



# LENSTAR MYOPIA

## Your Companion for Myopia Management

**Tradition and innovation** – Since 1858, visionary thinking and a fascination with technology have guided us to develop innovative products of outstanding reliability: anticipating trends to improve the quality of life.



02 | 03

## LENSTAR MYOPIA

# State-of-the-art Myopia Management and Patient Education.

Worldwide cases of myopia have increased dramatically in recent years. If left untreated myopia can develop into high myopia in adolescents and adults, carrying the risk of cataract, glaucoma, retinal detachment and myopic macular degeneration. Leading experts are seeing myopia evolve from an inconvenience to a crisis, that will equally impact all eye-care specialists - opticians, optometrists and pediatric ophthalmologists.

Introduce and expand your myopia management capabilities and join the fight against myopia with precise measurements for early detection of myopia onset and state-of-the-art myopia management with graphical visualisations for easy education and consultation of patients and parents with «Lenstar Myopia».

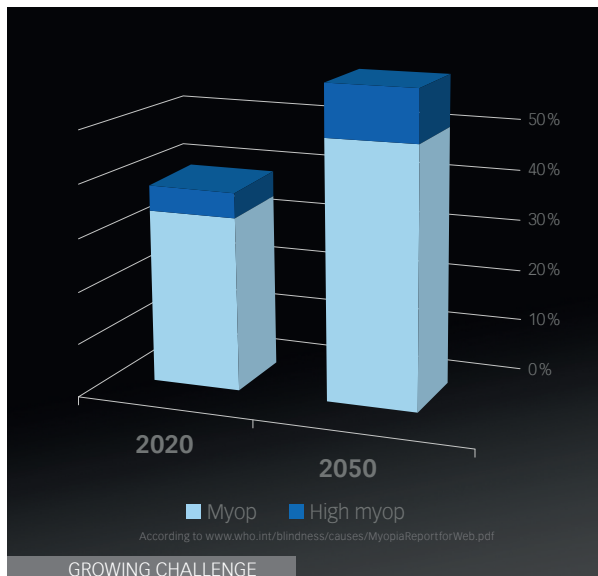


## Myopia Management from Leading Experts

In recent years, measurement of axial length has proven to be an excellent way to predict the progression of myopia. The Lenstar software «EyeSuite Myopia» uses the latest axial length growth curves from the myopia experts at the Erasmus University Medical Center in Rotterdam, the Netherlands, and also allows refraction error prediction visualisation based on user-definable control rates and environmental factors. EyeSuite Myopia has been developed in close cooperation with leading myopia experts Dr. Thomas Aller and Pascal Blaser of «myopia.care™» and is constantly being improved. Benefit from these different methods of visualising the predicted myopia progression and consult patients and parents on the needed steps to slow it down.

## Well Established Biometry - Lenstar 900

«Lenstar Myopia» consists of our well established Lenstar 900 optical biometer and the corresponding EyeSuite software «EyeSuite Myopia». The Automated Position System (APS) of the Lenstar allows for easy and fast measurement acquisition. Aside from precise axial length measurements, Lenstar 900 contributes to other indispensable myopia management factors such as keratometry, thus placing a wide range of data at your disposal for making accurate predictions of the myopia's onset and progression.



## GROWING CHALLENGE

## Are you ready for the challenge?

Myopia is a growing challenge not only for ophthalmologists, but for optometrists and opticians as well. With the current increase of myopia cases worldwide, myopia detection, education and management will be in high demand in the near future\*.

Expand your practice with state-of-the-art myopia management today and meet the demands of your patients tomorrow. Build trusting and long-lasting relationships with your patients and provide them with all relevant information about myopia, how myopia affects their child and how they can contribute to myopia management.

