

Because of your eyes you can see everything you see...

With everything you do, your eyes play a major role: when you shake hands, when you are in love, when you smile, when you are sad, serious or happy. Your eyes always reflect how you feel and who you are, and that without any effort. Besides all this, you also want to have a good vision.

Eyes are sensitive and not replaceable. If you have to peer or squeeze your eyes to see well, you get help, generally in the form of glasses or contact lenses. However, these days it is possible to get the help you need in the form of refractive surgery.

This can be done in the form of an eye-laser treatment of the cornea (the clear outer layer of the eye which covers the iris.) or an implant lens. Combination treatment are also possible in our specialised clinic.

Of course you are very critical when it comes to the quality, expertise, and safety of possible eye treatment.

Our clinic is in possession of the ZKN **keurmerk** and is ISO 9001-2000 certificated. According to research done by 'the consumer association 2007' on laserclinics in the Netherlands, Retina Total Eye Care® has, with six pluses, the highest recognition. This category is marked as very good.

The **keurmerk** of independent Clinics in the Netherlands and ISO 9001-2000 certificate guarantees that you are in the hands of experts. It represents that the medical care, the professionalism and organisation are of high quality constantly. Customer service, quality, efficiency, safety, and short or no waiting lists are the basic principles.

Safety by expertise and state of the art technique...

Retina Total Eye Care® is the only eyelaserclinic in the Netherlands who can conduct the title "Certified European Opinion Leader of Bausch & Lomb". Bausch&Lomb is the international marketleader in products and equipment for eye health care. Together we launch revolutionary techniques for perfect eyelaser treatments: Advanced Personalized Technology® (APT).

An important aspect of this technology is the personalised treatment. APT is an even further improved version of the Zyoptix 100 Personalised treatment method and only available since 2007.

Because of the development of an 'advanced nomogram' (this is the mathematical model with which the necessary treatment is calculated, based on more than 3000 measurements of the eye) an extremely accurate foreseeability of the result of the treatment is built in.

Clinical trials show that 96% of all treatments the eyesight results between +0.5 and -0.5 dioptre. Visual results show, in 70% of all treated eyes, that the quality of the far sight is better than with correction by glasses or contact lenses. Moreover, vision in the dark also remarkably improves.

With eyes on the future...

Implantlenses

Besides our personalised eye-laser treatment, implantlenses are also a possibility, particularly for higher deviations or when lasering is not possible. This last is for example the case when the cornea is too thin. With implantlenses your own natural lens is removed and an implantlens is placed in return. This is an irreversible intervention. This Artisan/Artiflex-lens is attached to the iris and stays in place perfectly.

Available implantlenses:

- -1.00 to -23.5 dioptre (short-sighted)
- +1.00 to +12 dioptre (far-sighted)
- cylinderdeviations to 7.5 dioptre

Multifocal implantlens, RLE (refractive lens Exchange) ReSTOR®

These new multifocal implantlenses, suitable for 50 years +, are developed to see clear both far away and close up without glasses or contactlenses. The Acrysoft® ReSTOR® lens, which replaces the natural lens, has a unique optical pattern as a result of which it can approach the natural accommodation very accurately. The latest generation ReSTOR® has an Aspheric design and gives you, according to research, a richer contrast at every distance. The results are outstanding.

The advantages of treatment with ReSTOR implantlenses are:

- Clear vision without glasses or contactlenses
- No aberrations, clear vision for both short and long distances
- This lens has a filter against UV-light
- You can never develop cataract in the future
- Your sight will not diminish during the rest of your life without eyecorrection

Fig. 1 ReSTOR Multifocale implantlens

Every person is unique, and so are all eyes. That is the reason that a treatment at Retina is like a 'tailor-made job'. Whether it concerns the intake interview, the pre-examination, the treatment or the post-operative care we always are very precise. During this route you will be intensively guided by our team in a pleasant and personal environment. Because of this – and because of our knowledge and years of experience – you can undergo your treatment relaxed and with trust.

