

LASER EYE SURGERY



WHAT IS LASER EYE SURGERY ?

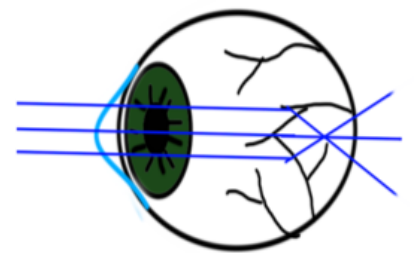
Laser eye surgery ensures permanent improvement in the vision for people with short eye-sightedness. Short eye-sightedness, an eye condition that causes a distant object to look blurred, is caused by ineffective refraction of light in the cornea of the eye. Laser surgery corrects this eye problem by carving and changing the shape of the cornea very slightly. This technology allows people to be free from contact lenses and eyewear for the rest of their lives! The most commonly used type of laser eye surgery is called Laser-Assisted In Situ Keratomileusis, known as "LASIK".

WHY DO WE HAVE SHORT-EYE SIGHTEDNESS/ MYOPIA?

Short eye sightedness, also known as myopia, is a condition where a person can only see objects that are up close. This condition could be caused by two main reasons:

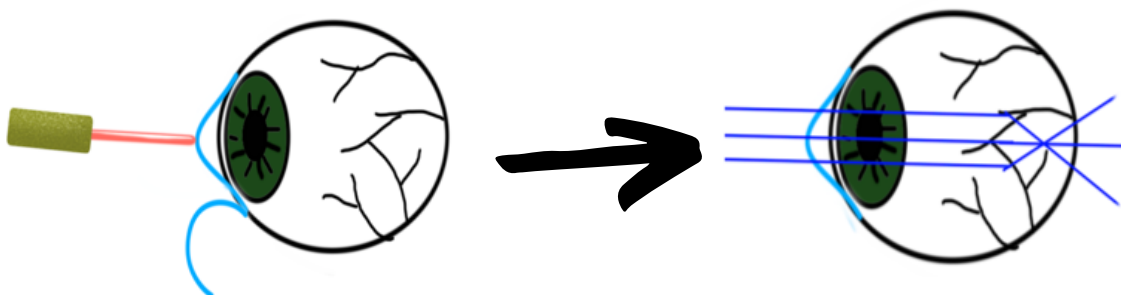
- Eyeball is too long.
- Cornea is too curved compared to eye length.

Both causes the focal point to focus at a point before the retina, making far objects to appear blurry.



HOW DOES LASIK WORK?

LASIK involves two different types of lasers. The first is for cutting a part of the cornea to create a flap, and the other is for cornea reshaping. The surgical process starts with treating the eye with anesthetic liquid. Once the eye is ready for treatment, short sparks of laser are applied to the eyes to cut a flap on the cornea. The flap is then folded back to expose the corneal tissue underneath. Once corneal tissue is exposed, this can then be carved with the laser to smooth out the irregularities. The laser is controlled by a computer to ensure precision.



WHY IS IT IMPORTANT?

The laser has been one of the best inventions in the 20th century. Nevertheless, even with continuous improvement in technology, lasers are still favored in the medical sector. The laser is mostly used in operational procedures that require high precision, and laser eye surgery is one of the best examples. By learning the procedure of LASIK, it can be better understood that lasers are apt for conducting operations that require high levels of precision. Furthermore, laser eye surgery is improving day by day, showing potential for solving most eye irregularities in the near future. In fact, new variations of laser eye surgery are emerging to lessen pain and decrease side effects. The trend of improvement in laser eye surgery is certainly worth noting.