



**LOTUS**  
EYE HOSPITAL & INSTITUTE

Coimbatore - Tirupur - Salem - Mettupalayam - Kochi

*My New Life Style  
Glass Free Vision*



**Zyoptix Ultimate**

*Personalised precisely for my eye*

*23 years of  
dedicated  
quality service*



**"Zyoptix Ultimate - for a Lifestyle you mean it"**

Advances in science and technology have brought significant benefits and advantages to the treatment of eye diseases. Among other technologies, lasers have proved especially useful in eye care, where they are used to correct refractive errors to eliminate the need for glasses or contact lenses. Lotus Eye Hospital and Institute have been one of the pioneers in LASIK laser eye surgery in India and committedly pioneering in technological revolution in Lasik and helping thousands of patients from across the globe to see the world better than ever before. Lasik is performed in four Lotus centers at Coimbatore, Tirupur, Salem and Kochi.

Lasik procedure consists of two steps. First making a thin hinged flap on the cornea, after lifting the flap Zyoptix Ultimate procedure is performed on the bed of the flap. The corneal flap is repositioned after the completion of treatment. It takes 10-15 minutes for the both the eyes. The Lasik flap creation can be performed in two ways; i.e., using a mechanical microkeratome and 100% blade free Femtosecond laser (Intralase) has many advantages.

**Flap Creation by Microkeratome**



Flap Creation



Eximer Laser Delivery



Flap Repositioning

**Flap Creation by Intralase**



Flap creation



Eximer Laser Delivery



Flap Repositioning

**Aberrations**

Normally our vision is affected by two types of aberrations (imperfections):

- Lower Order aberrations – consist primarily of myopia (near sightedness), hyperopia (far sightedness) as well as astigmatism (distorted vision). These aberrations are relatively simple aberrations and are thus called lower order aberrations. Lower order aberrations affect how much you can see (visual acuity measured by the standard eye chart) but not how well you can see in terms of contrast sensitivity and fine details.
- Higher order aberrations – are more complex imperfections of your entire eye which includes coma, trefoil and spherical aberration. Higher order aberration may influence your quality of vision as they may lead to disturbances such as glare, driving problems, halos, night loss of contrast sensitivity, etc.,

No eye is perfect which means that all eyes have at least some degree of higher order aberrations (pre existing aberrations). Even the Lask procedure itself may induce higher order aberrations (post Lask aberrations) as an unwanted side effect. You may achieve 20/20 vision but your quality of vision may not be as good.



**Myopia (Nearsightedness)**  
Near Objects are seen clearly but distant objects appear blurred.



**Hyperopia (Farsightedness)**  
Distant object can be seen more clearly than near objects



**Astigmatism (Distorted Vision)**  
Objects appear blurred or doubled at all distance

#### Types of Lask

	Treats Lower Order aberrations	Treats Higher Order aberrations	Treats Post-Lask aberrations
Standard Lask	✓	—	—
Zyoptix Lask	✓	✓	—
Aspheric Lask	✓	—	✓
Zyoptix Ultimate	✓	✓	✓

From the above table you can see that Zyoptix Ultimate is superior to other treatment modes. It is the only Lask treatment which combines Wave front and Aspheric modes to reduce both pre-existing and post Lask higher order aberrations.

#### How the aberrations are measured?

The world's latest Zyoptix 217 P Lask platform from Technolas Zyoptix Work Station's Orbscan II Z helps the surgeons to evaluate the size, shape, elevation, curvature, thickness of the cornea measured.

The state of the art Zywave Aberrometer helps the treating surgeon to measure aberrations, pupil size, pupil centre shift and iris recognition.



Zyoptix Ultimate Work Station

#### Who can undergo Lask, Zyoptix Ultimate?

- Any one above 18 yrs of age and power stable for one year
- The patients wearing contact lens should remove the lens before checkup (soft lens – 1 week before / Semi soft – 2 weeks before and Hard lens – 4 weeks before)
- Other eye problems like dry eyes, earlier treatments, medications should report to your treating doctor.

#### Why Zyoptix Ultimate?

Zyoptix Ultimate is the premium Lask Laser treatment for vision correction and it is delivered with 217-P platform from Technolas. The TECHNOLAS Laser is the first laser system in the world to employ Iris recognition technology and an active iris Eye tracker to track all movements of your eye for enhanced safety and accuracy. Zyoptix 217P offers Zyoptix Ultimate and Zyoptix Supractor (Lask for 40 plus age group for presbyopia correction). Zyoptix Ultimate has raised the Lask quality standard to a higher level.



