MYAH

Optical Biometry + Corneal Topography

TOPCON Healthcare

SEEING EYE HEALTH DIFFERENTLY

BUILD YOUR MYOPIA PRACTICE

MYAH

Optical Biometry + Corneal Topography

One easy-to-use instrument gives you a wealth of information to help you build your myopia management and specialty contact lens practice.

- Axial length metrics and trend reports aid in assessment of myopic risk factors
- Corneal curvature
- Contact lens fitting tools

*MYAH is intended for measuring the axial length of the eye in a population age 5 and above and is intended for use under the care on an eye care professional. MYAH is not intended to be used in patients with cataracts.

MYAH offers an efficient, affordable and repeatable way to baseline axial length and monitor change over time.

This versatile instrument also includes corneal topography, pupillometry, anterior cornea wavefront analysis and contact lens fitting software making it a comprehensive device for monitoring axial length, assessing visual quality and fitting specialty lenses.

Overview

Axial length measurements by Optical Low Coherence Interferometry

Axial length, refractive error and corneal power trend reports

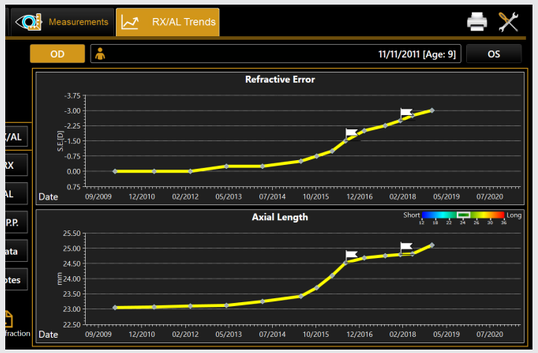
Corneal topography with aberration maps and white-to-white measurement

Static and dynamic pupillometry

Contact lens fitting Software

Axial Length Measurements

Quickly capture baseline axial length measurements in pediatric patients to assess for myopic risk factors and monitor change in axial length, refractive error and corneal power over time. A trend line graph displays the speed at which axial length is changing.



Corneal Topography

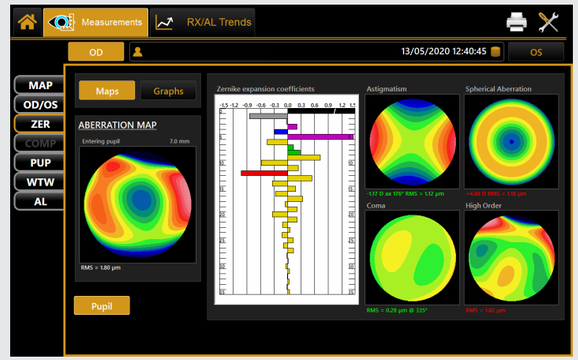
Enables examination and analysis of corneal curvature and visit-to-visit comparison, which provides valuable information to assess keratoconus probability and support specialty contact lens fitting. White-to-white measurements are automatically calculated during topography to support the selection of contact lens diameter.

Dynamic Pupillometry

Facilitates quick assessment of the size and light reflexes of the pupil, which may be useful to monitor low dose atropine compliance or to adjust 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 surgical evaluations.

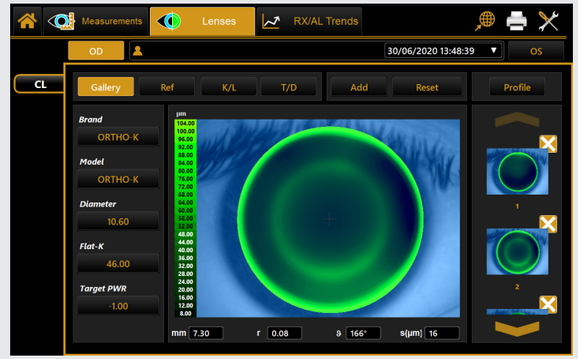
Corneal Aberration Summary

Displays maps of higher order aberrations of the eye over different pupil sizes and simulates the effect on the patient's visual quality, helping the ECP optimize optical recommendations or contact lens parameters.

