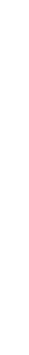
OCULUS Myopia Master®

Refraction, Axial Length and Keratometry







Myopia management in 5 Steps

Easy and professional



MYOPIA MASTER

Myopia management: All important parameters in one device

Refraction, axial length, and keratometry are the main measures required for professional myopia management, but only in combination do they allow for individualized treatment and counselling.







Fast and contactless measurement

The Myopia Master® performs fast measurements of the most important parameters relating to myopia development. The measurement process only takes two minutes, is contactless and completely painless.









Reliable and reproducible results

The standard deviation of repeated measurements of axial length is about 0.02 mm equivalent to a refractive error change of 0.05 D.



Exclusive myopia management software

- The software guides you through the entire myopia procedure.
- It takes into account specific risk factors.
- The software generates the Myopia Report for patient education at home.

MEASUREMENT CONTRACTOR



Refraction

A refraction measurement is carried out in a matter of seconds and determines the eye's refractive error. The sphero-cylindrical combination forms both the basis for subjective refraction and is also a fundamental parameter for myopia management.



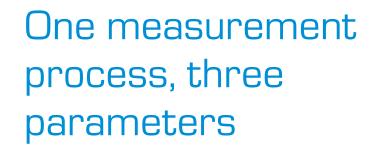
Axial length

The axial length measurement is independent of the accommodation state of the eye. The measurement is highly accurate. An increase in axial length is a reliable indication of myopia progression. Axial length measurement represents the gold standard for recognizing eye length growth at an early stage.



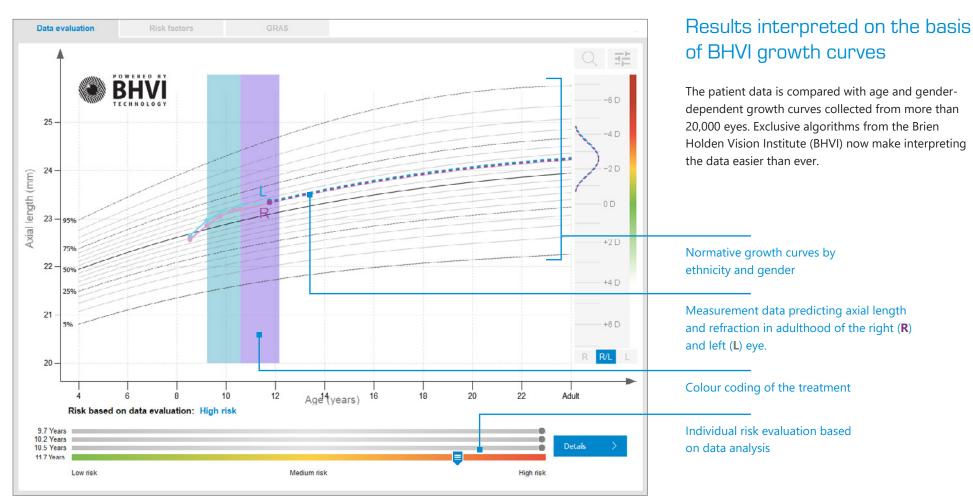
Keratometry

The central corneal radii represent the refraction of the cornea. Combining this with the axial length and the total refraction of the eye enables an even better understanding of the human visual system.



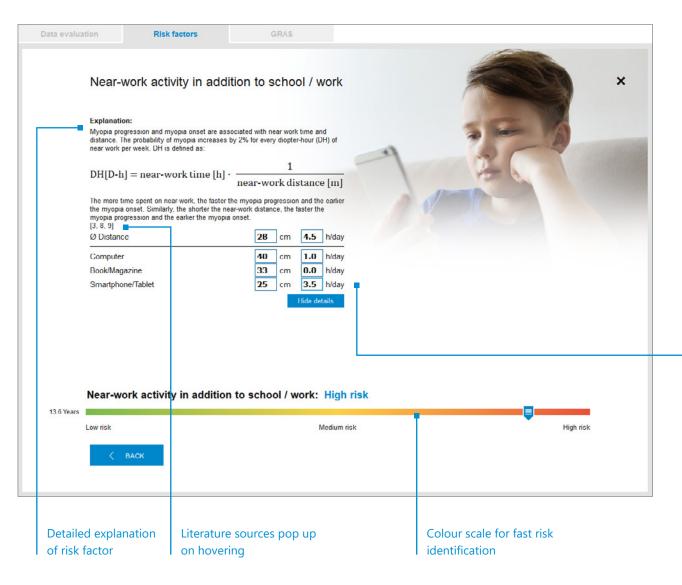


DATA ANALYSIS



Binocular axial length measurements, plotted in normative growth curves, generated from BHVI

3 RISK IDENTIFICATION



Environmental conditions and patient education

The Myopia Master® software provides a default questionnaire addressing the most important risk factors. Further risk factors can be added and customized using the Ouestion Kit.

(i) All information is based on peer-reviewed papers.

