MYAH*
Build, Manage, and Grow Your
Myopia & Dry Eye Practice
Myopia greatly impacts the quality of life and personal development of children\(^1\).

It has never been a better time to join the battle against the global myopia epidemic. The MYAH is the perfect instrument for eyecare professionals interested in building, managing, and growing a myopia service.

**Overview of MYAH**

- **Corneal Topography** including keratoconus screening and pupillometry
- **Axial Length measurement** by Optical Low Coherence Interferometry
- **Progression reports** for analyzing treatment efficacy
- **Comprehensive suite of Dry Eye assessment tools**
- **Patient-friendly with rapid capture**
- **Compact, space-saving, easy to operate**

**Did you know that 50% of the world’s population\(^2\) may be myopic by 2050?**

European regions are not an exception.

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Europe</td>
<td>20.5%</td>
<td>27.1%</td>
<td>34.6%</td>
<td>41.8%</td>
<td>48.9%</td>
<td>54.1%</td>
</tr>
<tr>
<td>Eastern Europe</td>
<td>18.0%</td>
<td>25.0%</td>
<td>32.2%</td>
<td>38.9%</td>
<td>45.9%</td>
<td>50.4%</td>
</tr>
<tr>
<td>Western Europe</td>
<td>21.9%</td>
<td>28.5%</td>
<td>36.7%</td>
<td>44.5%</td>
<td>51.0%</td>
<td>56.2%</td>
</tr>
<tr>
<td>Global</td>
<td>22.9%</td>
<td>28.3%</td>
<td>33.9%</td>
<td>39.9%</td>
<td>45.2%</td>
<td>49.8%</td>
</tr>
</tbody>
</table>

Building a myopia management practice requires you to educate your patients and their families about the implications of myopia progression, to manage the condition and to grow your service offering.

**BUILD YOUR MYOPIA MANAGEMENT SERVICE:**

The MYAH provides the initial baseline to monitor risk, allowing you to start the conversation early with parents.

**MANAGE: TO TREAT OR NOT TO TREAT?**

The MYAH provides essential information to assess the risk of myopia and for close monitoring of the effectiveness of any myopia interventions.

**GROW YOUR MYOPIA MANAGEMENT SERVICE:**

Offering axial length screening tests may complement your refraction tests.

The MYAH offers all the technologies required to support myopia management: optical biometry, corneal topography and pupillometry - it is a one-time investment. In addition, the MYAH is an all-in-one solution that offers an evolving platform which provides the tools to add or grow Dry Eye Management.
Monitor the progression of myopia and the effectiveness of intervention.

Percentile growth charts for axial length allow eye care practitioners to monitor eye growth, facilitating decision-making in the management of myopia. These charts, available for boys (left) and girls (right), are derived from a large population-based European study. Practitioners can quickly identify whether axial length is moving up or down the percentiles at each visit, with the risk of myopia in adulthood clearly indicated. Growth charts may also be helpful in communicating myopia risk to parents.

The Rx and Axial Length charts help you track progression and monitor the effectiveness of intervention. The MYAH provides this data so that you can compare changes over time. The MYAH also uses the same proven technology as the Topcon Aladdin biometer, producing reproducible axial length results.

Dynamic Pupillometry
Provides clear information on the reaction time and size of the pupil, which may be useful to monitor low dose atropine compliance or to titrate the dose of atropine. The user can examine pupil centration and diameter over a range of light levels, which is useful for Ortho-K and multifocal lens fitting, and is also informative for pre and post-refractive surgery.

Contact Lens Fitting
The MYAH provides support for contact lens fitting, reducing the number of lenses that need to be trialed on the eye:
- Includes a database of conventional RGP and Ortho-K lenses.
- Export topography data to 3rd party calculators.
- Fluorescein simulation with ability to save and review data.

* Percentile growth charts not available on the MYAH at time of publication of this brochure.
Dry Eye Assessment Tools
These tools offer non-invasive Tear Break-up Time (NIBUT), Meibomian gland imaging with the area of loss analysis, tear meniscus height analysis, blink analysis, real fluorescein imaging and video acquisition, and video review of anterior corneal aberrations between blinks.

Corneal Topography
The MYAH offers another range of tools to analyze the anterior cornea, including topographic maps, 3D maps, comparison maps, height maps, Zernike analysis and keratoconus screening.

Corneal Aberration Summary
The Zernike expansion coefficient is used to determine which component(s) dominate the aberration structure of the cornea and to what degree. The anterior corneal Zernike summary consists of 36 polynomials up to the 7th order and provides a clear view of the optical irregularities that can impact the quality of vision.

