



NEW
Lifestyle
Match Index®

Vivior Monitor

Individualized Refractive
Outcomes for Each Patient



The Vivior Monitor

The Vivior Monitor offers objective data on your patients' lifestyles to support the optimal selection of intraocular lenses or refractive surgery solutions.



Select the solution best suited to each individual patient.



ARTHUR B. CUMMINGS, MMED (OPHTH), FCS(SA), FRCS(ED), PCEO CONSULTANT OPHTHALMOLOGIST
Medical Director, Wellington Eye Clinic, Dublin, Ireland

"It has been published that doctors listen to patients for a total of 18 seconds during a consultation before interrupting and offering advice on how to proceed with a treatment plan. IOL surgery, whether it be for cataract or for refractive purposes, has a permanent outcome and implication. This is an important decision that requires more than a fleeting discussion or subjective questionnaire to determine the optimal IOL design for a particular patient. Imagine knowing up front exactly what working distances apply to your patient for near and intermediate work. Imagine knowing how much time is spent at these various distances during the course of the day. Imagine knowing the lighting conditions that the person works under. Imagine having everything you need in order to select the most appropriate lens design for your patient, all based on objective data. Imagine no longer. Vivior is here."

Differentiate your practice. The Vivior Monitor supports a unique surgical journey for your patients.



FRANCESCO CARONES, MD
Medical Director & Physician,
CEO CARONES Vision
Milan, Italy

“When we offer the Vivior Monitor to our patients, most of them understand that we are offering state-of-the-art digital technology. But most importantly, the patient lives with the device for a few days before surgery, which allows their family members and social network to be a part of the patient’s surgical journey. This has increased the positive word of mouth and perception about our practice and enables us to better differentiate our offering to our patients.”

Manage your patients’ expectations. The Vivior Monitor provides tools to educate and engage your patients so you can manage realistic expectations.



**H. BURKHARD DICK, MD,
PhD, FEBOS-CR**
Director and Chairman
University Eye Hospital
Bochum, Germany

“As ophthalmologists, we quite often ask ourselves the question: what do our patients see, is their vision good or limited? Much harder to figure out is how they see. Is the individual patient the smartphone-type or rather a person who likes to sit in a relaxed position and distance from a desktop? Or, does he spend most of the time in his car or on his bicycle? Figuring out the visual needs, the daily performance of his or her visual system and the challenges the patient faces can be very difficult, even in a doctor-patient conversation with a highly articulate and mentally alert individual. A revolutionary new approach to this problem is the Vivior Monitor, which exactly documents the way a person uses his or her visual system in the ‘real world’. It is a fantastic development, and I’m sure it will enable cataract and refractive surgeons, in particular, to offer highly individualized treatment solutions, resulting in unsurpassed patient satisfaction.”

Grow your practice.



AYLIN KILIÇ, MD
Associate Professor of Ophthalmology,
Cataract and Refractive Surgery Department,
Medipol University Istanbul, Turkey

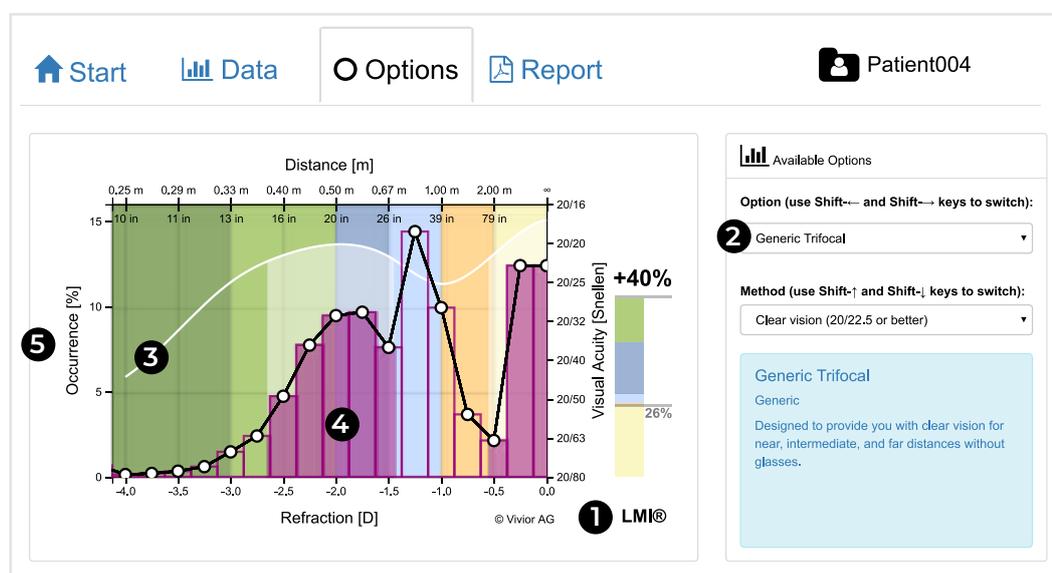
“The Vivior Monitor helps patients to understand the impact of IOL selection on their daily activities and lifestyle. This facilitates the lens options conversation and brings into account the cost-benefit of a premium IOL. The Vivior Monitor can help to increase the premium conversion rate of a clinic.”

Matching the lifestyle of your patient with the IOLs: Introducing the Lifestyle Match Index® (LMI®)

The Vivior Monitor objectively measures patient's behavior and matches it to the performance properties of a range of IOLs to compare monofocal, bifocal, and various multifocal technologies. By matching the patient's visual behavior with the defocus curve of an IOL, the Vivior algorithm calculates parameters that identify the patient's comfort in varied visual activities.

