

# ZONE BASE 2.0

Outstanding intermediate vision.



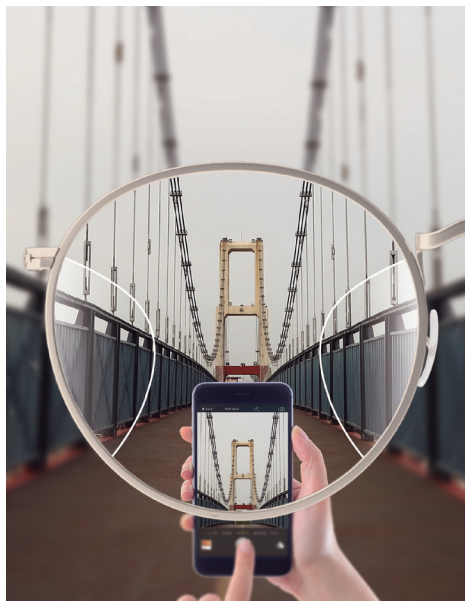
Caledonian  
Optical

# ZONE BASE 2.0

## OUTSTANDING INTERMEDIATE VISION

Today, there are many people who are not satisfied with just enjoying a fantastic intermediate vision. They are also looking for a premium lens that offers them a new visual experience and incredible performance.

In order to satisfy these wearers' needs, **Zone Base 2.0** is a personalised free-form progressive lens that is capable of meeting the demands of a huge number of people by having **a smooth transition between the different visual fields, a wide intermediate vision, advanced technologies, an easy and quick adaptation, an extraordinary image stability and the most natural vision.**



### IDEAL WEARER

- ✓ People who clearly want to enjoy an outstanding solution with an unbeatable comfort and visual quality.
- ✓ Beginners, non-adapted patients and experienced progressive wearers who prefer a fantastic intermediate vision above all else.
- ✓ Wearers with all types of prescription and addition powers.

### BENEFITS

- ✓ Extra-soft lens design.
- ✓ Wide intermediate visual field.
- ✓ Intermediate zone easier to find.
- ✓ Peripheral blur reduction.
- ✓ Higher image stability for reduced swim effect.
- ✓ Promotes easy and quick adaptation.
- ✓ Highly personalised lens.

**MFH** [Minimum fitting height]

14mm | 15mm | 16mm | 17mm | 18mm

# TECHNOLOGIES

**Zone Base 2.0 lenses incorporate IOT Digital Ray-Path 2 Technology, and Acu tech™.** With this technology, the swim effect is significantly reduced.

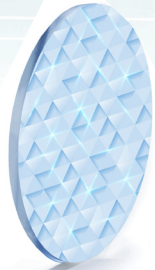


## IOT DIGITAL RAY-PATH 2 TECHNOLOGY

OT 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.

**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

\* Taking into account the wearer's accommodation capacity. Blur <0.18 D.  
Theoretical study carried out on a single vision lens. [+3.00 +1.00 × 45°], Base 6 D, index 1.5.

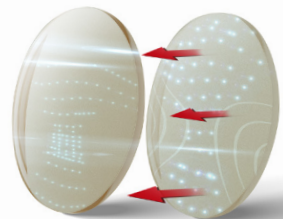
## ACU TECH™ TECHNOLOGY

### A visual evolution.

Acu tech™ carefully balances the mean power required for intermediate and near vision, achieving **a perfectly symmetrical and smooth distribution.**

In addition to controlling for unwanted cylinder power, Acu tech™ addresses unwanted changes to mean power in the lateral areas of the lens, providing superior progressive lenses for all lifestyles and market segments. Its evolution, Acu tech™, provides superior binocular visual performance for mid-range and near vision.

**Acu tech™ adds a substantial improvement in the wearer's binocular performance and provides a smoother visual experience as both eyes perceive identical powers for each gaze direction.**



### CONCLUSIONS



**88%**

wearers enjoyed excellent near vision



**81%**

wearers experienced a great near and intermediate vision

# Features

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## **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.



## **STRICT CONTROL OF MEAN POWER IN DISTANCE AREA OF THE LENS**

Significantly reduces mean power error.



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