MYAH makes your practice dynamic and smart.
This versatile instrument, with its intuitive and user-friendly interface, integrates easily into your workflow and offers different options for exporting the results.

4 EASY STEPS
Select patient* and acquisition mode.
Align patient and adjust automated chinrest.
Follow alignment guides to focus and trigger to start.
Review results and print/export reports to network or USB.

* Create new patient, select existing patient or select patient from DICOM (search/worklist).

Small footprint. Fits anywhere in your practice.
## MYAH Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keratometric cone</td>
<td>24 rings equally distributed on a 43 D sphere</td>
</tr>
<tr>
<td>Analyzed points</td>
<td>Over 100,000</td>
</tr>
<tr>
<td>Measured points</td>
<td>Over 6,000</td>
</tr>
<tr>
<td>Corneal coverage</td>
<td>Up to 9.8 mm on a sphere of radius 8.00 mm (42.2 diopters with n=1.3375)</td>
</tr>
<tr>
<td>Diopter power range</td>
<td>28.00 – 6750 D</td>
</tr>
<tr>
<td>Display Resolution</td>
<td>0.01 D, 0.01 mm</td>
</tr>
<tr>
<td>Axial Biometry</td>
<td>Low-coherence interferometry on optical fiber (SLED @ 820 nm)</td>
</tr>
<tr>
<td>Capture system</td>
<td>Guided-focus</td>
</tr>
<tr>
<td>Monitor</td>
<td>LCD 10.1 inch capacitive touch screen</td>
</tr>
<tr>
<td>Database</td>
<td>Internal</td>
</tr>
<tr>
<td>Pupillometry</td>
<td>Dynamic, Photopic, Messopic, Scotopic</td>
</tr>
<tr>
<td>Fluoroscein</td>
<td>Image, Video</td>
</tr>
<tr>
<td>Reports</td>
<td>Corneal map, Comparison map, Contact lens, Height map, Zernike analysis, Pupillometry, Meibomian glands, Tear Film</td>
</tr>
<tr>
<td>Working environment</td>
<td>10 °C – 40 °C, Relative humidity 8 – 75% (no-condensing), Atmospheric pressure 800 – 1060 hPa</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 100 – 240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>100 VA</td>
</tr>
<tr>
<td>Dimensions</td>
<td>320 mm (W) x 490 mm (H) x 470 mm (L), 18 Kg</td>
</tr>
<tr>
<td>Printing options</td>
<td>USB printer, Network printer, PDF on network shared folder, PDF on USB</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 10 64-bit</td>
</tr>
<tr>
<td>RAM</td>
<td>4 GB</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>500 GB</td>
</tr>
<tr>
<td>External connections</td>
<td>LAN integrated, 2x USB</td>
</tr>
</tbody>
</table>

### Important

1. This product is not available in all geographic areas. Please check with your distributor for availability.

2. Objective: To determine the relationship between axial length growth and the risk of developing myopia in European children.


5. Product available from https://doi.org/10.1111/aos.13603

### Information on Measurements

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Measuring Range</th>
<th>Display Resolution</th>
<th>In Vivo Repeatability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keratometry</td>
<td>Radius of curvature  5.00 – 12.00 mm</td>
<td>0.01 mm</td>
<td>±0.02 mm</td>
</tr>
<tr>
<td></td>
<td>Curve Radius in Diopter (D) = n/1.3375</td>
<td>28.00 – 6750 D</td>
<td>0.01 D</td>
</tr>
<tr>
<td>Axial Length</td>
<td>15.00 – 36.00 mm</td>
<td>0.01 mm</td>
<td>±0.03 mm</td>
</tr>
<tr>
<td>Pupil dimension</td>
<td>0.50 – 10.00 mm</td>
<td>0.01 mm</td>
<td>N/A</td>
</tr>
<tr>
<td>Limbus (White-To-White)</td>
<td>8.00 – 14.00 mm</td>
<td>0.01 mm</td>
<td>±0.05 mm</td>
</tr>
<tr>
<td>IBI Index (Interblink Interval)</td>
<td>0.2 – 20.0 s</td>
<td>0.1 s</td>
<td>N/A</td>
</tr>
<tr>
<td>Non-invasive Break-Up Time (TBT)</td>
<td>0.5 – 30.0 s</td>
<td>0.1 s</td>
<td>N/A</td>
</tr>
<tr>
<td>Meibomian Glands area of loss</td>
<td>O – 100%</td>
<td>1%</td>
<td>N/A</td>
</tr>
<tr>
<td>Tear Meniscus Height</td>
<td>0.01 – 1.00 mm</td>
<td>0.01 mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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