

Laser Vision Correction



AUCKLANDEYE
See your life CHANGE®

www.aucklandeyelaser.co.nz

Auckland Eye is the Centre of Excellence for Laser Eye Surgery in Auckland

Welcome to a life of freedom from contact lenses and glasses.

At Auckland Eye we offer you simple, long-term solutions for a wide range of common focusing problems.

Our suite of safe and effective laser options includes SMILE, proven world-leading technology available in Auckland, exclusively at Auckland Eye.

Millions of people worldwide have already experienced the freedom of life without glasses and contacts through laser vision correction. With the confidence of knowing that at Auckland Eye each procedure is 100% customised for your eyes only, you too could experience the life-changing benefits of laser eye surgery, whatever the reason – work, sport or just life.

See your life change with Auckland Eye.

Why choose Auckland Eye?

- ➔ **Auckland Eye is the only laser eye centre in Auckland to offer SMILE**, the most advanced laser eye surgery procedure in the world.
- ➔ **We are New Zealand's centre of excellence for eye care**, with a totally tailored approach that provides the best possible outcome for our patients.
- ➔ Combined with Oasis Surgical – Auckland's premier eye surgery facility – **we offer superior laser treatment and world-class care** in a relaxed, friendly environment.
- ➔ **Our team has more years' experience than anyone else in New Zealand**, and our laser surgeons are renowned in their specialist fields.
- ➔ **Auckland Eye's interest free finance options** make it even easier to have laser eye surgery, so you can start enjoying your new eyes sooner.



WHAT IS LASER EYE SURGERY?

As the name suggests, laser eye surgery means using a laser to change the shape of the cornea (surface of your eye) to correct focusing errors with precision.

This adjusts your focus in the same way as wearing contact lenses or glasses but without any of the inconvenience. It's not only a permanent solution, it's customised too – because everyone's eyes are different.

At Auckland Eye we offer three main options for laser eye surgery. You'll need a full assessment from one of our specialists to see which option is right for you:

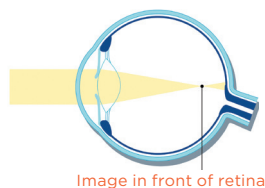
➔ **SMILE (SMall Incision Lenticule Extraction)** – the quickest, most technologically advanced and precise laser eye surgery in the world. This one step, one laser, keyhole laser eye surgery has been designed and perfected by Carl Zeiss – a huge step forward in laser treatments and one that Auckland Eye is proud to be able to offer exclusively in Auckland. Since March 2015, SMILE has been our most popular treatment.

➔ **LASIK (Laser Assisted In-Situ Keratomileusis)** – the most well known laser assisted eye surgery. Millions of people worldwide have already benefited from this advanced two step, two laser technique, with proven results.

➔ **PRK (Photo-Refractive Keratectomy)** – the original proven and effective laser eye surgery. PRK offers a safe option for those who are not candidates for SMILE or LASIK.

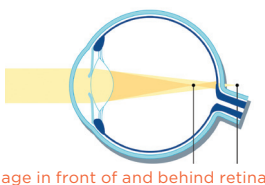
➔ **Following laser eye surgery at Auckland Eye, the vast majority of patients achieve outstanding visual acuity, equal to or better than 20/20 or 6/6 vision.**

WHAT PROBLEMS DOES LASER EYE SURGERY FIX?



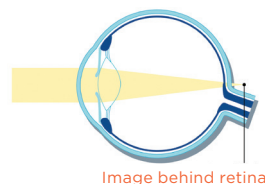
Myopia (near-sightedness)

Myopia is the most common focusing problem treated by laser eye surgery. It affects one in four New Zealanders and occurs when the eye is larger than a 'perfect eye'. Images are focused in front of the retina, causing the distance vision to be more blurred than the near vision.



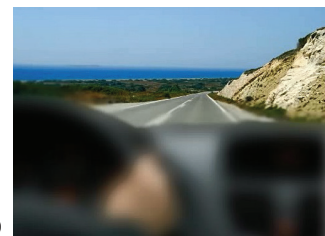
Astigmatism

Astigmatism is another common focusing problem, caused by a difference in the curvature of the cornea. A perfect cornea is round like a soccer ball but an eye with astigmatism is shaped more like a rugby ball, focusing images at more than one point on the retina, resulting in blurred vision. Astigmatism may occur in conjunction with both near or far-sightedness.



Hyperopia (far-sightedness)

Hyperopia occurs when the eye is smaller than the 'perfect eye'. Images are focused past the retina, causing the near vision to be more blurred than the distance vision.



WHAT IS SMILE LASER?

SMILE is the world's most advanced, precise and convenient laser eye surgery – and available exclusively in Auckland with Auckland Eye. It is the most significant advance in laser eye surgery technology in over 10 years. Since Auckland Eye started offering SMILE in March 2015, it has quickly become our most popular method of Laser Vision Correction.

Developed by Carl Zeiss in Germany, this keyhole technique provides a minimally invasive treatment for the correction of myopia and astigmatism. It combines the proven safety of traditional vision correction techniques with even greater comfort and potentially greater precision.

