



# LASER VISION SA



See the difference with

**LASER CATARACT SURGERY  
LASER VISION CORRECTION**

[www.LaserVisionSA.com.au](http://www.LaserVisionSA.com.au)

Telephone 08 8359 2422



# SEEING IS LIVING

You can achieve better sight at Laser Vision SA through;

- Laser Vision Correction for freedom from glasses or contact lenses.
- Laser Assisted Cataract procedures where vision is impaired by cataract.

Laser Vision SA is here to assist you in maximising your visual freedom so you can make the most of your life and your journey. Laser Vision SA's excels in providing you with the highest standards of clinical care, technology and service with a warm human touch.

**See the difference – with Laser Vision SA**

## LASER VISION SA

Vision is life.

Vision is your most important sense.

Vision is independence and freedom.

Vision is emotion, communication, hope.

Imagine....

Opening your eyes to a clear, vibrant world

Before you find your glasses or your contacts

Spontaneous and simple

You can see clearly without hindrance

Like you always wanted.

# LASER VISION SA firsts

Laser Vision SA has been at the forefront of vision restoration technology since 1996.

We introduced Adelaide's first IOL Master biometer, OPD scan and current generation toric IOLs. Since then we have been the first in SA to perform;

- Femtosecond laser Lasik.
- Femtosecond laser cataract surgery.
- Flex ReLex laser vision correction.
- SMILE laser vision correction.

Laser Vision SA is a state of the art Laser Vision Correction and Laser Cataract practice located in Adelaide's CBD on Hindmarsh Square with multiple parking and public transport options.

Laser Vision SA is fully accredited to the;

- National Safety and Quality Health Service Standards.
- ISO 9001 Safety Standards.



# LASER VISION SA's Medical Director, Dr Fraenkel

- A Fellow of the Royal Australian and New Zealand College of Ophthalmologists and the Royal Australasian college of Surgeons since 1998.
- Has completed two Fellowships in Corneal, Cataract and Refractive Surgery – one at the Vision Institute in Chatswood NSW and the other at Moorfields Eye Hospital in London.
- Holds a Postgraduate Diploma in Medicine (Refractive Surgery) at the University of Sydney.
- Is a member of the American and the European Societies of Cataract and Refractive Surgery as well as the American Academy of Ophthalmology and the International Society of Refractive Surgery.
- Has trained in LensAR laser cataract surgery at the Assil Eye Institute, Beverly Hills, California, and Lensar Headquarters, Orlando, Florida to become a Certified Applications Trainer.
- Is the first Australian to achieve this status which will allow him to train other Australian and overseas ophthalmologists in laser assisted cataract surgery with LensAR.
- Has also been formerly accredited in the use of the Carl Zeiss Visumax femtosecond and Mel-90 excimer lasers by Carl Zeiss.
- Regularly ventures overseas to find the latest technologies and techniques for our patients.
- Has prepared and published research in the areas of refractive and cataract surgery, and has presented scientific papers at international meetings.



*Dr Graham Fraenkel*

# VISION CORRECTION

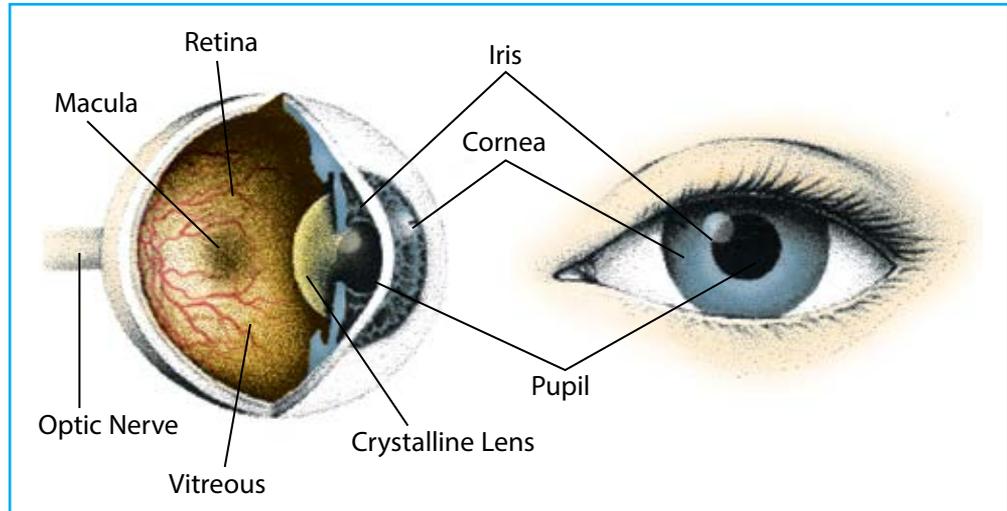
For patients without cataract, Vision Correction refocuses your eye so that it correctly focuses images on your retina.

