

# MYAH<sup>\*</sup>

Build, Manage and Grow Your  
Myopia & Dry Eye Practice



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[topconmyah.com](https://topconmyah.com)


**TOPCON** Healthcare

SEEING EYE HEALTH DIFFERENTLY


# Myopia greatly impacts the quality of life and personal development of children¹.

It has never been a better time to join the battle against the global myopia epidemic. 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 population² may be myopic by 2050?

European regions are not an exception.

| Region         | 2000  | 2010  | 2020  | 2030  | 2040  | 2050  |
|----------------|-------|-------|-------|-------|-------|-------|
| Central Europe | 20.5% | 27.1% | 34.6% | 41.8% | 48.9% | 54.1% |
| Eastern Europe | 18.0% | 25.0% | 32.2% | 38.9% | 45.9% | 50.4% |
| Western Europe | 21.9% | 28.5% | 36.7% | 44.5% | 51.0% | 56.2% |
| Global         | 22.9% | 28.3% | 33.9% | 39.9% | 45.2% | 49.8% |

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:

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

### MANAGE: TO TREAT OR NOT TO TREAT?

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.

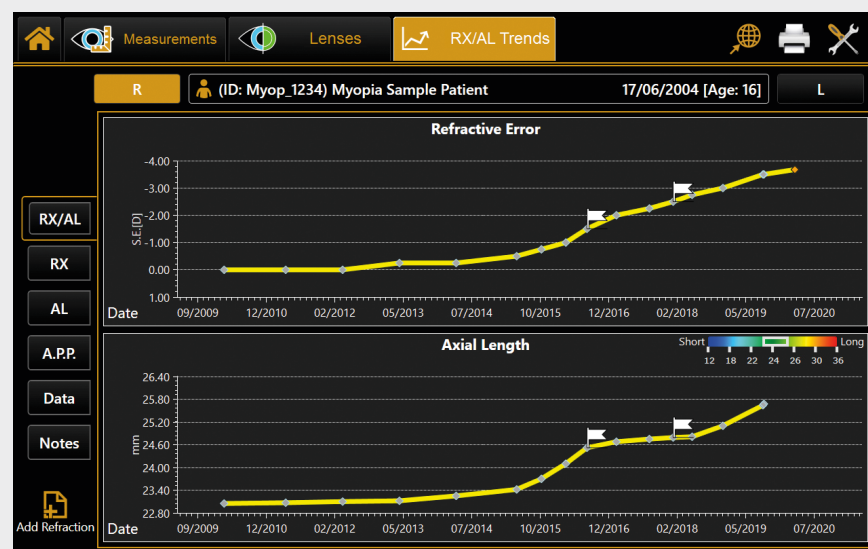
MYAH offers all the technologies required to support myopia management: optical biometry, corneal topography and pupillometry — it is a one-time investment. In addition, MYAH is an all-in-one device that offers an evolving platform which provides the tools to add or grow Dry Eye Management.



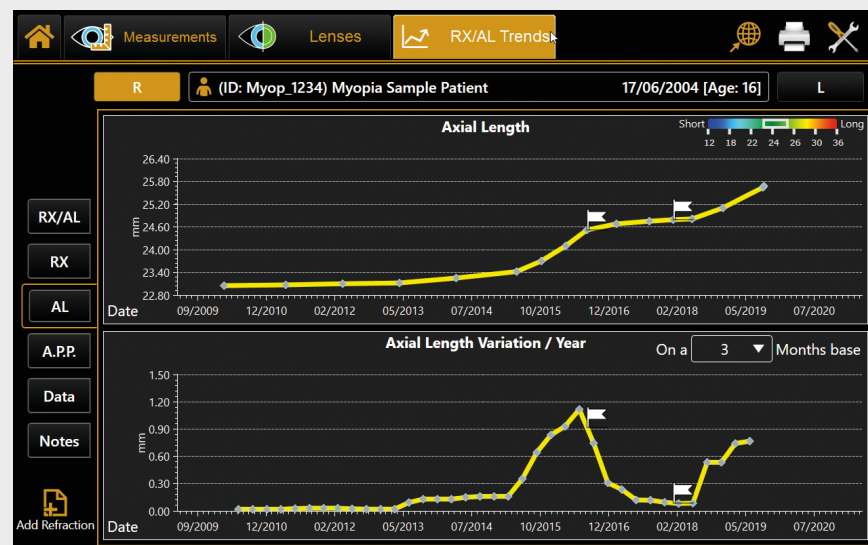
## Monitor the progression of myopia and the effectiveness of intervention.

