

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

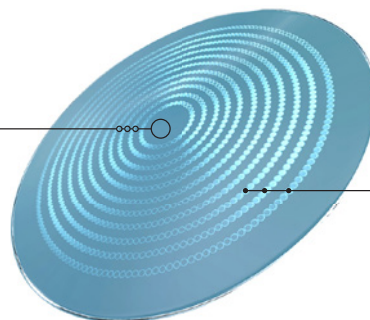
Take a holistic approach in your Myopia Care. A genius innovation to slow down myopia progression. Essilor Stellest lenses slow down myopia progression by 67% on average.^{†4}



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 $\pm 27 \mu\text{m}$ in Axial Length measurement. Visia Imaging (2021). ANNEX 18,7 Statistical Report. Data on file.

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

†Essilor® 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.

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

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

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

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

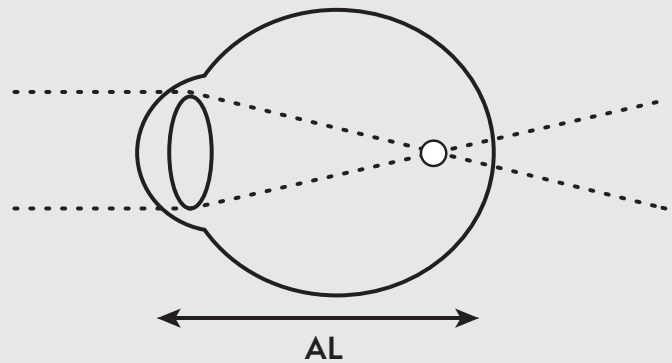
6. Gao Y, et al. The impact of spectacle lenses for myopia control on visual functions. Ophthalmic Physiol Opt. 2021;41(6):1320–1331.

7. Drobe 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 $\pm 27 \mu\text{m}^*$.

Monitor myopia progression through dedicated chart analysis.

*The Myopia Expert™ 700 has an in-vivo repeatability of $\pm 27 \mu\text{m}$ in Axial Length measurement. Visia Imaging (2021). ANNEX 18.7 Statistical Report. Data on file.

⁸Visia Imaging (2021). ANNEX 18.7 Statistical Report. Data on file.

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

¹⁰Sankaridurg, P. 2015. A less myopic future: what are the prospects? Clin Exp Optom, 98 (6), 494-6.

¹¹Gifford 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.

¹²Wolffsohn JS, Kollbaum 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.

¹³Moore KE, Berntsen DA. Central and peripheral autorefractive repeatability in normal eyes. Optom Vis Sci. 2014;91(9):1106-12.

Become a reference in myopia management

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

Corneal topography
for accurate contact lens
and Ortho-K fitting

Keratometry
for a precise measurement
of the central corneal radii

Axial length
follow the evolution of
the axial length



Simulated contact lens
Simulated image with a large
database for fitting & follow-up

Pupillometry
to determine reaction
times and size of pupil

White-to-white measurement
for the horizontal corneal
diameter measured between
the borders of the corneal limbus

Capture multiple measurements for different myopia control solution 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 9.8 mm on a sphere of radius 8 mm (42.2 diopters with $n = 1.3375$)
Pupillometry	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 h Pa	700-1060 h Pa	700-1060 h Pa

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
Height	490 mm
Length	470 mm
Weight	18 kg

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

CE₀₁₂₃ **Rx** only - For prescription only

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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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