

MYOPIA EXPERT™ 700

Your Trusted Partner for Myopia Management.



Myopia Expert™ 700, a 2 in 1
accurate and easy to use instrument.



Introduction

2.5 billion people suffer from myopia today.¹

50% of the world's population is predicted to be myopic by 2050.¹

The younger a child becomes myopic the faster their myopia can progress.^{2,3}

Addressing this rising tide requires an accurate and easy to use diagnostic solution.

The Myopia Expert™ 700 is an optical biometer and topographer. It provides a fast and accurate solution* for measuring axial length and corneal topography.

Set yourself apart as a reference in Myopia Care.

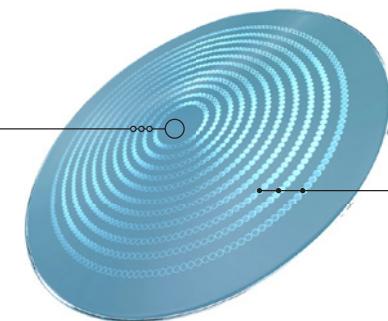
Myopia correction and control

Take a holistic approach in your Myopia Care. A genius innovation to slow down myopia progression. Essilor Stellest lenses slow down myopia progression by 67% on average.⁴



What Essilor® Stellest® Lenses bring to children with myopia.

Correct Myopia
Vision as clear as with single vision lenses.⁵



Control Myopia Progression
via H.A.L.T. Technology.

No compromises
Aesthetic, simple and safe.⁶
Comfortable, and easy to adapt for children.^{5,7}

*The Myopia Expert™ 700 has an in-vivo repeatability of +/-27 µm in Axial Length measurement. Visia Imaging (2021). ANNEX 18_7 Statistical Report. Data on file.

¹Compared to single vision lenses, when worn 12 hours per day every day for two consecutive years.

²Essilor® Stellest® lenses are made from AIRWEAR® polycarbonate which provides impact-resistance and blocks 100% transmission of UV. In terms of visual performance, research has demonstrated the Essilor® Stellest® lens does not impact central and peripheral visual functions.

³Holden, B.A., Fricke, T.R., Wilson, D.A., Jong, M., Naidoo, K.S., Sankaridurg, P., Wong, T.Y., Naduvilath, T.J., Resnikoff, S., 2016. Global Prevalence of Myopia and High Myopia and Temporal Trends from 2000 through 2050. *Ophthalmology* 123, 1036-1042.

⁴Wolfsohn JS, et al. IMI-myopia control reports overview and introduction. *Investigative ophthalmology & visual science*. 2019;60(3):M1-9.

⁵Sankaridurg P. A less myopic future: what are the prospects? *Clin Exp Optom*. 2015;98(6):494-6.

⁶Bao J, et al. Spectacle lenses with aspherical lenses for myopia control vs single-vision spectacle lenses: a randomized clinical trial. *JAMA ophthalmology*. 2022;140(5):472-8.

⁷Bao J, et al. One-year myopia control efficacy of spectacle lenses with aspherical lenses. *British Journal of Ophthalmology*. 2022;106(8):1171-6.

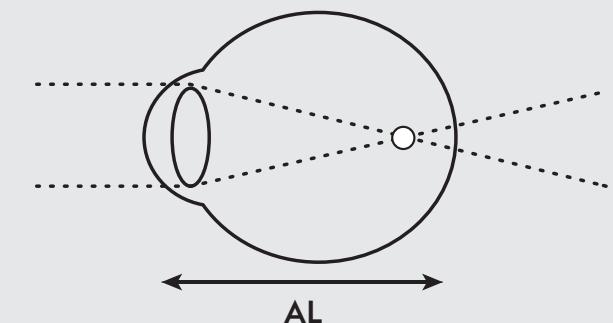
⁸Gao Y, et al. The impact of spectacle lenses for myopia control on visual functions. *Ophthalmic Physiol Opt*. 2021;41(6):1320-1331.

⁹Drobe B, et al. Adaptation and visual comfort in children with new spectacle lenses containing concentric rings of contiguous aspherical micro-lenses for myopia control. *Investigative Ophthalmology & Visual Science*. 2020;61(7):94.