Retina Total Eye Care®

Founded in 1971 by Jan Willem en Lidia van der Linden, Retina Total Eye Care® is, as a clinic, an authority in the field of refractive surgery. They had a clear goal: offering eye care in the broadest sense. Retina Total Eye Care®, the first private laserclinic in the Netherlands, joins all its strengths in one centre in Driebergen. Because there are no co-establishments, its quality is maintained at the highest level.

Important to know...

Retina Total Eye Care® is besides standard lasertreatment also specialised in advanced personalised lasertreatment like Q-sight® and Presbyoptix®. These specialisations are developed by Jan Willem van der Linden and his team. You can define them as 'tailored' eye-corrections and they are only available at Retina Total Eye Care®. Our clinic is known for its strict selection when it comes to safety and stipulation if a client meets the requirements to proceed safely with any treatment.

A careful start...

Before you effectively enter our operating-room, there will be an extended optometric and eye-surgical pre-examination. Detailed, because we want to be sure that the results will be something you will be enthusiastic about. Our procedure starts with an intake-interview. During that conversation we try to create a detailed picture of your health and motivation. With this we can assess if you qualify for one of our treatments. This is essential because not all eyes are suitable for these kind of treatment. When the intake conversation has gone to satisfaction we can make an appointment for the pre-examination.

All professions of eye care are present at Retina Total Eye Care. An optometrist is present in the first line of medical care. He or she is the right person to screen your eyes for possible affection. With the use of highly advanced machinery and in close cooperation with the oculists, who are connected to the centre, our optometrists determine the condition of your eyes. The orthoptist however is like the oculist active in the second line of medical care. The orthoptist is specialised in the diagnoses and treatment of squinting and lazy eyes syndrome. Ophthalmology in the second line of eye care is at Retina Total Eye Care mainly concentrated on refractive surgery.

Vision on perfection and perfect vision

“Every improvement is the basis for a new improvement”, is the device of Retina Total Eye Care®. This device derives from the Japanese Kaizen and it is this philosophy that gives the company a very unique and recognizable aspect.

We only use highly advanced technologies and techniques in our aim at perfection.

Quicksan

Lasering your eyes is bound to certain limits. Therefore we advise you, if you have high vision deviations, to have an quickscan made. This is free of any costs. This examination states apart from the pre-examination and gives indications for possible treatment methods. The result of this quickscan can be the reason to proceed with an extensive pre-examination.

Pre-examination

During the extensive pre-examination all necessary optometrical and eye-surgical investigations will be carried out. This includes a measurement of the sight prescription, an examination of the cornea, the retina and the pupil size. We scan the eye at 11.000 individual points to determine the presence and size of sight errors. The pre-examination takes more than two hours and gives us a complete picture about the health of your eyes, and therefore tells us what kind of treatment would be suitable for you. Because of this vigorous examination risk on complications are minimal.

Orbscan II Z

The orbscan II Z is a multi-purpose and multi-dimensional measuring instrument which can measure the form of the front and back surface of the cornea as well as its thickness. It measures at 11.000 individual points to make a detailed picture of your unique cornea.

Zywave Aberrometer

This scan analyses your eyesight prescription, all aberrations (sight errors) and the size of the pupils at day and night. The Zywave Aberrometer is an advanced instrument which can measure your needed prescription with 1/100 diopter precision. Every eye is unique when it comes to the shape and its optical functioning. The human eye always has small optical aberrations. The degree of this is individually measured. Especially with wide pupils the aberrations can influence the quality of the sight. With the Zywave, individual aberrations are traced, analysed and used to calculate the needed Zyoptic 100 Personalised treatment.

Iris recognition technology

This is software, with which a recording is made of each eye, so that exchange of eyes and persons are impossible. It creates an eye-passport. It also makes sure that any rotation that influences the results of examination can be corrected accurately.