\* According to [www.who.int/blindness/causes/MyopiaReportforWeb.pdf](http://www.who.int/blindness/causes/MyopiaReportforWeb.pdf)

## EYESUITE MYOPIA

## Comprehensive myopia management

EyeSuite Myopia is a compact, highly-customisable, easy-to-use yet comprehensive myopia management software platform. It is designed to facilitate education and consultation of patients and parents about the prevalence, causes and consequences of myopia in children.

«EyeSuite Myopia» is based on the latest findings of myopia research into refractive progression trends, axial length growth and environmental factors. All progression trends can be adapted for regional peculiarities and supplemented with new control rates as they become available.

## REFRACTION

## Refraction - tried and tested

By determining refraction and its development in childhood, predictions can be made about the progression of myopia until adult age. EyeSuite Myopia overlays this data with the predicted myopia course using various treatment methods based on their appropriate control rates. EyeSuite Myopia also offers you the option of importing previously collected data from refraction measurement devices for use in the suite.

## BIOMETRY

## Axial length - the new reference

Measuring axial length has proven to be an excellent way to predict myopia progression because it works independently of accommodation and is less dependent on the patient's state of mind and willingness to cooperate. EyeSuite Myopia uses the latest axial length growth curves from myopia experts at the Erasmus University Medical Center, which can be updated by new growth curves as they become available.



#### ENVIROMENTAL FACTORS

## Balance environmental factors

Environmental factors such as myopic parents, the age of myopia onset, time spent reading or using electronic devices and time spent outdoors in daylight can be both, risk and protective factors in myopia progression. EyeSuite Myopia enables you to define enviromental factors and their impact based on recent research findings and to visualise their changes over the period of myopia mangement.

#### TREATMENT VISUALISATION

## Educate with treatment visualisations

EyeSuite Myopia's graphical visualisations are one of it's great strengths, allowing you to track the success of past and present treatments using graphical overlays of refractive or biometric data to determine the optimal treatment.

#### MYOPIA REPORT

## Powerful reports for informed patients

EyeSuite Myopia combines all collected data and visual curves in line with the well-known «myopia.care™» report, while beeing highly flexible and customisable. This report provides patients and their parents with easily understandable information, allowing them to actively participate in the myopia management process and choose the relevant treatments for their situation.

#### LENSTAR MYOPIA

## Advance your practice

Lenstar Myopia consists of our well-established, highly accurate optical biometer Lenstar 900 and the corresponding EyeSuite Myopia extension. In addition to precise axial length measurements, Lenstar 900 integrates other important myopia management factors, like keratometry, for better prediction.

Lenstar 900 and EyeSuite Myopia are a perfect match to allow you to cover a wide range of myopia management options - without additional hardware, software, or complicated installations.



