MYAH PRO

Biometry, objective refraction, corneal analysis,
aberrometry, and ocular surface evaluation.

All-in-one automated platform that integrates ocular measurements into clinical insights while streamlining workflows.



TOPCON Healthcare

High quality with functional design



MYAH PRO

is an integrated diagnostic platform designed to support eye care professionals across a range of clinical pathways, including myopia management, Orthokeratology (Ortho-K), ocular surface assessment, premium intraocular lens (IOL) planning and pre-surgical assessment. By bringing multiple diagnostic capabilities together in one system, MYAH PRO helps streamline workflows, support consistent measurements and enable a comprehensive view of patient data over time.

Eye Care is Evolving

The increasing need to manage myopia in children, support growing demand for refractive procedures among adults and address cataract care in older populations is placing new demands on eye care providers. Practices are expected to deliver earlier intervention, consistent follow-up care and high standards of clinical precision, while maintaining efficiency in busy clinical environments.

Today's practices require more than individual measurements. They need versatile systems that support structured workflows, longitudinal data tracking, and meaningful patient communication.

(Sources: Holden et al., Ophthalmology 2016; British Journal of Ophthalmology 2026; American Journal of Ophthalmology 2025; BMJ Open Ophthalmology 2022; Frontiers in Medicine 2025)

Designed for Modern Eye Care Practices

Support and Grow Your Myopia Management Services

MYAH PRO helps practices establish and expand their myopia management services through objective monitoring of axial length and refractive changes over time. Longitudinal tracking supports consistent follow-up care, while integrated Myopia Management Growth Curves provide age-based reference data to support progression assessment and patient communication.

Enable Efficiency and Consistency Across Teams and Locations

Designed to simplify the examination process, MYAH PRO combines a streamlined user interface with automated acquisition and support for delegated testing. Structured data outputs support standardised measurements and help promote consistency and practice integration.

Enhance Pre-Surgical Assessment

MYAH PRO supports pre-surgical assessment by providing a consolidated view of refractive, ocular surface, biometric, and optical measurements to support clinical evaluation within cataract and refractive workflows.

One Platform. Multiple Clinical Pathways.

MYAH PRO integrates multiple diagnostic capabilities into a single platform, reducing the need for separate devices while simplifying clinical workflows. It is designed to combine functionality, automated acquisition and an intuitive interface to support efficient operation and staff delegation.

Working Smarter in Daily Practice

By combining multiple examinations into a single streamlined workflow, MYAH PRO helps reduce patient movement between devices and minimises manual data transfer, supporting greater efficiency across the practice.

Automated alignment, focus and acquisition are designed to support consistent measurements across users, limit operator dependency and enhance workflow efficiency in routine clinical settings.

Turn Delegation into a Competitive Advantage

MYAH PRO simplifies complex tasks and standardises outputs, empowering practices to delegate with confidence and maximise the value of every team member.

MYAH PRO

Connected Clinical Insight

MYAH PRO brings together axial length, objective refraction, corneal analysis, wavefront-based measurements, and ocular surface assessment in a single platform, helping clinicians access relevant ocular data within one workflow. For myopia management, it supports longitudinal monitoring of key parameters over time. For multi-site practices, it helps promote consistency in data capture and review across teams and locations. For cataract and refractive surgery workflows, it provides a consolidated view of diagnostic measurements to support clinical evaluation prior to treatment. Structured reporting and longitudinal data visualisation support clinical review and patient communication.

Supporting Practice Growth and Scalability

MYAH PRO is designed to support practices seeking to expand services or improve operational consistency. By integrating multiple diagnostic capabilities, it may help simplify equipment requirements, reduce workflow complexity, support standardised diagnostic protocols, and facilitate access to structured data and longitudinal patient information.

For organisations operating across multiple locations, standardised workflows and structured data may support more consistent service delivery.



The Power of Communication

Clear communication plays a key role in patient understanding and engagement.