IOL Master

We have the newest "Zeiss IOL Master" with advanced Technology Software. It, by means of laser, measures the axial eyelength is with 1/100 mm. accuracy. With this information the needed implant lens is calculated.

Bausch & Lomb Zyoptix 100 APT Laser, Advanced Personalized Technology with Trulink™

This laser uses the latest Advanced Personalised technology. The build in multi-dimensional eye-following system and iris recognition tracks every movement and rotation of the eye during the treatment.

This fastest eyelaser with high frequency uses two kinds of "flyingspot" laser pulses. Because of this, dehydration of the cornea will not occur. The results after treatment are even more predictable pre-operative. 70% of the treated eyes have vision which exceeds results possible with correction by glasses or contact lenses. Especially in twilight and at night the sight improves with most clients.

Bausch & Lomb Zyoptix XP Microkeratome

This Zyoptix XP is the newest generation microkeratome. This instrument has an exactitude of 0.0008mm. It cuts a very precise flap in the cornea. By means of a safety-stop the XP offers a high level of safety and insures tissue saving. For the first time there is an extension to the Advanced Zyoptix XP Epi-Separator which is used for the Epi-Lasik treatment. International clinical studies show that the XP microkeratome guarantees the best results.

Advanced® lasertreatment

With this standard treatment only the necessary correction is applied – just as glasses or contact lenses would do – with LASIK, Epi-LASIK and LASEK technique. You can find more information about the differences between these methods on our website.

Advanced Lasertreatment

When the pre-examination is completed, based on the clinical results and a mathematical model, an individual profile is made. The clinical optometrist and/or eye-surgeon will discuss the possibilities within your profile with you.

Zyoptix 100 Tissue Saving

The zyoptix 100 Tissue Saving treatment is a laser treatment with which individual aberrations will not be taken into account. We advise this treatment when you have a relative thin cornea and with small or normal pupils. The vision after this treatment will be equivalent to the vision before treatment with correction by glasses or contact lenses.

Zyoptix 100 Aspheric

When treated by the Zyoptix Aspheric, as with the zyoptix 100 Tissue Saving treatment, individual aberrations will also not be taken into account, and there is no use of 'wavefront-technique'. The natural shape of the cornea is aspheric. This means that the curving of the cornea blunts from the centre to the sides. Because of this regular decreasing curve the cornea has the resemblance of an elliptical shape. With this natural shape the chance of optical aberrations to the sides are minimal. The Zyoptix 100 Aspheric treatment strives to maintain this natural curving.

The advantages of a Zyoptix 100 Aspheric correction are: higher quality, especially at night, less side effects, like halos for example (rings around lamps).

Zyoptix 100 Personalised

This is the so called 'wave-front technique', with which a detailed topography is made of the cornea. Even the smallest irregularities are localised. The eye-sight deviation is measured at several points. Variations can be determined every one mm. with 1/100 diopter accuracy, and every point will get the individual correction that is needed. By correction of these individual points the quality of the vision increases considerably.

Q-Sight®

The Q in Q-Sight stands for Quality. Q-sight is the personalised laser method, a top treatment which is mostly applied. This method is only done by Retina Total Eye Care®. This method not only corrects aberrations but also corrects every point in the cornea individually. Variations are determined every one mm. and accuracy of deviation measurement is 1/110 diopter. Seeing at night will also improve. Jan Willem van der Linden developed the algorithmic treatment nomogram. With this mathematic model all the information of all the measurements are calculated into an individual treatment profile, so you will see even more clearly. The Q-Sight method can be used for the LASEK as well as the LASIK treatment.

Presbyotix®

The natural capability of the eyes to focus declines around 50 years of age. This is a natural process. With reading glasses or bifocal glasses as well as with contact lenses this can be corrected. Jan Willem developed in 2001 an advanced laser method with which it is possible to correct this process as well. The far-sight as well as the near sight is corrected in one treatment, so that the vision is corrected optimally. This method has been refined during the years of experience with Presbyotix® and the result has been proven successful.

