

Your choice

Traditional cataract surgery is a highly successful operation in restoring vision and lifestyle. Laser-Assisted Cataract Surgery is the latest development in the evolution of cataract surgery and offers an unprecedented degree of precision that previously was unattainable.

If you would like more information about Laser-Assisted Cataract Surgery and its benefits for you, your doctor will be happy to discuss the procedure further and answer any of your questions.

Your Ophthalmologist

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The logo features a stylized graphic of a series of purple dots of varying sizes arranged in a curved, upward-pointing path, resembling a laser beam or a cluster of cells. Below this graphic, the word "LensX" is written in a large, bold, sans-serif font, with "LASER" in a smaller, spaced-out font underneath.

Introducing **LensX**[®]
A cataract procedure as
unique as your eyes.

No matter what you value most in life, chances are you are highly dependent on your sight.

If your vision is clouded by cataracts, you may be losing the ability to enjoy the very things that make life worth living.

Fortunately, cataract surgery can help you to regain your vision and your quality of life.



Vision with cataracts (simulated)



Normal vision



Statistics show that 70% of all people over the age of 75 develop cataracts.

What is a cataract?

The human lens, located behind the pupil, works just like the lens of a camera, focusing light on the retina (the back of the eye), which sends the images to the brain. The lens becomes clouded over time and this is what is called a cataract. This keeps light and images from reaching the retina clearly. This can be the reason sharp images become blurred, bright colours become dull, or seeing at night is more difficult. It may also be why reading glasses or bifocals don't seem to help. When you have a cataract, vision has been described as seeing life through old, cloudy film. Cataracts usually occur as you get older, but eye injuries, certain diseases, or even some medications can also cause cataracts. They cannot be prevented and will often progress to a stage that surgery is needed.

A cataract, however, is not a "film" over the eyes and requires an operation inside the eye to remove the old, cloudy lens and replace it with a new, artificial lens that restores your vision, often reducing your dependence on glasses and in many ways, significantly improving your quality of life.



What is cataract surgery?

Cataract surgery is one of the safest and most successful procedures performed today. It is usually a day only procedure requiring only a few hours in a hospital or day surgery centre.

The goal of the operation is to divide the old, cloudy lens into pieces, remove the pieces from the eye and insert an artificial lens to replace the natural lens. The eye is anaesthetised to ensure patient comfort during the procedure.

In traditional cataract surgery micro-incisions (of about 2.5mm) are created by a blade, the front of the lens is opened mechanically and the lens divided by an ultrasonic probe. This probe then removes the dense part of the cataract and after cleaning of the remaining cataract tissue an intraocular lens (IOL) is inserted through this micro-incision. No sutures are usually required because the small incision is self-sealing.

What is LenSx[®] Laser-Assisted Cataract Surgery?

Using the latest laser technology, patients now have the option of choosing a bladeless, computer-controlled LenSx[®] laser to perform the first 3 critical steps of cataract surgery.

The LenSx[®] laser creates precise incisions in the eye, creates a perfectly sized opening in the front of the lens and divides the cataract, all with a high precision image guided femtosecond laser.

This prepares the eye successfully for the subsequent cataract surgery steps and IOL insertion.

The LenSx[®] laser is an advanced precision based technology that uses a computer controlled and image-guided high-frequency femtosecond laser to perform the early stages of the cataract procedure, cutting the tissues with a high degree of precision. Femtosecond laser technology (where making the incision takes the tiniest fraction of a second) has already been well proven over the last 10 years in Refractive Laser Eye Surgery.

The LenSx[®] Femtosecond Laser is based on this technology and is the first available in Australia.





Advanced Technology Intraocular Lenses (IOL's)

Laser-Assisted Cataract Surgery is the ideal technique to achieve the best results with advanced technology IOL's.

Advances in intraocular lens design now give patients the option to choose a Monofocal, Multifocal or Toric IOL to correct their vision.

Both Monofocal and Toric IOLs correct near-sightedness or farsightedness and provide excellent vision at one point of focus while Toric IOLs also correct astigmatism.

Multifocal IOLs provide a fuller range of clearer vision at multiple distances with significantly reduced dependence on glasses.

Your doctor will advise you which Advanced Technology IOLs will suit your lifestyle and vision needs.

- AcrySof IQ Aspheric IOL



Speak to your eye surgeon about your visual needs and they will help you choose an IOL that will suit your needs.

What are the advantages of LenSx® Laser-Assisted Cataract Surgery?

- A bladeless procedure.
- More precise incisions. It is felt this will create more reproducible results with regard to astigmatism allowing better visual results. The incision is also theoretically more robust and hence safer.
- A perfectly shaped and centred lens opening possibly leading to more accurate IOL positioning and better visual results.
- A gentler procedure due to less manipulation of the eye. Laser-Assisted Cataract Surgery has the potential to reduce the energy, fluid and time used during Cataract Surgery therefore ensuring a faster, kinder and gentler approach leading to quicker visual recovery and less damage to the delicate structures inside the eye.

