



Pioneering Ophthalmic Technology

Lens Catalogue 2023



OUR STORY SO FAR...

Caledonian Optical is a British spectacle lens manufacturer established over 40 years ago in Aberdeen, Scotland, with a **commitment to manufacturing the highest quality lenses utilising the latest digital lens designs and state-of-the-art equipment**. We are proud to carry the Made in Britain mark, recognising that we are manufacturing to the very highest standards and the importance of supporting the local economy and reducing our carbon footprint.

2023 is a pivotal year in the Caledonian Optical journey following a £1.5 million investment in new manufacturing facilities, moving from a 2,000 sq building to a brand new 10,000sq ft purpose-built facility. We took this opportunity to source the very best spectacle lens manufacturing equipment available worldwide.

The move has tripled our manufacturing capacity, affording us the opportunity to offer our high-quality, award-winning lenses to more independent practices around the whole of the UK.

We continue to invest in our people, with over 150 years of technical experience, and grow our sales and customer service teams, providing a dedicated personal support system to all our customers.

We understand the importance of reliable and consistent service, which continues to be the foundation for everything we do. With years of experience in servicing the independent optical market, we recognise the importance of quality products and service and are committed to delivering the **Caledonian Optical Approved Quality Assurance**. This includes **working with you to grow your business, pioneering the very latest technology, providing advanced lens solutions, and allowing you to offer a superior visual experience to your customers**.





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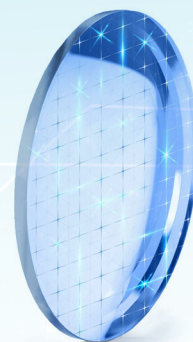
CALEDONIAN OPTICAL APPROVED QUALITY

OUR TECHNOLOGIES



Camber™ Technology

Camber™ Technology combines complex surfaces on both sides of the lens to provide **excellent vision correction**. The unique variable base curve on the front surface of the specially designed lens blank allows expanded reading zones and improved peripheral vision.



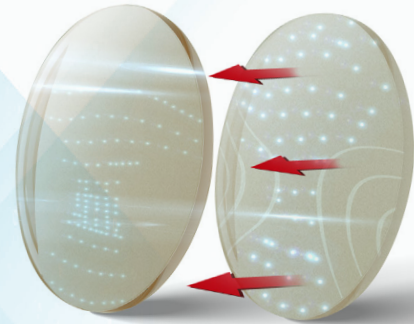
Camber™ is an innovative lens technology that combines complex curves on both of the lens to provide excellent vision correction.

iot
Technology



Acu tech™ Technology

Acu tech™ is the latest technology applied in double sided lenses development that drastically minimize the lateral power errors in a progressive lens for both cylindrical and spherical error components .



IOT Digital Ray-Path 2

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.

It utilizes the innate power of the human eye to refine the optimization process for personalised lenses.



Oblique aberrations are minimized more effectively than ever by incorporating the intelligent use of wearers' accommodation into traditional calculations.

Thanks to Acu tech™ wearers get the benefit of superior image stability, even in dynamic conditions also enjoying maximized visual fields for all distances.



COMBINING FRONT AND BACK SURFACES

Camber Technology is one of the most advanced digital lens design technology available today.

It combines the sophistication and engineering of the unique Camber lens blank with a full range of renovated and optimized digital designs on the back surface.

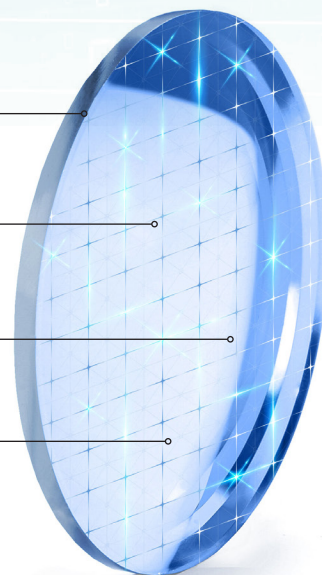
Camber's variable base curve significantly reduces oblique aberrations because of its pure and unique geometry, while IOT Digital Ray-Path technology, compensates and optimizes the back surface of the lens to enhance distance, intermediate and near visual fields. Each wearer receives a fully personalised dual side lens that is more functional and comfortable to wear.

