

#### 4. Professional in-house engineering team:

- Certified directly by laser equipment providers in their overseas headquarters to carry out independent maintenance
- Daily calibration of equipment
- Regular surveillance programmes to ensure that machine accuracy far exceeds the requirement specified by equipment providers

### The Result Speaks for Itself

As a reference centre in the region, the Centre has, so far, trained 85 eye doctors in LASIK operations. Our doctors have also run training and instruction courses both locally and in international meetings.

From 1996 to June 2015, we have performed over 97,000 LASIK procedures in our Centre. Overall surgical success and patient satisfaction level are extremely high. Compared with that of any single machine available on FDA websites, our results are excellent. Over 95.2% of our patients' vision without spectacles are better than 20/20 six months after surgery. This result is only achievable by selecting the best combination of treatments for each patient.

### Patient Education

The Centre regularly conducts free seminars for members of the public who are interested in refractive surgery. If you are interested in joining the seminar or getting more information, please visit our website or call our Centre.



For enquiries and appointments, please contact us at:

#### Guy Hugh Chan Refractive Surgery Centre

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2 Village Road, Happy Valley, Hong Kong

Tel: 2835 8899  
Fax: 2892 7510  
Email: eye@hksh.com

#### Services Hours (By appointment only)

Monday to Friday: 9:00 am to 1:00 pm  
2:00 pm to 5:00 pm

Saturday: 9:00 am to 1:00 pm

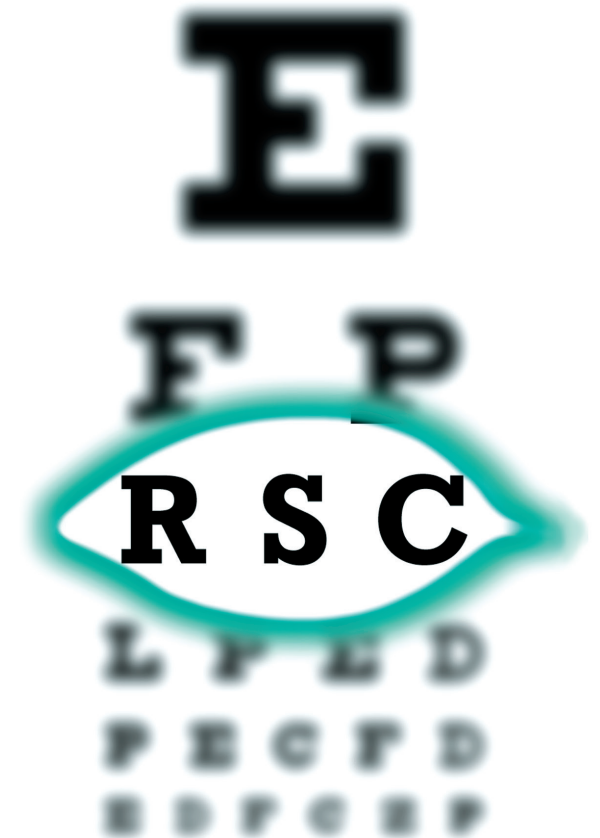
Closed on Sundays and Public Holidays

[www.hksh.com](http://www.hksh.com)

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眼科部  
Department of Ophthalmology

## Refractive Surgery For Clear Vision



養和醫院  
Hong Kong Sanatorium & Hospital

陳蔭樂視力矯正中心  
Guy Hugh Chan Refractive  
Surgery Centre

OPH-1051/HKSH-03-07/2015

## Hong Kong Sanatorium & Hospital

Clear vision is crucial to our daily lives. In order to see clearly, people with refractive errors depend on glasses or contact lenses. However, many people find glasses cosmetically unappealing, and contact lenses can be troublesome as well as risky. Hong Kong Sanatorium & Hospital is one of the first hospitals in Asia to provide refractive service for the correction of near-sightedness, far-sightedness, astigmatism and reading problems (presbyopia). During the past 19 years, we have treated over 49,000 patients and freed them from the burden of spectacles and contact lenses.

## Advances in Refractive Surgery

As technology advances, our Centre equipment is constantly upgraded to maintain our leading edge in the region's refractive surgery field. Hong Kong Sanatorium & Hospital was the first to introduce many of the newest and most advanced treatment options in the region. Our current and most updated technologies include:

### 0.68 mm Fine Spot Laser Ablation Technology

As the finest laser spot in the world, it enables high resolution ablation and achieves high precision with minimal tissue consumption.

### 6D Tracking Technology

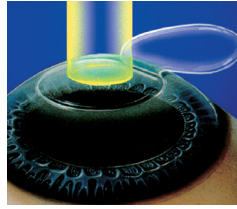
It enables tracking of eye movement in horizontal, vertical, forward, backward and rotational directions. This safety feature ensures that all laser spots are controlled to ablate the intended location. We are among the first in the world to have this technology.

### Aspheric Technology

The ablation profiles keep the natural shape of the cornea while correcting refractive error at the same time. This method can correct optical aberrations generated during procedures.

### Femtosecond Laser Technology

It provides completely bladeless laser surgery which further increases the safety of procedures. Over 99.8% of patients in our Centre opt for this method of treatment.



LASIK

### Iris Recognition Technology

It allows recognition of the iris so that tracking of eye movement can be tailored for each individual, enabling greater precision in the placement of laser spots.

### Online Pachymetry

Throughout procedures, the corneal thickness is constantly monitored. This special safety feature ensures that the cornea is not over-ablated.

### Personalised Aspheric Q Adjustment Technology

Similar to aspheric technology, it adjusts to the shape of the cornea for a custom fit of the patient's ocular characteristics.

### Presby LASIK Technology

It corrects presbyopia to minimise the patient's dependency on spectacles after treatment.

### Topography Guided Technology

It allows treatment based on the corneal contour map which is unique to each individual. More than 20,000 data points on the cornea are used to generate ablation patterns, which results in a personalised treatment.

### Wavefront Technology

It works by measuring how light is distorted as it passes into the eye and then is reflected back. This creates an optical map of the eye, highlighting individual imperfections which are corrected by personalised treatment.

### Wavefront Optimised Technology

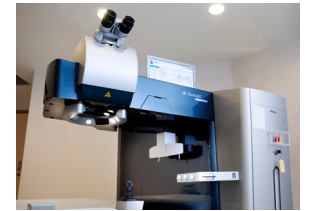
Similar to wavefront technology, it allows smaller laser beams and consumes less tissue. The amount of aberrations generated during the procedure is compensated with the use of this technology.

## Different Laser Systems for Unique Patient Needs Yield Optimal Results

At Hong Kong Sanatorium & Hospital, we are equipped with several laser systems. Doctors formulate the most suitable treatment plan for each patient based on ocular characteristics. Increased options heighten the chance of getting the best visual outcome. Surgical results of our Centre are better than those reported by the FDA for all individual laser systems currently available on the market.



iFS150 IntraLase



Wavelight EX500

## Extra Steps to Ensure Safety

As a leading refractive Centre, we take pride in achieving the best outcome with maximum safety. Numerous measures are employed to ensure delivery of the best care to patients.

1. In 2003, the Centre was among the first in Asia to be equipped with the IntraLase bladeless technique for flap creation. The risk of flap complications is further reduced
2. Regular post-operative monitoring is conducted to achieve desired surgical outcomes and provide statistical evidence for further improvement
3. All operating theatres are maintained at an exceptional standard:
  - Equipped with hospital-grade air filter
  - Air sampling is regularly done and cultures analysed
  - Our infection rate is 1:25,000, which surpasses the international standard by 25 times