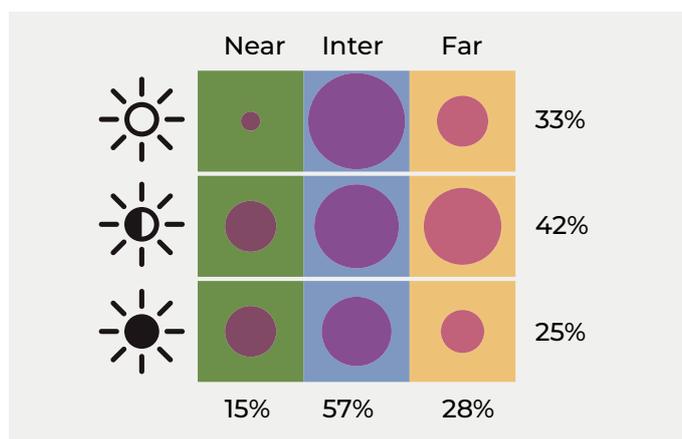
The Vivior LMI® Report quantifies the patient's visual comfort, the expected visual acuity, and the requirement for additional visual support (such as spectacles).

Vivior LMI® Interpretation



- 1 The Lifestyle Match Index®: quantifies the expected visual comfort of a patient.
- 2 IOL name: you select your preferred IOL to change the overlay defocus curve.
- 3 IOL visual acuity defocus curve: Available IOLs have different defocus curves that illustrate their potential visual acuity as a function of distance and refraction. The example shows the defocus curve of Generic Trifocal.
- 4 Distribution of the patient's viewing distances according to the Vivior data.
- 5 Occurrence is the frequency of the patient's viewing distances in %.

Distance vs illumination matrix



Near
<math>< 0.5\text{m}</math>

Intermediate
0.5m - 1m

Far
>1m

☀️ **Photopic**

🌞 **Mesopic**

🌑 **Scotopic**

The size of the circle is directly related to the fraction of time spent at certain distance and illumination.

Our Product

Our Vivior Monitor measures viewing distance, ambient light, color, acceleration, orientation, and magnetic flux. The Vivior Monitor does not include a camera, microphone, or any other sensors which might infringe the privacy of the patient or other people.

The patient wears the Vivior Monitor on either their own prescription glasses or the clear spectacles included in the Vivior System. Individual measurements are translated into representative visual behaviors using our state-of-the-art artificial intelligence algorithms. The patient's visual behavior is finally presented in various reports designed to facilitate patient-surgeon communication during the surgeon's search for the best IOL.

Process visualization



Vivior box

Videos

Vivior Monitor

Quick guide,
clear glasses
and technical
accessories

Spectacle fixation
accessories (adapter)



Technical and functional specifications

Vivior Monitor performance

Battery Life	16 hours
Time required to fully charge the Vivior Monitor	6 hours
Spectacles compatible with the Vivior Monitor	95%
Number of patients per Vivior Monitor	20

Functional elements

Adapter for attachment to the patient's prescription or clear spectacles

Monitor components:

- Time-of-flight distance sensor directed forwards
- Time-of-flight distance sensor directed 30° downwards
- Ambient light and RGB sensor
- UV light sensor directed upwards
- Inertial and magnetometer sensors
- OLED display 7-inches 128x32 resolution
- Energy-independent real-time clock
- Micro-USB 2.0 interface port with magnetic mechanical adapter for charging and data transfer

 High-security Swiss data cloud processing and analysis solution

Monitor

Dimensions	<ul style="list-style-type: none">• 60 x 19 x 11 mm• 2.3" x 0.74" x 0.43"
Weight	<ul style="list-style-type: none">• 14 g• 0.49 oz

Box

Dimensions	<ul style="list-style-type: none">• 25.5 x 18.8 x 6.3 cm• 10" x 7.4" x 2.2"
Weight	<ul style="list-style-type: none">• 1 Kg• 2.2 lb

Videos

About the clinic - shows your clinic video.

How it works - explains how the system assesses visual behavior.

How to use - contains the instructions for use.

Storage

The Vivior Monitor is not waterproof. It should not come into contact with water nor be used in wet weather conditions.

Keep containers dry, tightly closed, at temperatures between 5 and 35°C (41 and 95°F) and relative air moisture of 20 – 70%.



Our story

Initial inspiration for the Vivior Monitor occurred when the daughter of one of our founders developed myopia. This drove him to find a way to help her and other children with short-sightedness and address the global myopia epidemic. He developed a first monitor, which caught the interest of international cataract and refractive surgeons. These experts were challenged with objectively measuring patient goals and expectations to determine the intraocular lens or refractive procedure best suited to each patient's lifestyle.

With this challenge in mind, Vivior was founded in Switzerland in 2017 by a group of experienced eye care professionals. The monitor soon developed into a lightweight, user-friendly device now known as the Vivior Monitor. We paid special attention to the integration of the patient-specific data into the clinical workflow, the software interface, and tools for patient education.

Since then, the product has been the subject of several studies and reviews by some of the most experienced cataract and refractive surgeons in the world. We aim to provide cataract and refractive surgeons with objective patient lifestyle data and to enhance the patient post-op experience, particularly lifestyle expectations.

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