CAMBER LENS BLANK

Available in all standard materials

No additional machinery or technology required

Variable base curve



The Camber finished lens is made up of **three essential components**:

1

The Camber blank

2

The Rx Design computation

3

The individual wearer's custom parameters

3 PARTS
SYNERGY

2022
Certificate of
Excellence

camber™
With IOT Intelligence



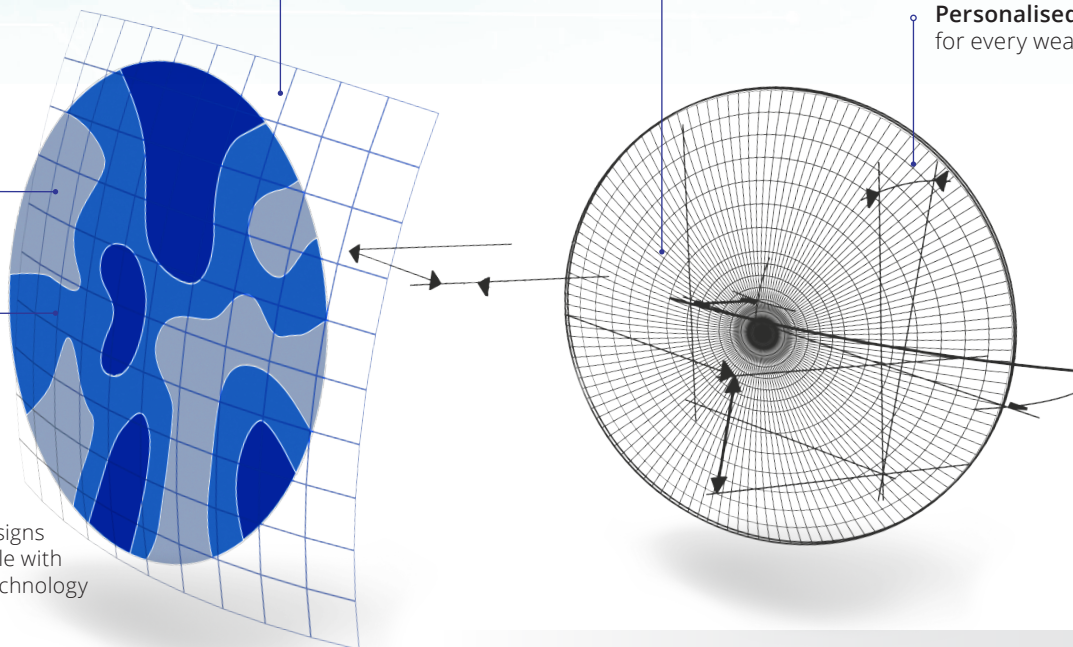
Fully optimize back surface lens design thanks to IOT Digital Ray-Path technology

CAMBER LENS DESIGN

PERSONALISATION PARAMETERS

Personalised for every wearer

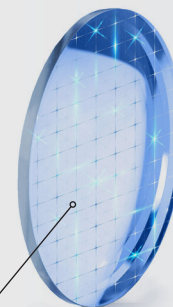
Several designs are available with Camber Technology



AN ADVANCED LENS LIKE NO OTHER

Camber finished lens gives wearers an outstanding visual experience with spacious reading zones, improved peripheral vision, an expanded Rx range, better-looking lenses in many prescriptions, and user-preferred vision performance.

Optimized to benefit from front surface variable base curve



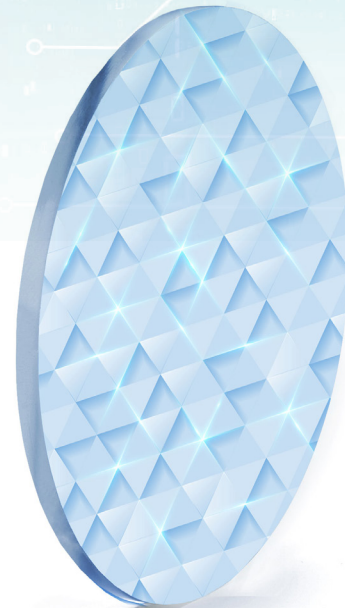
IOT DIGITAL RAY-PATH 2 TECHNOLOGY

IOT DIGITAL RAY-PATH 2 TECHNOLOGY, PUSHING THE LIMITS OF GEOMETRY IN LENS PERSONALISATION

IOT Digital Ray-Path 2 is IOT's foundational technology for minimizing oblique aberrations in personalised and compensated free-form lenses. In addition to mathematically compensating for oblique aberrations.