Help control axial length growth

Axial Length Measurement

A critical clinical indicator in myopia management.⁸



The earlier myopia progression is controlled, the less likely it is to become more severe.⁹

International Myopia Institute (IMI) recommends a myopia follow-up exam every 6 months.¹⁰

A 50 µm difference between two follow-up exams indicates some myopia progression.^{11,12}



Myopia Expert™ 700 can measure axial length with an in-vivo repeatability accuracy of +/-27 µm*.

Monitor myopia progression through dedicated chart analysis.

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¹Visia Imaging (2021). ANNEX 18_7 Statistical Report. Data on file.

⁸Jones D, et al. IMI-Instrumentation for Myopia Management. *Investigative Ophthalmology & Visual Science*. 2025 Jul 1;66(9):7.

⁹Sankaridurg, P. 2015. A less myopic future: what are the prospects? *Clin Exp Optom*, 98 (6), 494-6.

¹⁰Gifford KL, Richdale K, Kang P, Aller TA, Lam CS, Liu YM, Michaud L, Mulder J, Orr JB, Rose KA, Saunders KJ. IMI-clinical management guidelines report. *Investigative ophthalmology & visual science*. 2019 Feb 28;60(3):M184-203.

¹¹Wolfsohn JS, Kolbaum PS, Berntsen DA, Atchison DA, Benavente A, Bradley A, et al. IMI - Clinical Myopia Control Trials and Instrumentation Report. *Invest Ophthalmol Vis Sci*. 2019;60(3):M132-M60.

¹²Moore KE, Berntsen DA. Central and peripheral autorefraction repeatability in normal eyes. *Optom Vis Sci*. 2014;91(11):106-12.

Become a reference in myopia management

Myopia Expert™ 700 offers a complete set of measurements for a state-of-the-art myopia management service.



Capture multiple measurements for different myopia control solutions with one single instrument.



Easy to use and integrate into your practice

Through its fast* and simple process, Myopia Expert™ 700 provides a smooth and comfortable experience for both the ECP and the patient.



Child friendly by design. Complete acquisitions are done in a few seconds*.



Non-invasive monitoring of axial elongation, without the use of anesthesia, for a comfortable experience for the patient.



Specifications

Measurement specifications

Axial length	Low coherence interferometry		
Corneal topography and keratometry	Keratoscopic cone	24 rings equally distributed on a 43D sphere	
	Analyzed points	Over 100,000	
	Measured points	Over 6,000	
	Corneal coverage	Up to 98 mm on a sphere of radius 8 mm (42.2 diopters with $n = 1.3375$)	
Focus system	Guided focus		
Pupillometry	Infrared LEDs + White LEDs for photopic pupil acquisition		
Fluorescein	Blue LEDs		

Measurement range and accuracy

		Measuring range	Display resolution	In vivo repeatability
Keratometry	Curve radius	5.00 - 12.00 mm	0.01 mm	±0.02 mm
	Curve radius in Diopter (D) ($n=1.3375$)	28.00 - 67.50 D	0.01 D	±0.12 D
Axial length		15.00 - 36.00 mm	0.01 mm	±0.027 mm
Pupil dimension		0.50 - 10.00 mm	0.01 mm	N/A
Limbus (white-to-white)		8.00 - 14.00 mm	0.01 mm	±0.05 mm

Environmental conditions

	In use	Storage	Transport
Temperature	Min 10°C Max 40°C	Min -20°C Max 70°C	Min -20°C Max 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

Electrical specifications

Power supply	AC 100-240V 50/60 Hz	
Power consumption	100 VA	
Fuse	Type	20 x 5 mm
	Value	T 2.5A H 250 V anti-surge

Mechanical specifications

Width	320 mm / 12.6 in
Height	490 mm / 19.3 in
Length	470 mm / 18.5 in
Weight	18 kg / 40 lbs

PC specifications

Operating system	WINDOWS embedded
Processor	Intel®
RAM	At least 4 GB
Hard disk	At least 500 GB
External connections	LAN integrated, 2x USB



CE 0123

Rx only - For prescription only

Myopia_Expert700-Brochure-WL-US-V1-Jan2026

Myopia Expert 700 is a medical device MDR class IIa.
Legal manufacturer:

Visia Imaging S.r.l. Via Martiri della Libertà, 95/e San Giovanni Valdarno (AR) Italy
For professional use only. Read attentively instructions for use.

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