Intracorneal Zyoptix Ultimate in Progress

- Zyoptix Ultimate is superior because Zyoptix Ultimate precisely corrects not only the existing aberrations but also post Lask aberrations.
- Zyoptix Ultimate is very safe because it has iris recognition which prevents wrong eye treatment and wrong treatment to the eye.
- The Advanced Control Eye Tracking (ACE) Technology ensures accuracy and delivers the laser pulses exactly to the spot on the cornea even in those cases where the patient moved the eye inadvertently during treatment.
- The optimum Laser speed shortens the treatment time.
- The aspheric treatment modality in Zyoptix Ultimate enhances quality and prevents blurred vision in dim illumination.
- The post Lask visual outcome in Zyoptix Ultimate is excellent and it eliminates the glare/halos and night vision problems.

#### Post Lask instructions:

After the Lask/Zyoptix Ultimate procedure the doctor will reexamine your eyes before you go home. Lask Surgeon or Lask Staff Nurse will explain the do's and don'ts during the post operative period. For three to four hours after the procedure you may have slight irritation, watering and redness in eye. You'll regain clear vision in 4-6 hours and the vision will improve as the days go by.

#### Do's

- Apply eye drops as per the doctor's instruction.
- Clean your eye lid margins from the next day onwards with sterile tissues.
- No headbath for 3 days.
- Use protective glass for 3 days
- Apply Plastic Shield at bed time for 2 weeks
- You can watch TV, Read books, from the next day onwards.
- You can work on computers after the 72 hours of your treatment.

#### Don'ts

- Do not expose your eyes to dust.
- Do not touch/rub your eyes.
- Do not splash water into the eye for 4 weeks.
- Do not keep your eyes open for long duration.
- Do not swim for one month.
- Do not use eyeliner for one month.
- Avoid self-driving for few days.

## Why to choose Lotus?

Lotus is the listed corporate eye hospital of India. Lotus has the State-of-art technology backed by ophthalmic experts headed by world renowned Ophthalmologist

**Dr. K.Sundramoorthy**, Lotus always upgrades to new technologies as and when new innovations introduced. Lotus has patient centered lasik team consisting of lasik surgeons, counselors and paramedical. Lotus was pioneer in laser vision correction and introduced Multiscan Lasik in 1998 for the first time in India and Epilasik in 2004 for the first time in South East Asia.



**Dr. K. Sundramoorthy**  
Chairman

Now Lotus has installed the world's best lasik laser technology "Zyoptix Ultimate" for the perfect vision correction. Lotus has already performed over 35,000 Lasik procedures in addition to Epilasik, Zyoptix, Zyoptix Ultimate and Intralase Zyoptix Ultimate. Lotus was honored with best performer award for performing highest number of Lasik surgeries in India in the year 2006.

## Testimonials

I never forget this hospital in my life. It opens a wonderful, sightful world to me.

- **Ms. K.T. Ranjani**, Palakkad



At first I had lot of doubts and fear. After the operation I feel more comfortable without my glasses and contact lens. This treatment is really useful and helpful for those who wants to get rid of their glasses. I feel very happy and thanks a lot.

**Ms. N. Sangetha**

Zyoptix Ultimate surgery was very fine and I am happy with your hospitality approach. Lasik team created a friendly atmosphere during treatment. Now I am free from glasses. Thanks.

**Mr. J. Saranya**, Coimbatore



The team was just awesome. From the first enquiry call for information to the day I am discharged the Lasik team has taken care to the best. I would recommend any of friends to their unit with high confidence without glasses.

- **Mr. Rashid Ahmed**, USA

I started wearing glasses from my 11th year onwards and suffered a lot up to 18 years. I had undergone Intralase Zyoptix Ultimate procedure. Thanks to Lotus Eye Care Hospital for their service which helps me to see the world.

- **Mr. Abdul Raaf**, Kerala



I have undergone Epizyoptix Ultimate treatment. The way of approach and treatment from the doctor and the staff was really wonderful and amazing. The people coming to this hospital are specially blessed. Thanks.

- **Mr. Manikandanarajesan**, Coimbatore

I am so happy with my Zyoptix Ultimate treatment. Now I am free from contact lenses and glasses. Staff members are so helpful and my sincere thanks to Lotus.

- **Miss. Shima**, Coimbatore



**LOTUS**  
EYE HOSPITAL & INSTITUTE

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Behind Mithila, Salem-7.  
Ph. : 0427 - 4219900, 4219999, 2413868

### Salem II :

226, Bangalore Main Road,  
Opp. New Bus Stand, Salem - 636 004.  
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