Vision correction involves the addition or removal of a lens shape to refocus your eye.

Laser Vision Correction in any form removes a lens shape from your cornea. The cornea is the front window of the eye and is the distance lens of your eye.

All laser vision correction procedures are performed as day procedures in our state of the art, fully accredited laser suite in our rooms at 169 Pirie Street, Adelaide.

Your procedure would usually be completed within 12 minutes for both eyes on the day of your procedure, and is virtually pain free.



*Anatomy of the eye*

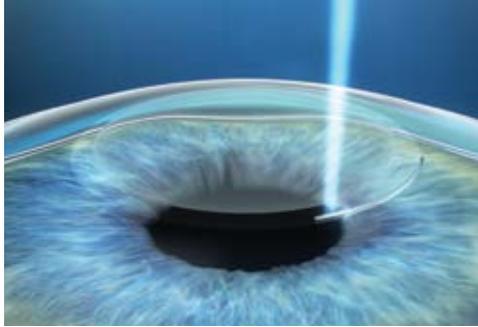
## SMILE LASER CORRECTION

- Is minimally invasive, fast and comfortable.
- Is flapless.
- Reduces the required corneal incision to only 0.1mm deep and 3mm in length.
- Leaves your eye more structurally secure compared with Lasik.
- Leaves 85% more intact corneal nerves compared with Lasik.
- Reduces the post laser dry eye.
- Uses an invisible laser you don't see, hear, feel or smell and takes just 23 seconds.
- Does not remove the top layers of the cornea (the epithelium Bowmans Membrane) as required in Surface Laser (PRK).

SMILE is exclusive to Laser Vision SA in Adelaide. With SMILE, less is truly more.

# SMILE TREATMENT STEPS

Many people like you find dependence on glasses or contacts interferes with living.



## Step 1.

The Zeiss Visumax laser creates a 0.1mm lens shaped layer (the “lenticule”) within your cornea without any blades. This takes only 23 seconds and there is no sound, smell or vision loss during the procedure.

The shape of the lenticule is specific for your exact visual needs and is thinner than a contact lens.

SMILE Vision Correction is the new revolution in vision correction, exclusive to Laser Vision SA.



## Step 2.

The very thin lenticule is then removed through a microtunnel to achieve the change needed to give you back your vision.

Results with SMILE have been outstandingly predictable, even with cases of high myopia >7 Dioptres.



## Step 3.

This minimally invasive procedure changes the shape of the cornea, correcting the refractive error of the eye.

There is no removal of the surface skin of the eye and no flap created or lifted.

Therefore there is less structural change in the cornea compared to other laser vision correction methods and less risk of dry eye.



## FEMTOSECOND LASIK

Femtosecond Lasik is an technologically advanced form of Lasik. FS-Lasik is a bladeless, all laser form of Lasik. Laser Vision SA was the first to perform Femtosecond Lasik in Adelaide.

This advanced technology allows for a smoother flap interface, and significantly increases patient comfort by inducing minimal pressure on the eye during the procedure.

With Femtosecond Lasik using the Carl Zeiss Visumax there is;

- No need to fear blades.
- The comfort, accuracy and reassurance of an all laser procedure.
- No loss of vision during the procedure.
- Minimal if any pressure on the eye compared to conventional Lasik.



## PHOTOREFRACTIVE KERATECTOMY – PRK

Surface Laser (PRK) was the original laser refractive surgery and has been improved over time to achieve a high level of safety and effectiveness.

While SMILE and FS-Lasik procedures have shorter recovery times, PRK remains an important option for some patients with its own set of advantages and may be at times recommended to patients.

## PHAKIC INTRAOCULAR LENSES

If you are not a candidate for SMILE, FS-Lasik or PRK, there may be another option to allow you to significantly reduce your spectacle or contact lens dependence.

This option is essentially inserting a thin lens, almost like a contact lens, into the eye, where it stays unseen behind your pupil. The natural crystalline lens of your eye is not removed, in contrast to cataract surgery. The phakic intraocular lens stays in your eye and unlike external contact lenses does not need regular removal and replacement. The quality of vision achieved with phakic IOLs is very high.

