

Near vision is hard work for our eyes

Presbyopes today lead very active lives, often involving extensive use of digital screens for both work and leisure.

72%

of their time is spent in near and intermediate vision.¹

Keeping up with this can lead to discomfort:

80%

of people aged 40-65 suffer from visual fatigue at the end of a typical day.²

71%

of people aged 40-65 need to make an effort to maintain sharpness.²



Varilux® Immersia™: the new occupational lenses to stay comfortably immersed in your immediate surroundings.

Developed to support prolonged close focus, using in-depth analysis of screen positions, considering the patient's natural posture and ergonomic needs.

Tested in a simulated environment using AI-powered digital twinning technology, which enables a wide range of R&D simulations to assess and guarantee lens performance.

Standard
Progressive Lens

FAR
NEAR

Varilux® Immersia™
Lens

For illustration purposes the image refers to Varilux® Immersia™ mid lenses.

A new design defined by three reference points, corresponding to the most-used viewing distances in our immediate surroundings¹

- **Smartphone distance** – the near vision zone
- **Working distance** – the area directly in front of the patient
- **Conversational distance** – the maximum reliable distance for in-person interaction

This provides **expanded vision in close-up and digital activities³** and helps alleviate **digital eye strain.⁴**

from

+35%

to

+76%

Varilux® Immersia™ room

Varilux® Immersia™ mid

wider area of sharp near vision vs. standard progressive lenses on average.⁵

Smartphone distance

When using smartphones, patients have a gaze angle of around 25.6° on average⁷, suggesting a **preference to lower the head rather than lowering the eyes**.

By placing the near vision zone higher in the lens, Varilux® Immersia™ provides easier access to near vision, which enables **natural head posture in front of screens**.⁸



expanded range of head postures with good visual acuity vs. standard progressive lenses.⁹



Standard Progressive Lenses



Varilux® Immersia™ Lenses



Standard Progressive Lenses



Varilux® Immersia™ Lenses

Working distance

Varilux® Immersia™ lenses are ergonomically designed for computer life.⁹ When looking straight ahead, the patient can **view their desktop screen or work area with minimal adjustment of the head and eyes**.

With standard progressive lenses, patients elevate their head by -8°. With Varilux® Immersia™ the head tilt is much closer to the ergonomic recommendation of 0°: -1° or -2°, according to product version.⁹

Conversational distance

To meet different near vision needs, Varilux® Immersia™ is available in two versions, each providing different maximum reliable distance—regardless of the prescription addition.

Varilux® Immersia™ mid



Vision up to **5 feet**: the average maximum distance of an object on a desk and of a face-to-face conversation in close proximity.

Easy switching between different devices.³

Usage: prolonged and **static** near and intermediate vision activities.

Recommended for ametropic presbyopes as a complementary pair in addition to their main Varilux® progressive lenses.

+55% 3D sharp vision up close vs. standard progressive lenses.³

Varilux® Immersia™ room



Vision up to **10 feet**: the average conversational distance in a business or casual setting.

Optimized for multitasking in near and intermediate ranges.³

Usage: prolonged and **dynamic** near and intermediate vision activities.

Recommended as a first pair for emmetropic presbyopes, who may not want to wear progressive lenses all the time.

+22% 3D sharp vision up close vs. standard progressive lenses.³

Communicating Varilux® Immersia™ lenses to your patient

Occupational lenses are the ideal solution for expanded near-vision tasks in both work and leisure.

- Varilux® Immersia™ occupational lenses offer the specialized support you need.
- Just as you benefit from changing your footwear between everyday walking and hiking, you can benefit from switching between progressive lenses and occupational lenses. Varilux® progressive lenses are ideal for all-day, on-the-go use, while Varilux® Immersia™ lenses are designed to support prolonged close focus and optimized for multitasking at near ranges.

Varilux® Immersia™ lenses offer a comprehensive near-range solution.

- They go beyond the limitations of near single vision options by providing multiple distances at near and intermediate ranges.

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2. EssilorLuxottica. (2023). Vision Care U&A Quantitative Study. Data on file.

3. EssilorLuxottica. (2025) Internal R&D simulations - volume of vision simulation up to 80cm. Data on file.

4. Sánchez-Brau M, Domenech-Amigot B, Brocal-Fernández F, Seguí-Crespo M. Computer vision syndrome in presbyopic digital device workers and progressive lens design. Ophthalmic Physiol Opt. 2021 Jul;41(4):922-931. doi: 10.1111/ppo.12832. Epub 2021 May 4. PMID: 33945635 Computer vision syndrome (Digital Eye Strain) is reduced in presbyopic desktop computer workers wearing occupational lenses, especially in emmetropes.

5. EssilorLuxottica. (2025) Internal R&D simulations - 2025 - visual acuity simulation for smartphone, laptop and computer distances. Data on file.

6. EssilorLuxottica. (2015) Wave 2.0™ White Paper. Data on file.

7. Damien Paille, Jean-Luc Perrin, Amandine Deblieuvre. New postural behaviors related to the use of digital devices involve new characteristics for occupational lenses. Invest. Ophthalmol. Vis. Sci. 2015;56(7):4304.

8. EssilorLuxottica. (2025). Internal R&D simulations - head posture simulation on several prescriptions and several distances per device.

9. EssilorLuxottica. (2025). Internal R&D simulations - head tilt simulation in regard to ergonomic OSHA (Occupational Safety and Health Administration, USA) recommendations. Data on File.

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