## Connectivity is key Seamless Integration for optimal workflow

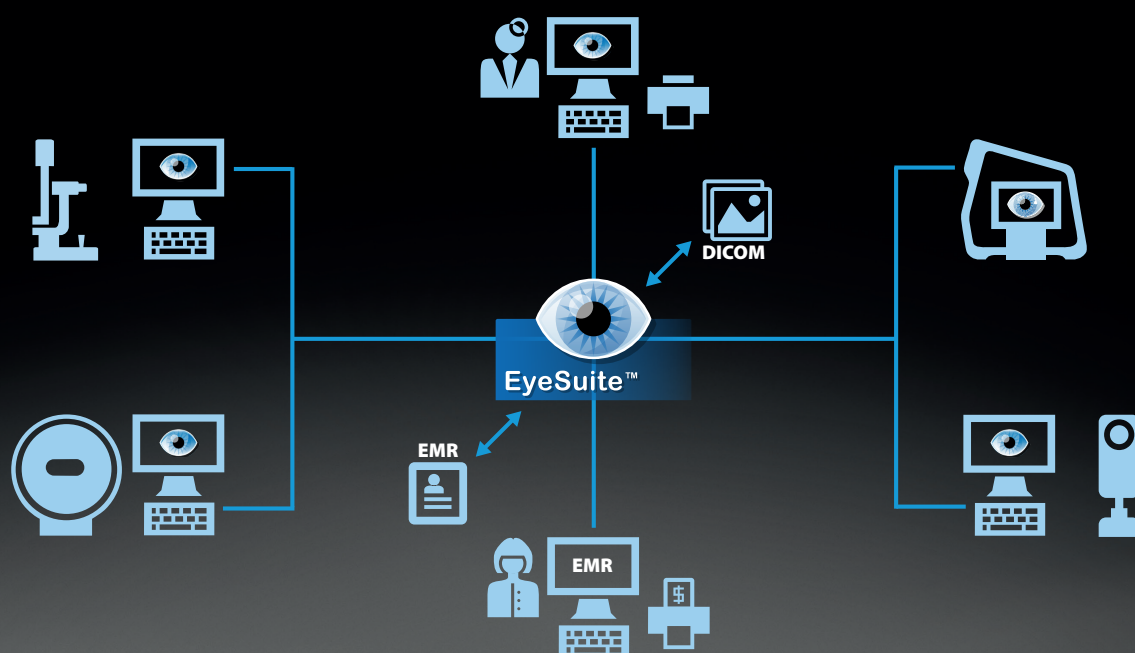
The EyeSuite software is designed for efficient patient flow in busy practices. Paired with Lenstar 900's one scan – get all measurements technology and the Automated Positioning System (APS) biometry acquisition is fast.

Sophisticated capture and analysis algorithms – as well as the possibility to review raw data of every parameter in detail to ensure correct measurement – result in full transparency and confidence that the biometry is accurate and precise.

With EyeSuite software, Lenstar 900 is fully networkable and allows full real-time access to all data in a practice.

Furthermore, the EyeSuite script language or standardised interfaces, such as GDT or DICOM, connect easily to almost any electronic medical record system (EMR).

EyeSuite's open data interface, combined with Lenstar 900's separate computer, allows autopopulation of the data fields of refractive data from refraction measurement devices or your EMR. This not only saves valuable staff time, it also eliminates the risk of transcription errors.



# Technical specifications

## Lenstar 900

### Measured variables and modes

#### Axial length <sup>AL</sup>

Measurement range	14–32 mm
Display resolution	0.01 mm

#### Vitreous chamber depth <sup>VCD</sup>

Measurement range	1–30 mm
Display resolution	0.01 mm

#### Keratometry <sup>K</sup>

Measurement range	
for radius	5–10.5 mm
Display resolution	0.01 mm
Measurement range	0–180°
for axis angle	
Display resolution	1°

#### Laser safety

Class 1 laser product

#### Electronic medical record system interfaces

- DICOM (SCU)
- EyeSuite Script Language
- GDT
- EyeSuite command line interface

The measurement ranges above are based on the device's standard settings for automatic measurement and analysis.

# Technical specifications

## EyeSuite Myopia

### Features

#### Refraction

Visualisation of individual refractive progression trends to support predictions about the outcomes of different treatment methods and compare them to the untreated course of myopia. Overlay the patient's refractive progression with predictions calculated from literature based control rates, which can be adapted and supplemented by new control rates as they become available.

#### Biometry

Visualisation of individual axial length progression trends to support myopia progression analyses by overlaying axial length growth curves of peer reviewed population-based studies.

#### Environmental Factors

Visualisation of customisable factors, such as myopic parents and time spent outside and their potential effects in myopia progression.

#### Myopia Report

Highly flexible and customisable reports of all available data and visual curves in line with the well-known «myopia.care™» report while providing a basis for in-depth education and counselling of patients and parents.

**HAAG-STREIT AG**

Gartenstadtstrasse 10  
3098 Koeniz  
Switzerland  
Phone +41 31 978 01 11  
Fax +41 31 978 02 82  
[info@haag-streit.com](mailto:info@haag-streit.com)  
[www.haag-streit.com](http://www.haag-streit.com)