MYOPIA EXPERT™ 700

Your Trusted Partner for Myopia Management.

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

ESSILOR
INSTRUMENTS

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.

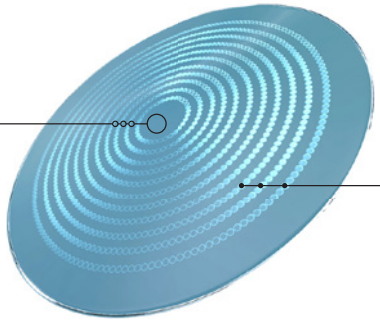
The Myopia Expert™ 700 is an optical biometer and topographer. It provides a fast and accurate solution* for measuring axial length and corneal topography.

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 Imaginig (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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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.
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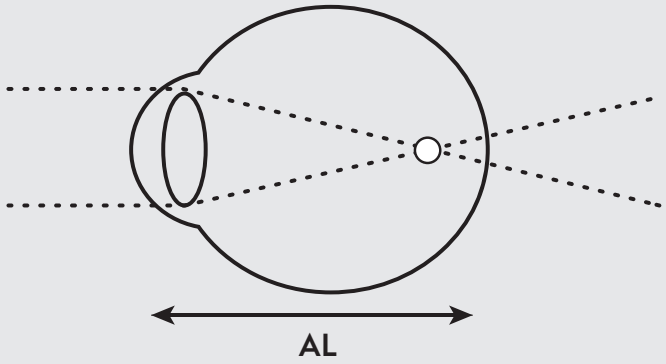
Help control axial length growth

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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†Visia Imaginig (2021). ANNEX 18_7 Statistical Report. Data on file.
8. Jones D, et al. IMI—Instrumentation for Myopia Management. Investigative Ophthalmology & Visual Science. 2025 Jul 1;66(9):7-.
9. Sankaridurg, P., 2015. A less myopic future: what are the prospects? Clin Exp Optom, 98 (6), 494–6.
10. Gifford 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.
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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.

*Visia Imaging (2024). 5.3.2 Software Requirements Specification. Annex 12.14. Data on file.

Specifications

Measurement specifications

Axial length	Low coherence interferometry	
Corneal topography and keratometry	Keratoscopic cone Analyzed points Measured points Corneal coverage Focus system	24 rings equally distributed on a 43D sphere Over 100,000 Over 6,000 Up to 9.8 mm on a sphere of radius 8 mm (42.2 diopters with n = 1.3375) 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 Curve radius in Diopter (D) (n=1.3375)	5.00 – 12.00 mm 28.00 – 67.50 D	0.01 mm 0.01 D	±0.02 mm ±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 Value	20 x 5 mm 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

CE 0123 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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