Braverman Eye Center with no enhancements:

- **Four months post-operatively, 97% of patients had 20/20 or better uncorrected vision, if their pre-lasik prescription was up to -7.00 diopters spherical equivalent of myopia and up to -3.00 diopters of astigmatism.**
- **100% of eyes had 20/25 or better uncorrected vision.**

More people were satisfied or very satisfied with their night vision after their Allegretto Wavelight Eye-Q 400 Excimer Laser as compared to the prior level of satisfaction using glasses or contact lenses at night.

Although no individual surgical outcome can be guaranteed, this clinical study nevertheless shows the extraordinary effectiveness of this exciting new technology.

PATIENT BENEFITS

With the precision of The Blade Free LASIK Experience, laser vision correction is now an even safer and more predictable procedure. Custom-tailored precise corneal flap creation, especially important for patients with thin corneas.

Safer intra-operative procedure

Reduces risk of unwanted nighttime side effects

More likely to achieve 20/20 or better vision