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.

Oblique aberrations, found in any lens, include astigmatic and spherical power errors. These errors create an out-of-focus image vision as the wearer's gaze moves away from the optical center of the lens. Eliminating them completely is not mathematically possible. Some residual power error remains, causing a slight blur.



BENEFITS

- **Wider fields of view.**
Reduced areas of blur result in wider fields of view for wearers.
- **Precise and comfortable vision.**
For all working distances and directions any direction of gaze making lenses with IOT IOT Digital Ray-Path 2 technology ideal for everyday wear and for viewing electronic devices.
- **A more consistent wearer experience.**
Perceived power distributions remain stable, regardless of Rx or base curve. This is especially beneficial for patients with high prescriptions or large or wrapped frames
- **Near elimination of peripheral blur.**

Lenses calculated with this technology provide a new visual experi 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. ence no matter the prescription or frame selected.

A unique digital lens completely optimized for each user.



THE POWER OF ACCOMODATION

The relationship between eye accommodation, the accommodative object space, and compensated power has long been understood. Until now, lens calculation technology has not been sophisticated enough to create free-form digital lenses that take full advantage of this knowledge.

Accommodation is the wearer's natural ability to focus on different distances, without moving their eyes or head, by stimulating or relaxing the lens within the eye. IOT Digital Ray-Path 2 incorporates this factor into each individual lens calculation. IOT Digital Ray-Path 2 also considers the accommodative object space, the volume

defined by the points within the clear visual range, for each direction of gaze.

IOT Digital Ray-Path 2 mathematical methods take advantage of the natural ability of the visual system to compensate for a portion of the spherical component of oblique aberration. **IOT Digital Ray-Path 2 considers small power adjustments wearers can naturally make at each fixation point. Oblique aberrations are minimized, in a more effective way, offering wearers impeccable visual quality.**

Proven results

OBLIQUE ABERRATIONS IN TRADITIONAL LENSES

11% of gaze directions
are now optimized*



OBLIQUE ABERRATIONS IN PERSONALISED LENSES

43% of gaze directions
are now optimized*



OBLIQUE ABERRATIONS IN LENSES OPTIMIZED WITH IOT DIGITAL RAY-PATH 2

99,5% of gaze directions
are now optimized*



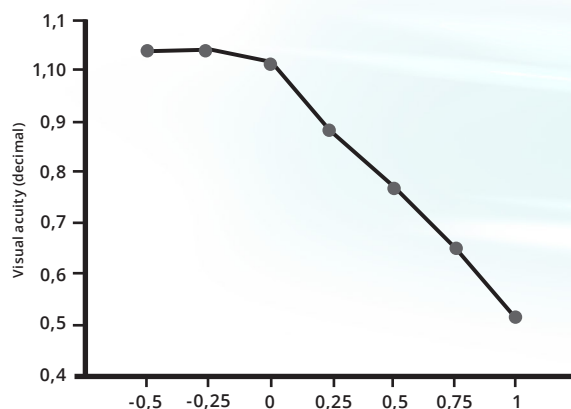
* Taking into account the wearer's accommodation capacity. Blur <0.18 D.
Theoretical study carried out on a single vision lens. [+3.00 +1.00 × 45°], Base 6 D, index 1.5.



Acu tech™ technology focuses primarily on minimizing the spherical peripheral power errors to deliver patients a more focused and natural vision. This is a critical factor that has not been considered so far as positive spherical power errors cannot be compensated naturally by the human eye since the only available natural mechanism, the accommodation, cannot help. The following **chart shows how visual acuity is affected when changing patient's prescription by introducing some spherical power errors.**

If the induced spherical power error is positive the visual acuity drops drastically. The higher the positive spherical error, the more visual acuity is reduced. However, when the induced spherical power errors are negative, visual acuity is not affected as the human eye can accommodate and compensate these errors. Obviously, under the ideal conditions – no spherical error - maximum visual acuity is achieved and accommodation is completely relaxed.