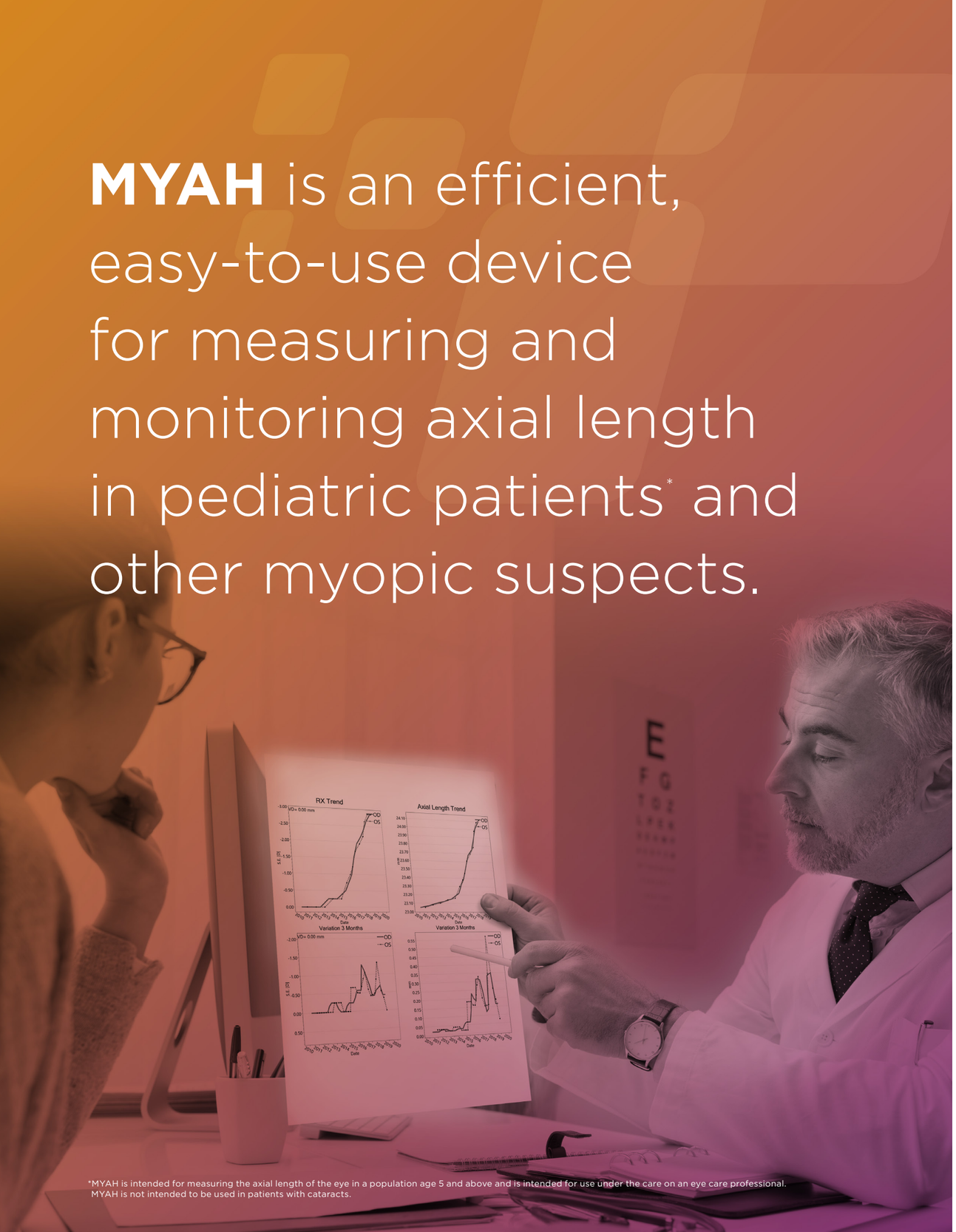


Contact Lens Fitting

Reduces the number of trial lenses with a database of conventional RGP and Ortho-K lenses and fluorescein simulation. Export topographical data to third party calculators to streamline lens selection.



MYAH is an efficient, easy-to-use device for measuring and monitoring axial length in pediatric patients* and other myopic suspects.



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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

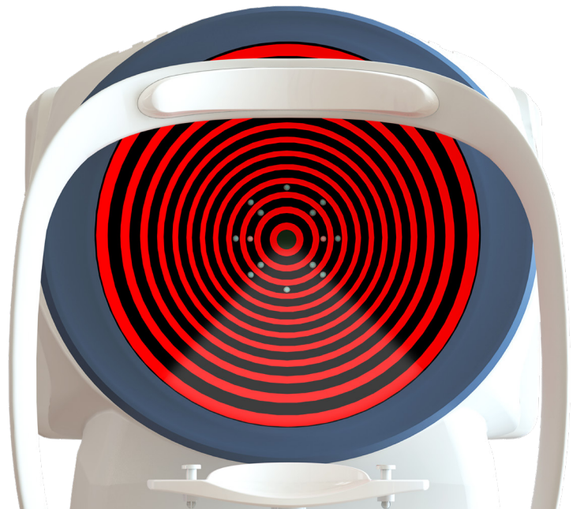
Select patient* and acquisition mode.

Align patient and adjust automated chinrest.

Follow alignment guides to focus and trigger to start acquisition.

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

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



MYAH SPECIFICATIONS

FEATURE	SPECIFICATION
Keratoscopic cone	24 rings equally distributed on a 43 D sphere
Analyzed points	Over 100.000
Measured points	Over 6.000
Corneal coverage	Up to 9.8 mm on a sphere of radius 8,00 mm (42.2 diopters with n=1,3375)
Diopter power range	28.00 – 67.50 D
Display Resolution	0.01 D, 0,01mm
Axial Biometry	Low-coherence interferometry on optical fiber (SLED @ 820 nm)
Capture system	Guided-focus
Monitor	LCD 10,1 inch capacitive touch screen
Database	Internal
Pupillometry	Dynamic, Photopic, Mesopic, Scotopic
Reports	Corneal map, Comparison map, Contact lens, Height map, Zernike analysis, Pupillometry, Rx/AL Trend analysis
Working environment	10 °C – 40 °C, Relative humidity 8 – 75% (no condensing), Atmospheric pressure 800 – 1060 hPa
Power supply	AC 100 – 240 V 50/60 Hz
Power consumption	100 VA
Dimensions	320 mm (W) x 490 mm (H) x 470 mm (L), 18 Kg
Printing options	USB printer, Network printer, PDF on network shared folder, PDF on USB PDF or Image on network folder or on USB
Operating System	Windows 10 64-bit
RAM	4 GB
Hard Disk	500 GB
External connections	LAN integrated, 2x USB

INFORMATION ON MEASUREMENTS

MEASUREMENT		MEASURING RANGE	DISPLAY RESOLUTION	IN VIVO REPEATABILITY
Keratometry	Radius of curvature	5,00 – 12,00 mm	0.01 mm	-
	Curve Radius in Diopter (D) (n=1,3375)	28.00 – 67.50 D	0.01 D	-
Axial Length		15,00 – 36,00 mm	0,01 mm	±0,03 mm
Pupil dimension		0,50 – 10,00 mm	0,01 mm	-
Limbus (White-To-White)		8,00 – 14,00 mm	0,01 mm	-

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