The Myopia Master® software assists the eye specialist in educating children and their parents.







Prolonged near work predisposes to myopia.





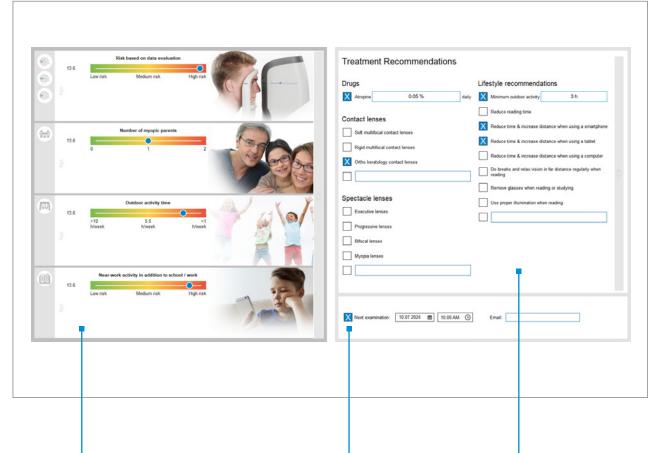


Myopic parents

Near work

Outdoor activity

MYOPIA REPORT



Overview of the results analysis

The digital Myopia Report can be sent by email or printed out together with the next examination appointment. Individual treatment recommendations on medication, contact lenses, spectacle lenses or lifestyle changes.

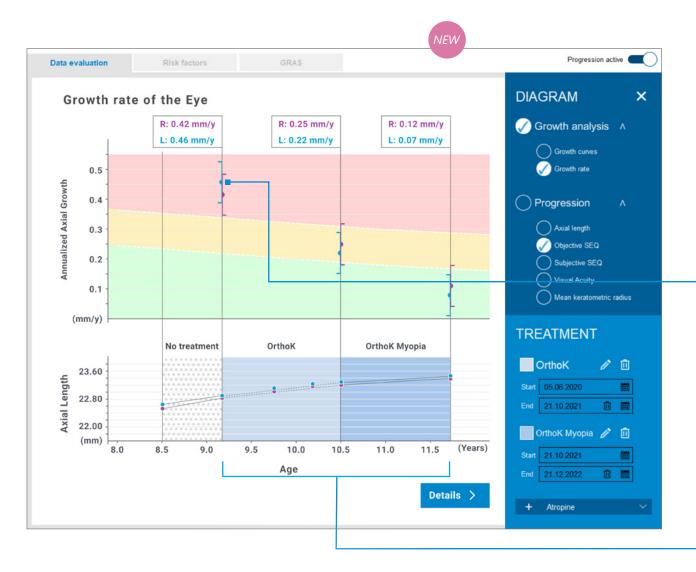
Evaluation-based treatment recommendations

Based on an evaluation of the questionnaire the eye specialist can select the appropriate treatment with a simple click or enter a personalized treatment. The Myopia Report for parents and children can then be sent to the patient by email or printed out together with the next examination appointment.

All of the results are clearly listed in the Myopia Report, which helps readers to understand their individual outcome.