Thanks to this improvement, a significant reduction of the cylinder power errors is also achieved, delivering a superior lens that provides better image stability, less distortion and swim effect.



BENEFITS

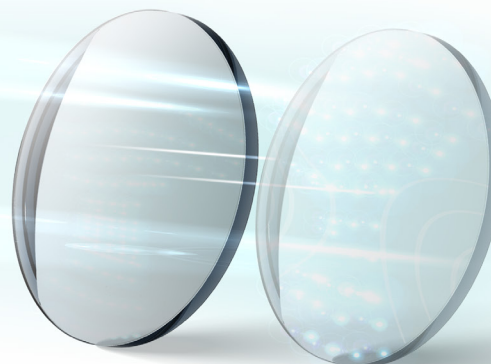
- Wide near and distance visual fields
- Swim effect minimization
- Better peripheral vision
- Better image stability, even in dynamic conditions
- Ideal for all progressive lens wearers, experts or novices, looking for a premium progressive lens that offers both extended visual fields and minimal lateral distortion.

DOUBLE SIDE BLANK

Calculated thanks to Acu tech™

SPECIFIC DESIGN

Optimised design for a better comfort



COATING



COATING

Diamond

Our 24/7 clarity coating

Combined with high quality Antistatic, Super-Hydrophobic and Oleophobic layers, the lenses are significantly protected against the build-up of contaminants such as dust, grime and water from landing and staying on the lens. Thus, giving exceptional clarity throughout the day. And to protect the lens further, extra hard coat layers are built into the process to provide an outstanding resistance to scratches. Our iC Diamond coating is regularly tested to ensure consistency throughout. It goes through the following procedures: Saltwater Boiling test, Steel Wool Abrasion test, Eraser Abrasion test, Humidity test, Dry Heat Crack test & Hydrophobic properties test.

REFLECTION FREE EFFICIENCY



SCRATCH RESISTANCE



WATER REPELLENCE



SMUDGE REPELLENCE



DUST REPELLENCE



Intero

Our anti-reflection coating

Intero coating solves the reflectance issue by absorbing UV rays hitting the back of the lens. Thus providing the best all-around UV protection. All high index lenses we provide have a 100% UV filter embedded in the material, which prevents UV rays from passing through the front of the lens. All standard AR coatings can reflect UV rays from the back surface of the lens into the eyes. This can be as much as 50% of exposure. Our Intero coating solves the reflectance issue by absorbing UV rays hitting the back of the lens. Thus providing the best allround UV protection.