MYAH PRO presents diagnostic data through intuitive visualisations and structured reports, helping clinicians communicate findings, support treatment discussions, and review changes over time with patients and, where appropriate, their parents or carers.



Extending into Surgical Workflows

With the optional cataract module, MYAH PRO extends into pre-operative assessment by combining IOL calculation capabilities with a complete set of anterior segment biometry measurements, including AL, LT, ACD, and CCT. Keratometry (K) data derived from Placido ring topography is integrated within the same platform, supporting streamlined review of diagnostic data and surgical planning.

Ocular Surface Insight

MYAH PRO provides a comprehensive set of tools for ocular surface assessment, aligned with recognised clinical approaches, integrating tear film analysis, blink analysis, tear meniscus height assessment, meibomian gland evaluation, fluorescein imaging, and patient-reported questionnaires into a single workflow. These parameters support ocular surface evaluation in routine clinical practice and during preparation for contact lens fitting and surgical procedures.



Supporting Premium IOL Evaluation

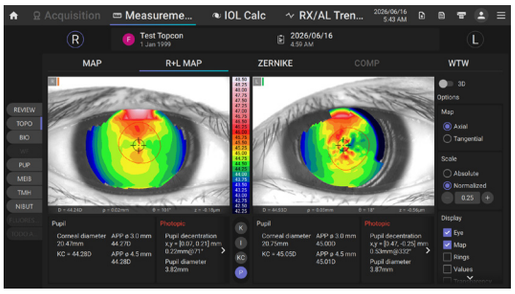
MYAH PRO supports premium IOL evaluation by integrating corneal analysis, pupillometry and comprehensive aberrometry (ocular, corneal, and internal) within a single workflow.

By providing insight into corneal characteristics, optical quality and pupil behaviour under varying lighting conditions, it enables a connected view of factors relevant to IOL selection. This integrated approach may help practitioners refine patient selection, support treatment discussions and enhance confidence when planning premium lens procedures.

MYAH PRO Key Features & Clinical Applications

Corneal Topography

MYAH PRO captures detailed anterior corneal maps using Placido-based imaging, providing curvature, elevation, power and White-to-White data to support contact lens fitting and differential diagnosis. One-touch comparison and differential maps allow easy tracking of corneal changes over time, whether monitoring keratoconus progression or evaluating the effects of refractive procedures.



Keratoconus Screening

MYAH PRO provides dedicated keratoconus screening using the Keratoconus Probability Index and Cone Location and Magnitude Index (CLMI[1]), supporting the identification of early ectatic changes and clinical decision-making for refractive surgery planning, myopia interventions, contact lens fitting, differential diagnosis, and ongoing monitoring.



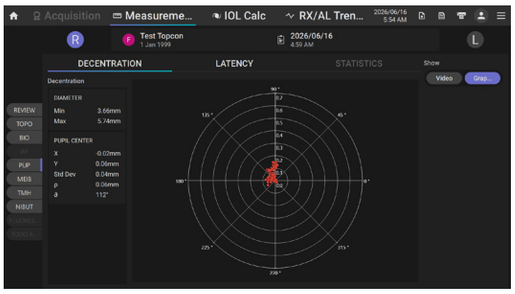
Aberrometry Analysis

MYAH PRO includes wavefront-based aberrometry analysis to assess lower- and higher-order aberrations of the eye. The integrated aberrometer enables decomposition into total ocular, corneal and internal aberrations, supporting detailed evaluation of optical quality. Results are integrated within the MYAH PRO platform for efficient review alongside other diagnostic findings and may support clinical assessment in refractive, cataract, ocular surface and research workflows. Aberrometry measurements can also provide objective data for evaluating optical changes associated with vision correction and myopia management approaches.



Pupillometry

Supports static and dynamic measurements under lighting conditions from photopic to scotopic. Captures pupil size and centration to assist with candidacy for various contact lens types, including Ortho-K, as well as planning for refractive and intraocular lens procedures. Dynamic data also reveals pupil response and positional changes under varying light levels.



