

SERENE 2.0

Living life without limits



Caledonian
Optical

SERENE 2.0

PERSONALISED ANTI-FATIGUE FREE-FORM SINGLE VISION LENS THAT ALLOWS US TO LIVE AND ENJOY OUR LIFE WITHOUT LIMITS.

We are all currently living through the fourth industrial revolution, a revolution characterized by the presence of technology and digital in practically all stages and circumstances of our lives and, mainly, in that of young people.

In fact, we live permanently connected to different electronic devices and, therefore, focusing on several screens. A digital and technological lifestyle like this requires healthy and strong eyes. **SERENE 2.0** lenses have been developed not only to protect our eyes but also to **alleviate the symptoms of eyestrain associated with the use of electronic devices.**

They even incorporate **a small increase in near power that can be customized for each patient**, resulting in the ideal lens for our intense digital and technological life.



BENEFITS

- ✓ More relaxed vision requiring less accommodative effort.
- ✓ Design to significantly improve reading speed on digital devices.
- ✓ Comfortable and precise focus at all distances.
- ✓ Near elimination of peripheral blur.
- ✓ Superior visual quality for viewing digital devices.
- ✓ Impeccable visual quality and precise focus.

IDEAL WEARER

- ✓ People who need **the most original solution.**
- ✓ Patients with **symptoms of visual fatigue.**
- ✓ **Pre-presbyopes.**
- ✓ **Digitally connected wearers.**
- ✓ Wearers with **all types of prescription power.**

TECHNOLOGIES

SERENE 2.0 lenses incorporate **IOT Digital Ray-Path 2 Technology**



IOT DIGITAL RAY-PATH 2 TECHNOLOGY

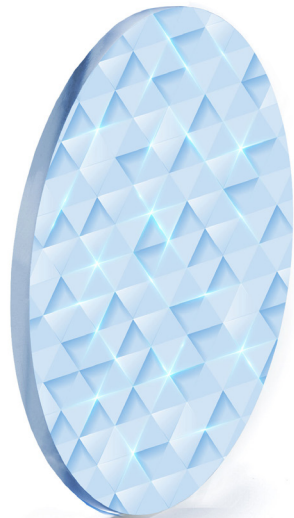
A real revolution in vision

IOT Digital Ray-Path 2 pushes the limits of geometry in lens Personalisation by incorporating the wearer's accommodative capacity in the final lens calculation **to further minimize oblique aberrations.**

This technology incorporates this factor into each individual lens and considers the accommodative object space, the volume defined by the points within the clear visual range, for each gaze direction.

BENEFITS

- ✓ Wider visual fields.
- ✓ Precise and comfortable vision.
- ✓ A more consistent wearer experience.
- ✓ Near elimination of peripheral blur.
- ✓ Superior visual quality with digital devices.



IOT Digital Ray-Path 2 works in synergy with nature. It utilizes the innate power of the human eye to refine the optimization process for Personalised lenses.

FACTS

- ✓ **11%** of gaze directions are now optimized in traditional lenses.
- ✓ **43%** of gaze directions are now optimized in Personalised lenses.
- ✓ **99.5%** of gaze directions are now optimized in lenses with IOT Digital Ray-Path 2

Features



PERSONALISATION

The design is further enhanced, when desired, by a complete set of individualization parameters that take into consideration the unique attributes of the frame and the preferences of the wearer. If no parameters are provided, **IOT Digital Ray-Path 2** will utilize default values.



COMPENSATED POWER

Lens power differs from prescribed power. The design is calculated, point by point, to ensure wearers perceive the proper power when looking through their lenses at every distance and direction of gaze, including near distances for viewing electronic devices.



OPTIMIZED FOR ACCOMMODATIVE OBJECT SPACE

IOT Digital Ray-Path 2 incorporates the intelligent use of the wearer's accommodation into the traditional calculations for reducing oblique aberrations, resulting in a superior Personalised lens. Oblique aberrations are minimized more effectively than ever before.



CONSISTENCY

The perceived power distribution remains stable, regardless of the prescription or base curve. This is especially beneficial for high prescriptions and large or wrapped frames.



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