5 GROWTH ANALYSIS

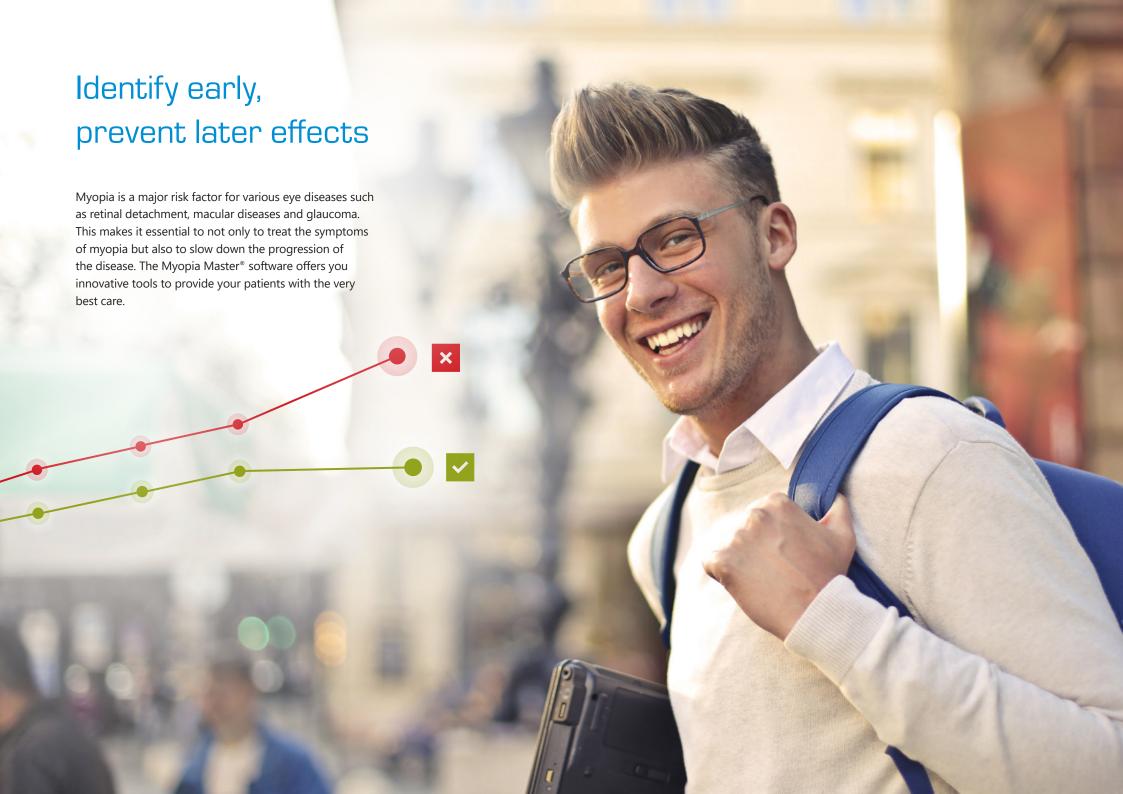


Keeping an eye on eye growth

Regular eye growth checks are an essential aspect of successful myopia management. This illustration clearly shows the changes in eye growth as well as treatment successes.

The annual growth rate is determined from the measurements within the displayed interval and shown in the upper graph.

Treatments with Ortho-K and Ortho-K Myopia have demonstrated good and very good treatment results.



GRAS MODULE ©±



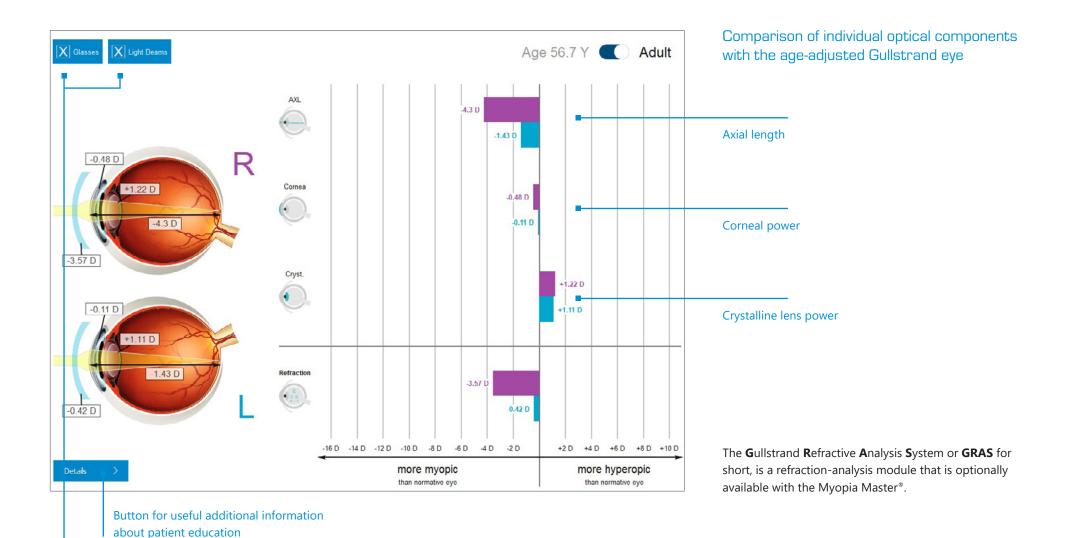
Anything but 0.0. A new understanding of vision

Never has the interpretation of measurement results been as easy and reliable as with the new Myopia Master®. All individually measured refractive components of the eye are automatically matched with the Gullstrand standard eye model. This way you can always take your bearings by the gold standard. Not only does this save you time, it also provides an ideal basis for explaining the results to your patients.

Best of all, OCULUS has adapted the Gullstrand eye for children, providing even better care for this important target group.

Comparison with the Gullstrand eye

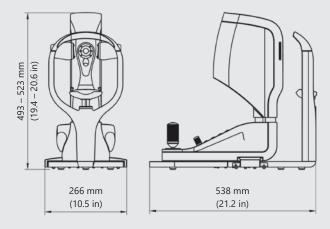
Simulation of the optical beam path with and without glasses



OCULUS Myopia Master® Technical Data

14 - 40 mm
0; 10.5; 12; 13.75; 15; 16.5 mm
-20 - +22 D (CVD = 12 mm)
10 D (CDV = 12 mm)
0° to 180° (in 1° increments)
2.5 mm
hot air balloon over a landscape
6 - 10 mm
266 x 538 x 493 – 523 mm (10.5 x 21.2 x 19.4 - 20.6 in)
approx. 12 kg (26.5 lbs)
80 - 264 V AC
47 - 63 Hz
USB
Intel® Core™ i5, 500 GB HDD, 8 GB RAM, Windows® 10, Intel® HD Graphics







The availability of products and features may vary by country.

OCULUS reserves the right to change product specifications and design. All information is valid at the time of printing (12/23).

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