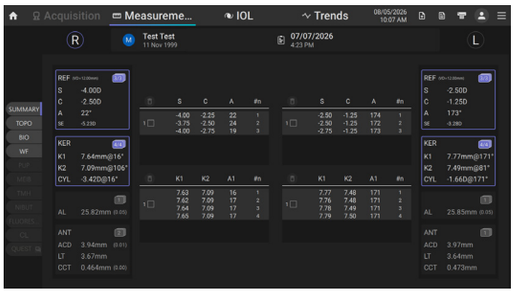
References

1. Maeda, N., Klyce, S. D., Smolek, M. K., & Thompson, H. W. (1995). Automated keratoconus screening with corneal topography analysis. Investigative Ophthalmology & Visual Science, 35(6), 2749-2757.

MYAH PRO Key Features & Clinical Applications

Objective Refraction

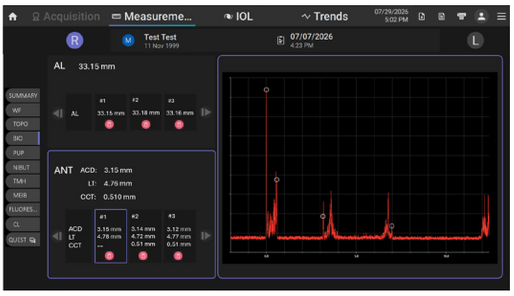
MYAH PRO offers objective refraction based on Hartmann-Shack technology to measure refractive error. It provides objective, measurement-based data that can support clinical assessment and monitoring of refractive changes over time. Measurements can be printed using the integrated thermal printer, individually or together with other examination data, including biometry results.



Biometry

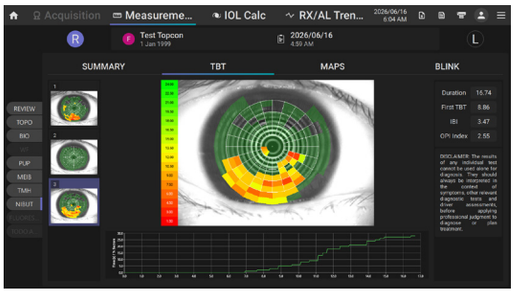
MYAH PRO provides axial length measurements to support myopia management and long-term monitoring of eye growth.

With the optional cataract module, it also measures central corneal thickness, anterior chamber depth, and lens thickness, providing essential biometric data for IOL calculations and cataract or refractive assessments.



Ocular Surface Assessment Tools

Including tear film stability, blink dynamics, tear volume imaging, meibomian gland evaluation and grading[2], fluorescein image and video capture, and patient questionnaires in line with TFOS DEWS III[3] recommendations. These assessments support ocular surface evaluation in myopia management, refractive and cataract workflows, and enable longitudinal monitoring in routine care.



Why Practices Choose MYAH PRO

- Expand clinical capabilities while consolidating diagnostics within a single platform
- Support efficient workflows through automation and integration
- Enable consistent data collection across users and locations
- Clear patient communication tools
- Consolidate diagnostics across myopia, ocular surface and surgical pathways



References

2. Pult, H. and Riede-Pult, B.H., 2012. Non-contact meibography: Keep it simple but effective. Contact Lens and Anterior Eye, 35(2), pp.77-80.
3. Wolffsohn, J. S., Benítez-Del-Castillo, J., Loya-Garcia, D., Inomata, T., Iyar, G., Liang, L., Pult, H., Sabater, A. L., Starr, C. E., Vehof, J., Wang, M. T., Chen, W., Craig, J. P., Dogru, M., Quinones, V. L. P., Stapleton, F., Sullivan, D. A., Jones, L., & TFOS collaborator group (2025). TFOS DEWS III Diagnostic Methodology. American journal of ophthalmology, S0002-9394(25)00275-2. Advance online publication.