REFLECTION FREE EFFICIENCY



SCRATCH RESISTANCE



WATER REPELLENCE



UV REFLECTANCE



SMUDGE REPELLENCE



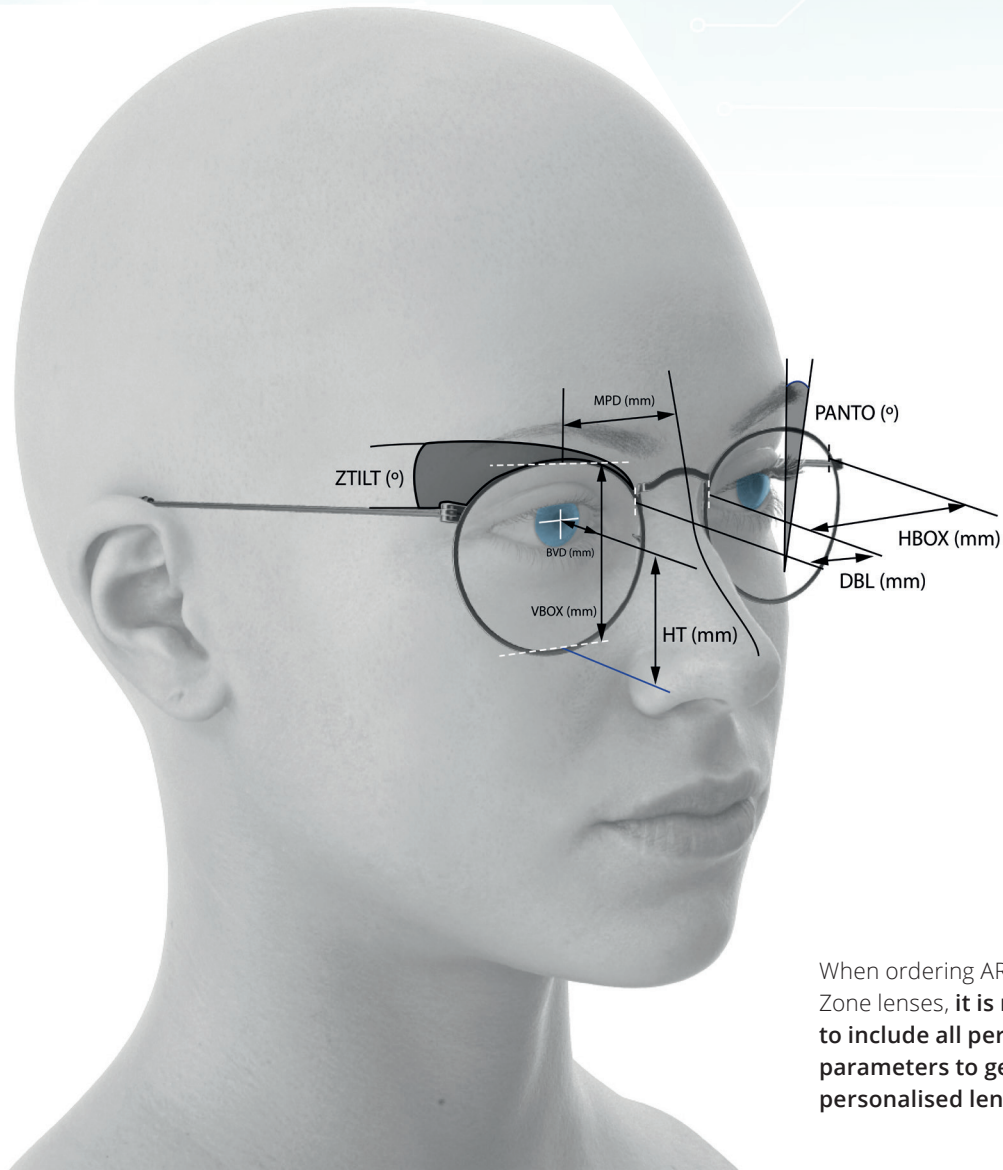
DUST REPELLENCE



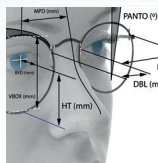
AVAILABILITY

	ARC	PROGRESSIVE					SINGLE VISION				OCCUPATIONAL
	ARC STEADY 2.0	ZONE MOBILE 2.0	ZONE EXTEND 2.0	ZONE BASE 2.0	ZONE DRIVE 2.0	ENTRY 2.0	HDSV 2.0	SERENE 2.0	HDSV DRIVE 2.0	IMPERIUM	OFFICE 2.0
CLEAR											
1.50	✓	✓	✓	✓		✓	✓	✓		✓	✓
1.53											
1.60											
1.67											
1.74											
BLUE FILTER											
1.50		✓	✓	✓	✓	✓	✓	✓	✓		✓
1.60											
1.67											
1.74											
TRANSITIONS											
1.50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.53											
1.60											
1.67											
1.74											
POLARISED											
1.50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.53											
1.60											
1.67											
SUPERCHROMIC											
1.50		✓	✓	✓		✓	✓	✓		✓	✓
1.60											
1.67											

PERSONALISATION PARAMETERS

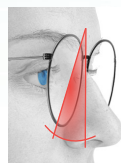


When ordering ARC Steady 2.0 or Zone lenses, **it is recommended to include all personalisation parameters to get a fully personalised lens.**



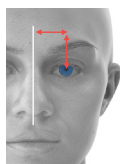
Prescription & Addition

IOT Digital Ray-Path 2 calculates the power that the wearer will truly perceive once the lenses are fitted on the frame.



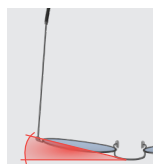
Pantoscopic Angle

This is the angle in the vertical plane between the optical axis of a spectacle lens and the visual axis of the eye in primary position.