Phakic IOLs are the only form of vision correction that is completely reversible. Though rarely necessary, further

Laser vision correction can usually be performed on the cornea over the top of the phakic IOL if any slight refractive error remains, to fine tune vision without glasses or contact lenses.



## SMILE v LASIK v PRK

	SMILE	LASIK	SURFACE (PRK)
<b>Lasers Used</b>	1 visumax only	2 including excimer	1 excimer
<b>Sound (excimer)</b>	no	yes	yes
<b>Odour</b>	no	yes	yes
<b>"Incision" size</b>	3mm microtunnel	20mm circumference flap	8mm diameter surface removal
<b>Preservation corneal epithelium</b>	✓	✓	✗
<b>Moved between lasers</b>	no	yes	no
<b>Cornea nerves cut</b>	85% less than lasik	yes	yes
<b>Eye make-up after</b>	One day	One week	One week
<b>Swimming after</b>	48 hours	One week	One week
<b>Contact sports after</b>	Immediate	Two weeks	One week
<b>Flap related complications</b>	none	Very rare but can occur	none
<b>Effective optical zone</b>	Bigger for better night vision	Good night vision	Good night vision

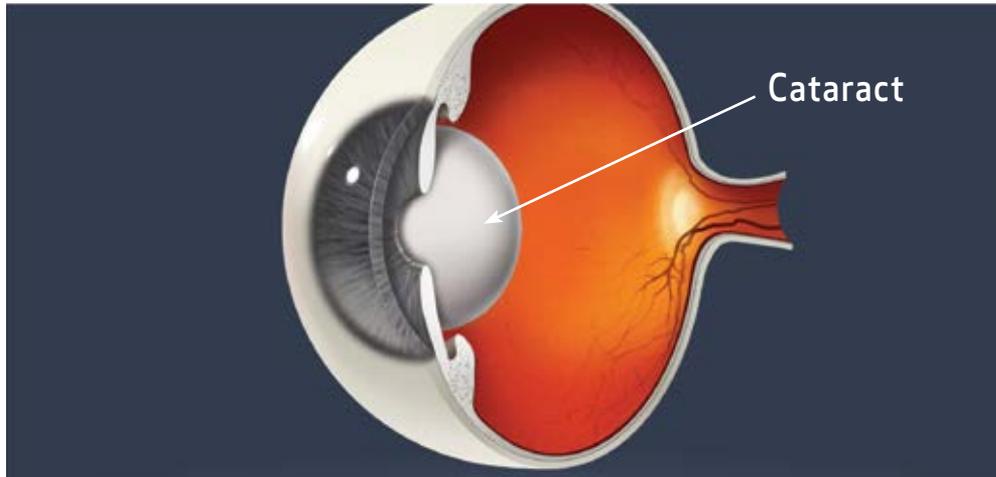
# CATARACTS

Over time, cataracts can affect your vision, and may end up limiting your activities and ability to enjoy life.

More than 120,000 cataract surgeries are performed in Australia each year.



# What are Cataracts?



Your eye works a lot like a camera, using lenses to focus on your retina.

The lens behind the pupil inside your eye can become foggy due to age or other reasons. This condition is known as cataract. Cataract blocks or scatters light as it passes through your eye, making it harder for you to see. More than 70% of Australians over 49 years of age will be affected by cataract or need cataract surgery in the next decade.<sup>1</sup>

Understanding cataract surgery will help you feel more confident about your decision.

- A cataract needs to be removed when it affects your everyday activities, like driving, reading, or watching television.
- Cataract removal is one of the most common and safest operations performed in Australia.
- After the cloudy lens is removed, your doctor will replace it with a new, clear intraocular lens.
- Although you cannot feel or see your new lens, it will help improve your vision.

This lens stays in your eye, maintenance free, forever, without rejection and hardly ever degrades. This means the operation rarely needs to be repeated.

Laser Vision SA specialises in performing optional laser assisted cataract surgery. Where possible, all cataract surgeries are performed without needles or injections around the eye. This way no patch is required over the eye afterwards.

Using the optional LensAR Laser System ensures that your customized cataract procedure can be performed with laser increased precision and accuracy compared to traditional manual cataract surgery,<sup>2</sup> customized to your eye's own unique anatomy.