Treatment

Laser treatment is painless and takes place in a sterile operating-room (clean room class 1). The cornea is anaesthetised (sedated) with eye drops. A Bausch & Lomb Zyoptix 100 ATP Laser with Trulink™ guarantees a technically perfect operation. This instrument is equipped with an iris-recognition system, with which it is impossible to mistake the eye of a client for another. It also checks the eye rotation with a 240Hz multi-dimensional eye following system (eyetracker MDET). The instruments which are used during the treatment are sterilised according to strict standards (in an autoclave). All materials which are used by the surgeon are sterile and disposed after every eye that is treated.

Depending on the method used (LASIK, Epi-LASIK or LASEK) there is always individual advice which will be discussed with you personally.

Post-operative care

Whatever kind of treatment is chosen, the post-operative care is always carried out by our own team. With Retina Total Eye Care® the medical care after the treatment is just as important and accurate as before treatment. Because of this there will be clarity about the development of the result of the treatment and possible complications will be controlled from the start.

Accuracy minimises the risk of complications

Possible complications of LASIK

These complications are so called 'flap-related'. By this we mean that the making of the flap in the cornea and/or the healing of it does not go according to plan. In spite of our punctual procedure and technical perfection, there will always remain a small risk that the process will develop differently from what is expected. Think of shifting, foldings, or wrinkling of the flap. These rare complications mostly occur within one day after LASIK treatment and are, subject to early recognition by a doctor and clinical optometrist, correctable. During the cutting of the flap the cornea could turn out to be too thin for a safe treatment. In this case it will be placed back and proceeding treatment will not be possible.

Sometimes infections can occur. This will present itself as a red eye and blurry vision. The sooner this is recognised the smaller the risk for unwanted results. Preventively we supply you with eye drops which will minimise the chance of infection. You need to use these for little less than a week.

Just like with other forms of laser eye surgery general complications can occur: dry eyes, halo's, and under- or overcorrection (most of the time after treatment is possible). Most of the mentioned complications decrease after a while by themselves.

It could be that a small refractive error returns after treatment. This is what we call regression. The risk of this is very small. With a simple procedure this can be corrected.

Another complication described in literature is that the cornea can get too thin if too much tissue is removed by laser. In the long run a cornea transplantation would be necessary to maintain sight. At Retina Total Eye Care the cornea thickness is measured at 11.000 points before and after treatment.

Possible complications of LASEK

Complications are rare with this method. These can originate from the epithelial treatment. Sometimes it is difficult to detach the epithelial lining from the underlying surface, as a result of which the shape and thickness will become irregular and healing will be more complicated after replacement.

There is also a chance of subtile diffusion; this touch of decreased clarity of the cornea is called "haze" and occurs as a reaction in the front part of the cornea. This usually resolves within three months.

Just as with other lasertreatments general complication can occur: dry eyes, under- or overcorrection (most of the time correctable with aftertreatment) and eye infections. This risk of these complications is minimal.

According to international literature severe complications are very rare (less than 0.1%). Most problems after treatment can be corrected with a simple procedure.

Good information, guidance and instructions decrease the risk of complications and side effects.

Taking good care of your most precious possession

Opening Hours

Tuesday to Friday: 09.30-17.30 hrs

Evening opening every Friday: 19.00-21.00 hrs

Saturday: 09.30-17.00 hrs

Route Discription

By car:

From the high way A12 you take the exit Driebergen/Zeist (nr. 20). At the traffic lights you turn right in the direction of Driebergen. You are now in the "Hoofdstraat" and should follow this into the centre of Driebergen. Just before the petrol station you turn left. After approximately 100 m. you will see a large parking site where you can park your car. You walk to the exit on the other side from which you will get into the shopping-street the "Traay" where you will find Retina Total Eye Care to your left.

Public Transport:

From the train station of Driebergen/Zeist you can take bus 56 of 50 to Retina Total Eye Care at the "Traay". You will find us in the midst of the shopping-street to your left.