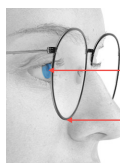
Nasopupilar Distance

Is defined as the distance from the axis of symmetry of the face to the center of the pupil.



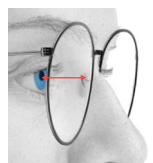
Wrap Angle

Frame curvature.



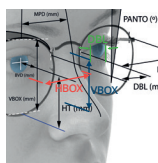
Pupilar Heights

Is the vertical distance between the pupil center and the deepest part of the lens shape.



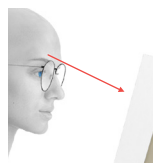
Back Vertex Distance

Distance between the cornea and the back surface of the lens.



Frame Dimensions

Frame dimensions are used to calculate the final diameter, thickness of the lens and improve the efficiency of the optimization.



Near Working Distance

This is the distance from the lens to the typical reading position for the wearer.

When some of the personalisation parameters are not available, the final lens will be personalised using standard values for those parameters that are missing.



Empowering Children's Visual Health!

NEW

imperium.

Myopia Management Lenses

We understand that having effective solutions to slow the progression of myopia is key to **delivering high quality vision care services for your paediatric patients.**

Caledonian Optical invites you to enhance your myopia management offering with IMPERIUM, a digitally surfaced lens clinically proven to slow the progression of myopia¹.

Behind the **lens**

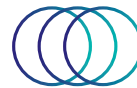
Although Imperium looks like a normal single vision lens, it has **two zones of positive power to induce myopic defocus in the lateral areas of the lens.** These zones coincide with areas of increased retinal cell distribution, thereby reducing the stimulation for the eye to elongate.

With prominent upward gaze directions, children will benefit from the central, vertically orientated zone which provides the prescribed power.

Imperium also provides **additional benefits** which allow you to offer your patients more choice*:



Freedom of frame choice:
with minimum boxed size
of 37mm x 17mm



**Wide range
of materials:**
no limitations on indices



Extended prescription range:
from +0.50 for pre-myopes
deemed high risk



**Comprehensive sun
protection options:**
from photochromic to polarised

¹Tarutta EP, Proskurina OV, Tarasova NA, Milash SV, Markosyan GA. Otdalennyye rezul'taty ochkovoï korrektsii s perifokal'nym defokusom u detei s progressiruiushchei miopiei [Long-term results of perifocal defocus spectacle lens correction in children with progressive myopia]. Vestn Oftalmol. 2019;135(5):46-53. Russian. doi: 10.17116/oftalma201913505146. PMID: 31714512.

* Not available with Intero coating or blue filter.

LENS PORTFOLIO

- ARC LENSES
- PROGRESSIVE LENSES
- SINGLE VISION
- OCCUPATIONAL LENS



Lens Portfolio

Product type	Lens category	Product name	Calculation technology	Compensated power	Personalisation parameters (optional)
Arc lenses	Premium	Arc Steady 2.0	Camber / Acu tech	Yes	Yes
Progressive lenses	Best	Zone Mobile 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Best	Zone Extend 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Best	Zone Base 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Best	Zone Drive 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Good	Entry 2.0	Digital Optimization	No	No
Single vision	Premium	Serene 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Premium	SV Zone 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Best	HDSV Drive 2.0	IOT Digital Ray-Path 2	Yes	Yes
	Premium	Imperium		No	No
Occupational lens	Better	Office 2.0	IOT Digital Ray-Path 2	Yes	Yes

Icons Description



Camber
Enhance with Camber technology



IOT Digital Ray-Path 2
Calculated with IOT Digital Ray-Path 2 technology



Acu tech
Better image stability and superior comfort



Digital Optimisation
Better vision on electronic devices



Personalisation
Customized with individual parameters and position of wear measurements for each wearer



Short Corridor Availability
Available in MFH = 14 mm



Variable Inset
Correct inset position automatically calculated

ARC LENSES

ARC STEADY 2.0



PERSONALISED FREE-FORM PROGRESSIVE LENS WITH THE BEST AND MOST ADVANCED IOT TECHNOLOGIES.

The lens of the 21st century. The lens that best suits our current lifestyle, a hectic and intensive lifestyle that demands the best lens on the market.