ReLex® SMILE recently received approval from the FDA, a United States agency responsible for protecting public health by assuring the safety, effectiveness and quality of medical devices (and other medical products). This approval has been given following the results of a United States study of 328 patients undergoing the SMILE procedure, and in response to the excellent success rate SMILE has achieved in global markets such as Europe, China, Canada, India, Australia and New Zealand.

SMILE at a glance:

- The world's most advanced laser eye surgery
- Uses only one laser (femtosecond)
- The laser part of the process only takes approximately 25 seconds per eye
- Minimally invasive – no flap & 100% blade-free
- Minimal discomfort
- Fast recovery time
- No more glasses or contact lenses
- The most precise procedure for patients with high levels of myopia
- Corrects a large range of myopia and astigmatism

Comfort and ease

The laser portion of the procedure is quick – it's all over in 25 seconds. The technology is also designed to ensure it's an extremely comfortable procedure. Although everyone is different, recovery is rapid – most people will be feeling great the very next day.

Proven technology

SMILE uses femtosecond laser technology, which has been

proven in the field of laser eye surgery a million times over. So while SMILE is the latest technique, the technology is proven, safe and effective.

Recommended by the world's top surgeons

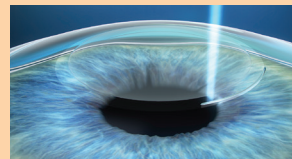
Surgeons around the world have embraced SMILE as an effective laser eye surgery procedure. Not only does it produce excellent visual results, the keyhole technique means there is minimal interference with corneal nerves, so recovery is rapid. Longer term, this may also help to avoid dry eye problems and preserve the strength of the cornea.

SMILE Laser – one step to better vision

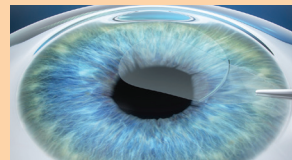
SMILE is a one step, one laser, minimally invasive procedure that uses photo separation of tissue. Computer guided, highly focused laser light is used to create a lenticule (precise lens-shaped disc within the cornea), which is then removed through a tiny keyhole incision.

A precision process

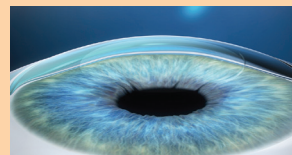
The cornea is made up of 5 layers. To correct focusing problems, only the middle layer (the stroma) has to be reshaped. The SMILE laser applies a series of little bubbles to create the base of the lenticule (in the lower part of the stroma) and then the top of the lenticule (in the upper part of the stroma). Finally, the laser allows for keyhole access, so the surgeon can gently remove the targeted piece of tissue. And that's it – in one step the cornea has been reshaped to provide optimal visual results.



Creation of lenticule and 3mm keyhole opening



Removal of the lenticule



Focusing error is corrected

WHAT IS LASIK?

LASIK is a precision laser procedure that can restore vision for people who suffer from blurred eyesight.

Safe and proven to be effective for a wide range of common focusing problems, Auckland Eye has been offering this technology now for over 15 years.

In fact, the life-changing benefits are so significant that LASIK has become one of the most frequently performed elective surgeries in the world, with over 30 million people already experiencing the freedom of life without glasses and contacts – thanks to LASIK.

LASIK at a glance:

- Precise and proven technology
- Uses two lasers, a femtosecond laser and an excimer laser
- The laser parts of the process take about 60-90 seconds
- Practically painless procedure – 100% blade-free flap creation
- Fast recovery time
- No more glasses or contact lenses
- Treats a wide range of prescriptions including astigmatism

Proven technology

At Auckland Eye we use the most technologically advanced Visumax femtosecond laser and Carl Zeiss Mel90 excimer laser to reshape the cornea. This state-of-the-art technology has already transformed the lives of millions worldwide.

No pain, BIG gain

The entire procedure is painless and very fast – less than 15 minutes. The lasers are used for just 60-90 seconds per eye, re-shaping the front surface of the eye, the cornea. The procedure corrects the eye's distance focusing error, so you won't need glasses or contact lenses for clear distance vision.

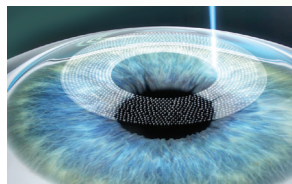
Fast recovery times

The entire LASIK experience takes only around an hour on the day, including preparation time, the procedure itself and relaxation time afterwards. What's more, most patients will

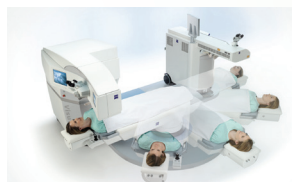
be completely pain free and have good vision on the day after surgery.

LASIK – two steps to better vision

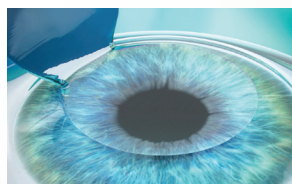
Like all types of laser eye surgery, LASIK works by re-shaping the front surface of the eye, the cornea. It's a simple, two laser, two step, highly precise procedure: first a femtosecond laser uses tiny pulses of light to create microscopic bubbles under the surface of the cornea. This allows the surgeon to gently separate the layers to lift up a flap on the cornea, then use an excimer laser to reshape the exposed area below. The flap is then simply placed back in position.



