

# 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.<sup>1</sup>

50% of the  
world's population  
is predicted to be  
myopic by 2050.<sup>1</sup>

The younger  
a child becomes  
myopic the faster  
their myopia can  
progress.<sup>2,3</sup>

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

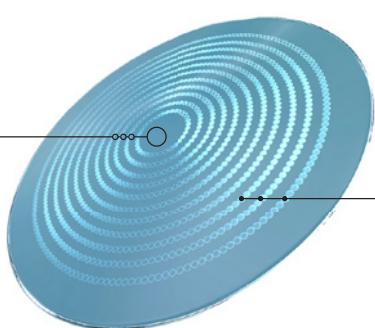
Take a holistic approach in your Myopia  
Care. A genius innovation to slow down  
myopia progression. Essilor Stellest lenses  
slow down myopia progression by 67%  
on average.<sup>4</sup>



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

### Correct Myopia

Vision as clear as with  
single vision lenses.<sup>5</sup>



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

#### No compromises

Aesthetic, simple and safe.<sup>6</sup>

Comfortable, and easy to adapt for children.<sup>5,7</sup>

\*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.

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

<sup>2</sup>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.

<sup>3</sup>Holden, 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.

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

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

<sup>4</sup>Bao 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.

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

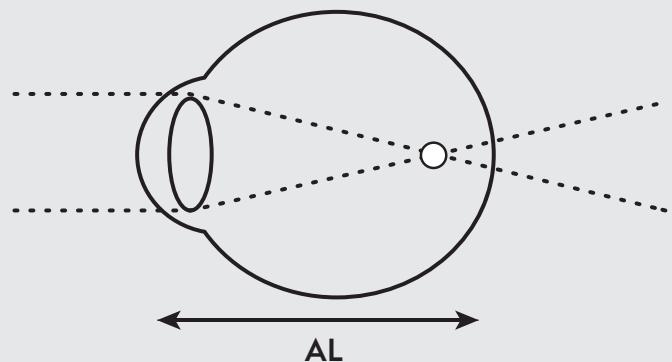
<sup>6</sup>Gao Y, et al. The impact of spectacle lenses for myopia control on visual functions. Ophthalmic Physiol Opt. 2021;41(6):1320-1331.

<sup>7</sup>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.<sup>8</sup>



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

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

A 50 µm difference between two follow-up exams indicates some myopia progression.<sup>11,12</sup>



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 Imaging (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.

11. Wolffsohn JS, Kolbbaum 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.

12. Moore KE, Berntsen DA. Central and peripheral autorefraction 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
	Analyzed points
	Measured points
	Corneal coverage Focus system
Pupilometry	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 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

  - 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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