TECHNICAL SPECIFICATIONS

GENERAL & IMAGING	
Corneal Topography	Keratoscopy, 22 Placido rings (>100,000 analysed / >6,000 measured points). Coverage: 0.5 mm up to 9.8 mm on a sphere of radius 8 mm (42.2 D with n=1.3375)
Auto-refractometry & Aberrometry	Hartmann-Shack Wavefront sensor, 880 nm. Pupil diameter area: Max ϕ 8 mm (For 20 D, 4 mm) Minimum: ϕ 2 mm.
Biometry	Time-Domain low-coherence interferometer, 1060 nm SLED
Integrated Functions	Pupillometry, Fluorescein, Inter-Blink Interval, Non-invasive Break-Up Time, Meibomian Glands Imaging, Tear Meniscus Height, Thermal printer, Pupillary Distance, Contact Lens Fitting simulation.

MEASUREMENT SPECIFICATIONS

CATEGORY	FEATURE	RANGE	RESOLUTION
Keratometry & Topography	Curvature radius	5.00–12.00 mm	0.01 mm
	Corneal power (n=1.3375)	28.00–67.50 D	0.01 D
	Axis	0–180°	1°
	Pupil diameter	2.00–10.00 mm	0.01 mm
	White-to-White	8.00–15.00 mm	0.01 mm
Ocular Surface	Inter Blink Interval	1.0–20.0 s	0.1 s
	Tear Break-Up Time	0.5–30.0 s	0.1 s
	Meibomian gland loss	1–100%	1%
	Tear Meniscus Height	0.10–1.00 mm	0.01 mm
Biometry	Axial Length	14–40 mm	0.01 mm
	Anterior Chamber Depth	1.5–7.0 mm	0.01 mm
	Lens Thickness (Phakic)	1.5–6.5 mm	0.01 mm
	Lens Thickness (Pseudophakic)	0.5–3.5 mm	0.01 mm
	Central Corneal Thickness	0.2–1.2 mm	0.001 mm
Refraction	Sphere	-25.00 to +22.00 D	0.01 D
	Cylinder	0 to ±10.00 D	0.01 D
	Axis	0–180°	1°
	Pupillary Distance	20–85 mm	1.00 mm

* Guided focus alignment: Manual guidance for all diagnostic imaging, enhanced by automatic guidance in supported imaging modes.

CONNECTIVITY & SOFTWARE	
DICOM	Storage, Query/Retrieve, MWL
EMR/EHR	XML Export
Integration	Harmony, 3rd party CL SW
Review	MYAH PRO Viewer / Client-Server
IOL Formulae	Barrett Universal II, Barrett Toric, Barrett True-K, and Barrett Rx, Olsen, Haigis, Holladay 1, Hoffer Q, SRK® II, SRK® T, Camellin-Calossi, Shammas No History, Abulafia-Koch Regression. **Coming soon: EVO, KANE**

SYSTEM BACKEND	
Operating System	Windows 11 IoT
Processor	Intel N97
Memory	8 GB RAM
Storage	≥500 GB SSD
Interfaces	1x USB3.0, 1x USB2.0, 1 Gb Ethernet
Display	Swivel Capacitive Touch Display

DEVICE SPECIFICATIONS	
Dimensions	564 x 332 × 598 mm (L x W x H)
Weight	21.0 kg
Power Supply	100–120 / 200–240 VAC; 50/60 Hz
Power Consumption	100 VA
Fuse Type	5 x 20 mm, ceramic, time-lag
Fuse Value	T3.15A H 250VAC

ENVIRONMENTAL CONDITIONS

	IN USE	STORAGE	TRANSPORT
Temperature	10°C 40°C	-20°C 70°C	-20°C 70°C
Relative humidity	8-75% (non-condensing)	8-75% (non-condensing)	8-75% (non-condensing)
Atmospheric pressure	800-1060 hPa	700-1060 hPa	700-1060 hPa

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IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

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