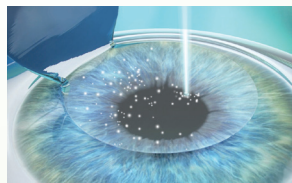
The femtosecond laser creates a corneal flap



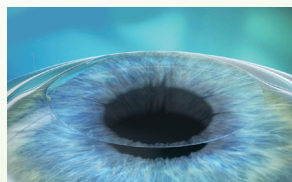
The patient is moved to the excimer laser



The surgeon opens the flap and folds it back to expose the lower corneal layer (stroma) beneath



The excimer laser ablates the pre-calculated amount of corneal tissue, point by point



After the laser surgery is complete, the flap is returned to its original position

PRK

What is PRK (Photo Refractive Keratectomy)?

PRK, also called Surface Laser Ablation, is a laser procedure using only an excimer laser to reshape the cornea. Unlike LASIK where a flap is created, in PRK the surface cells are first gently removed, exposing the layer underneath which is then re-shaped. The surface cells then regenerate, but because this takes time, the recovery is slower. Due to some discomfort and the longer healing period, PRK is used less now than when first introduced. It is still a proven and effective technique for correcting vision and a valid option for people with very thin corneas who are not eligible for our SMILE or LASIK options.

PRK at a glance:

PRK is a good treatment to consider if you have:

- Low to moderate myopia
- A thin cornea
- Low astigmatism
- Previous laser eye/refractive surgery

AM I SUITABLE FOR LASER VISION CORRECTION?

While many people are able to have laser eye surgery, there may be a more suitable option for you. The following conditions will help determine whether you may be a good laser candidate:

- You are 20 years of age or older
- Your vision/prescription has been stable (not worsened) for at least one year
- Your eyes have a healthy cornea, retina, and eye pressure
- Your cornea has sufficient thickness
- You have no evidence of collagen, vascular or autoimmune disease
- You do not take drugs that suppress your immune system
- You are not pregnant or a nursing mother



WHAT TO DO NEXT

First assessment

First things first. You'll receive a free, no-obligation assessment to see whether laser eye surgery is right for you. In just 20 minutes one of our friendly laser technicians will check a range of eye measurements, including the strength of your glasses, your prescription, your corneal shape, your corneal thickness and any optical imperfections.

After this initial assessment, we can tell you which laser eye surgery is best suited for you and answer any questions or concerns you may have about your treatment.

Your specialist assessment follows

If you are suitable for laser eye surgery you'll require an assessment with one of our highly experienced laser surgeons. They will take you through the treatment in more detail, and discuss any questions or concerns you may still have.

If you wear contact lenses, we ask that you leave them out for at least a week prior to this assessment. This ensures your cornea has returned to its natural shape and allows our surgeon to gain more accurate measurements of your eyes.



It's EASY to start seeing your life change with Auckland Eye. Call 0800 63 93 93 for your FREE ASSESSMENT - available at our Remuera and Takapuna locations.



Your surgeon and follow-up assessments are available at a number of our satellite clinics throughout Auckland, for your convenience.



CARING PROFESSIONALS

From assessment, throughout the procedure and during follow up, you'll be looked after by a team of highly skilled professionals.

Auckland Eye specialists are some of the most qualified surgeons in New Zealand, known for their extensive experience and leadership of external educational and research programs.



Dr Dean Corbett
BSc, FRANZCO



Dr David Pendergrast
FRANZCO



Dr Justin Mora
FRANZCO



Dr Sue Ormonde
MD, FRCOphth, FRANZCO



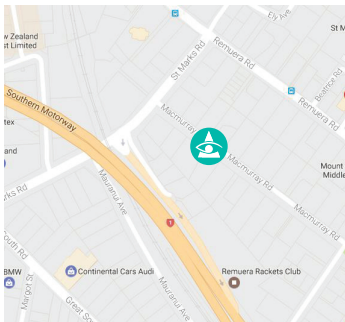
Auckland Eye is accredited by the DAA Group for quality of patient care, so you can be confident you are in the safest possible hands.

**Your FREE LASER ASSESSMENT
is available at the following locations:**



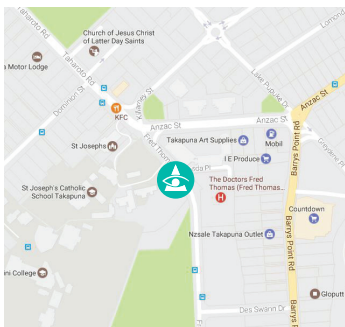
Auckland Eye - Remuera

Oasis Surgical, 2 MacMurray Road



Auckland Eye North Shore - Takapuna

3 Fred Thomas Drive, Takapuna



phone 0800 NEW EYES (0800 63 93 93)

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