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1. *Ophthalmology*. 2008 May;115(5):808-814. Ten-year incidence of age-related cataract and cataract surgery in an older Australian population. The Blue Mountains Eye Study. Kanthan GL et al

2. *Effect of LensAR on Vision J Refract Surg*. 2012 Apr;28(4):259-632

# Why Laser Assisted Cataract Surgery?



The optional laser provides potential benefits to you and your eye during cataract surgery by:

1. Making the opening in the lens capsule through which the cataract is removed resulting in more reliable centration of the replacement intraocular lens within the eye.
2. Breaking the cataract up into small segments at the very beginning of the procedure. As with anything, smaller pieces are then easier to handle than the entire cataract, and so easier to remove, helping preserve the cornea and reducing the risk of rupture of the posterior capsule of the cataract.

In essence Laser Assisted Cataract surgery in comparison to conventional all ultrasound phaco cataract surgery is a little like having the confidence of travelling in a vehicle with air bags compared with a vehicle without air bags. Where we can afford it most would prefer to have the additional safety technology can bring. This is the best way we can explain the difference between Laser Assisted Cataract Surgery and conventional all ultrasound phaco cataract surgery.

The optional laser is performed at the very beginning of your cataract procedure and therefore requires no extra visits.

The laser is intended to reduce the risk of intra operative complications but in the absence of these, is not expected to provide better sight afterwards than a similarly uncomplicated phaco cataract procedure.

All cataract procedures are performed at the Glen Osmond Surgicentre, a state of the art, fully accredited day surgery located at 45 Glen Osmond Road, Eastwood.

## SAFETY

*The LensAR Laser System's advanced technology offers greater computer controlled precision and accuracy with reduced phaco energy for your cataract removal.*

## PRECISION

*The LensAR Laser System's Augmented Reality provides the surgeon a 3-D view of your eye, allowing precise information and treatment choices during your cataract removal procedure.*

## RESULTS

*The LensAR Laser System allows our surgeon to precisely place laser pulses that effectively soften your cataract to reduce energy needed for removal and ensure the appropriate condition for the best lens placement, helping to restore your vision to its full potential.*



[LaserVisionSA.com.au](http://LaserVisionSA.com.au)

If you wish to speak with one of our technical staff, or make an appointment with Dr Fraenkel, please call us on 08 8359 2422 and we would be delighted to assist you.

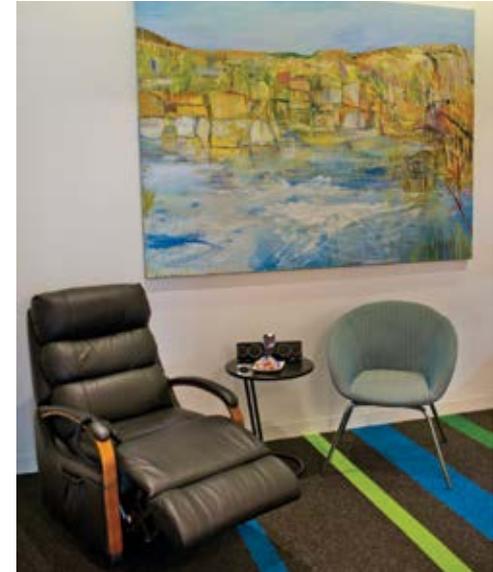
## Advanced Care and Service

We have been at the leading edge of vision restoration for over 15 years. Not only are we proven leaders, all our processes and procedures have been critically and independently assessed by an accredited ISO 9001 auditor to meet ISO 9001 quality standards.

Advanced technology combined with high standards of care ensures the best possible experience and outcomes for every patient. At Laser Vision SA you'll not only feel more comfortable, but also more confident about your procedure.

Whatever your Personalised Vision Plan, we'll thoroughly explain the risks and benefits to you so that you are totally relaxed and ready to proceed. We know that even positive changes can cause anxiety. That's why our staff are always eager to share information with you and offer reassurance and support, every step of the way.

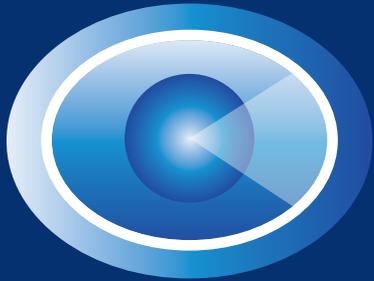
Take a moment to book your obligation-free assessment by contacting us today.



Our practice and laser suite is located in the CBD near Hindmarsh Square on Pirie Street, which is very convenient for on street or multilevel car parking. Bus, train and tram are all very close.

Our staff are highly trained and our facilities are designed to provide you with the best possible experience and results, in a reassuring and caring environment.





# LASER VISION SA

DR GRAHAM FRAENKEL

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