The Rx and Axial Length charts help you track progression and monitor the effectiveness of intervention. MYAH provides this data so that you can compare changes over time. It also uses the same proven technology as the Topcon Aladdin biometer, producing reproducible axial length results<sup>3</sup>.

### Progression of Refractive Error And Axial Length Over Time



### Progression And Variation Of Axial Length



## Additional Features.

### Dynamic Pupillometry

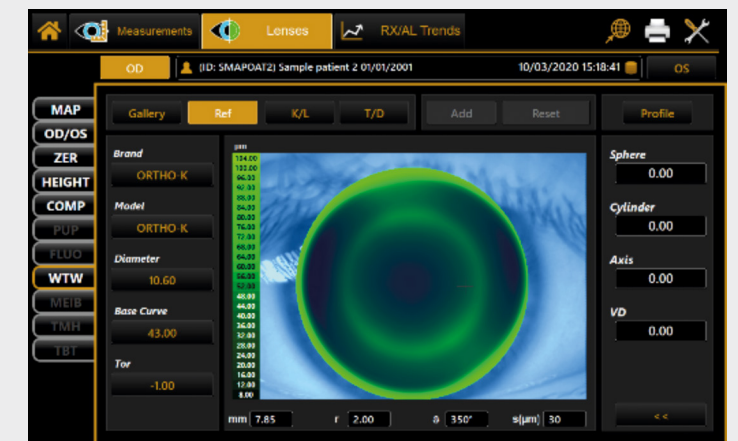
Provides clear information on the reaction time and size of the pupil, which may be useful to monitor low dose atropine compliance or to titrate the dose of atropine. The user can examine pupil centration and diameter over a range of light levels, which is useful for Ortho-K and multifocal lens fitting,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



### Contact Lens Fitting

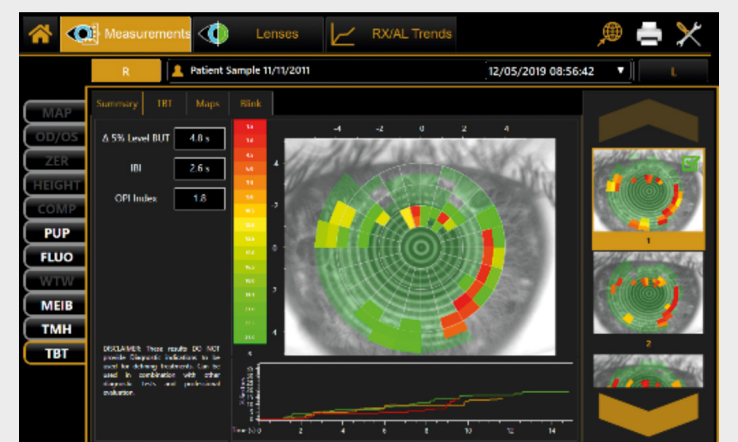
MYAH provides support for contact lens fitting, reducing the number of lenses that need to be trialed on the eye:

- Includes a database of conventional RGP and Ortho-K lenses.
- Export topography data to 3<sup>rd</sup> party calculators.
- Fluorescein simulation with ability to save and review data.



### 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

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.



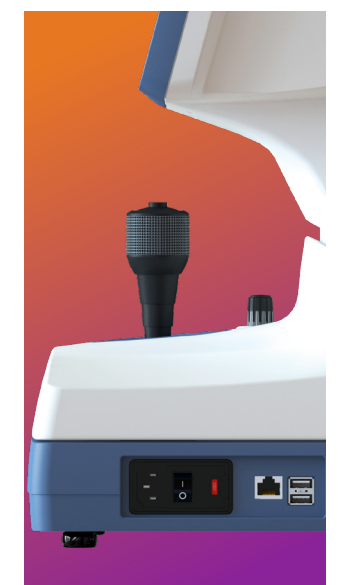
Review results and print/export reports to network or USB.

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

Small footprint. Fits anywhere in your practice.

## Topcon MYAH

Monitoring progression and intervention of myopia, along with dry eye assessment and contact lens fitting tools.



## MYAH SPECIFICATION

| FEATURE                     | SPECIFICATION  |
|-----------------------------|--|
| <b>Keratoscopic cone</b>    | 24 rings equally distributed on a 43 D sphere  |
| <b>Analyzed points</b>      | Over 100.000   |
| <b>Measured points</b>      | Over 6.000   |
| <b>Corneal coverage</b>     | Up to 9.8 mm on a sphere of radius 8,00 mm (42.2 diopters with n=1,3375)   |
| <b>Diopter power range</b>  | 28.00 – 67,50 D  |
| <b>Display Resolution</b>   | 0.01 D, 0,01mm   |
| <b>Axial Biometry</b>       | Low-coherence interferometry on optical fiber (SLED @ 820 nm)  |
| <b>Capture system</b>       | Guided-focus   |
| <b>Monitor</b>              | LCD 10,1 inch capacitive touch screen  |
| <b>Database</b>             | Internal   |
| <b>Pupillometry</b>         | Dynamic, Photopic, Mesopic, Scotopic   |
| <b>Fluorescein</b>          | Image, Video   |
| <b>Reports</b>              | Corneal map, Comparison map, Contact lens, Height map, Zernike analysis, Pupillometry, Meibomian glands, Tear Film Break-up Time, Tear Meniscus Height, Rx/AL Trend analysis, Fluorescein report |
| <b>Working environment</b>  | 10 °C – 40 °C, Relative humidity 8 – 75% (no condensing), Atmospheric pressure 800 – 1060 hPa  |
| <b>Power supply</b>         | AC 100 – 240 V 50/60 Hz  |
| <b>Power consumption</b>    | 100 VA   |
| <b>Dimensions</b>           | 320 mm (W) x 490 mm (H) x 470 mm (L), 18 Kg  |
| <b>Printing options</b>     | USB printer, Network printer, PDF on network shared folder, PDF on USB<br>PDF or Image on network folder or on USB   |
| <b>Operating System</b>     | Windows 10 64-bit  |
| <b>RAM</b>                  | 4 GB   |
| <b>Hard Disk</b>            | 500 GB   |
| <b>External connections</b> | LAN integrated, 2x USB   |

## INFORMATION ON MEASUREMENTS

| MEASUREMENT                             | MEASURING RANGE                           | DISPLAY RESOLUTION | IN VIVO REPEATABILITY |
|---|---|--------------------|-----------------------|
| <b>Keratometry</b>                      | Radius of curvature                       | 5,00 – 12,00 mm    | ±0,02 mm              |
|   | Curve Radius in Diopter (D)<br>(n=1,3375) | 28.00 – 67.50 D    | ±0,12 D               |
| <b>Axial Length</b>                     | 15,00 – 36,00 mm                          | 0,01 mm            | ±0,03 mm              |
| <b>Pupil dimension</b>                  | 0,50 – 10,00 mm                           | 0,01 mm            | N/A                   |
| <b>Limbus (White-To-White)</b>          | 8,00 – 14,00 mm                           | 0,01 mm            | ±0,05 mm              |
| <b>IBI Index (Interblink Interval)</b>  | 0,2 – 20,0 s                              | 0,1 s              | N/A                   |
| <b>Non-Invasive Break-Up Time (TBT)</b> | 0,5 – 30,0 s                              | 0,1 s              | N/A                   |
| <b>Meibomian Glands area of loss</b>    | 0 – 100%                                  | 1%                 | N/A                   |
| <b>Tear Meniscus Height</b>             | 0,10 – 1,00 mm                            | 0,01 mm            | N/A                   |

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

- Report of the Joint World Health Organization-Brien Holden Vision Institute. Global Scientific Meeting on Myopia. The Impact of myopia and high myopia. University of New South Wales, Sydney, Australia. 16-18 March 2015.
- Holden, BA, Fricke, TR, Wilson, DA et al. Global prevalence of myopia and high myopia and temporal trends from 2000 through 2050. Ophthalmology. 2016; 123:1036–42. Available from: doi: 10.1016/j.ophtha.2016.01.006
- Mandal, P, Berrow, EJ, Naroo SA, et al. Validity and repeatability of the Aladdin ocular biometer. BJO. December 01, 2015. Available from <http://dx.doi.org/10.1136/bjophthalmol-2013-304002>

### IMPORTANT

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Medical device MDD Class IIa. Manufacturer: VISIA imaging S.r.l.



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