Its technologies meet, on the one hand, the visual needs of the presbyopes who demand clear and stable vision, even when they're engaged in highly dynamic activities and, on the other hand, reduce the swim effect.

Finally, on top of that, the optics and aesthetics of Arc Steady 2.0 lenses are impossible to beat.

BENEFITS

- ✓ Superior visual acuity.
- ✓ Improved quality of vision in the near zone.
- ✓ Improved aesthetics in many prescriptions.
- ✓ Precise and comfortable focus for all working distances in any direction of gaze.
- ✓ Near elimination of peripheral blur.
- ✓ Superior visual quality for viewing digital devices.
- ✓ Higher image stability for reduced swim effect.
- ✓ Better performance in binocular vision at near and intermediate.

2022
Certificate of
Excellence

camber
With IOT Intelligence



General performance	★★★★★
Clarity and quality	★★★★★
Wide visual fields	★★★★★
Comfort	★★★★★
Visual stability	★★★★★
Adaptation	★★★★☆

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

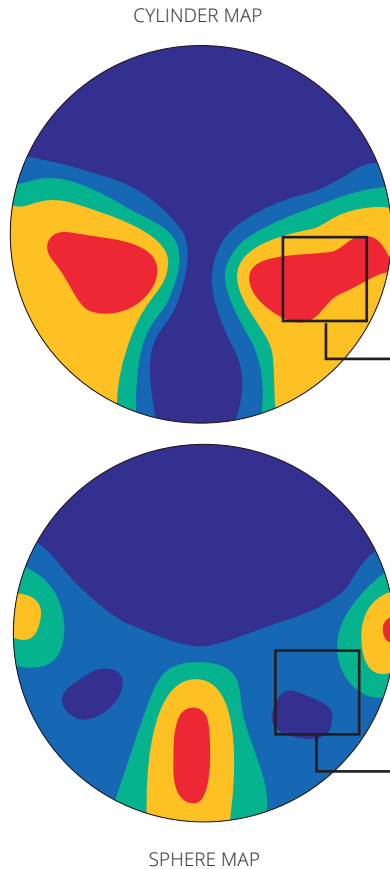
MFH (MINIMUM FITTING HEIGHT)

14 mm | 15 mm | 16 mm | 17 mm |
18 mm | 19 mm | 20 mm |

Blue Filter recommended

OTHER PROGRESSIVES

In other lenses, some lateral power errors can be found when looking at the mean power map. Those errors are strongly related to the undesired maximum astigmatism lobes which directly affect the wearer's visual comfort.

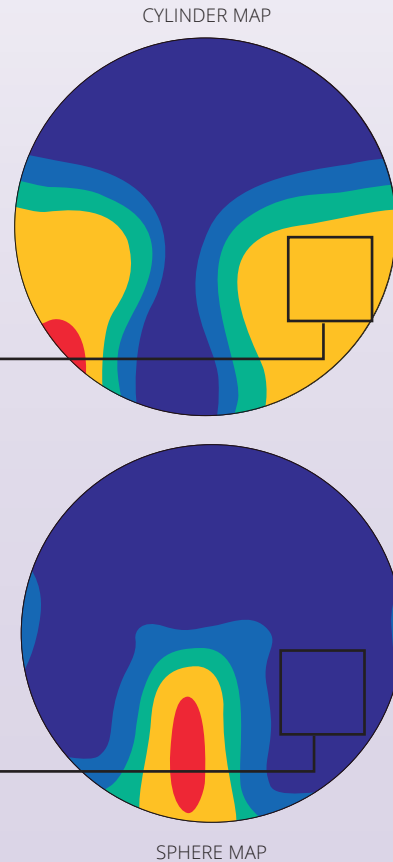


*Patent pending

ARC STEADY 2.0

The unique design Acu tech technology applied in Arc Steady 2.0 gets rid of the mean power errors at both edges of the lens. Thanks to this improvement, a significant reduction of the maximum astigmatism lobes is achieved, delivering a superior lens that provides better image stability and superior comfort.

Unique Acu tech technology* applied in Arc Steady 2.0



PROGRESSIVE LENSES

ZONE MOBILE 2.0

TARGET

Enhanced for **MOBILE** use

- ✓ Those looking for the best visual quality and want the most innovative solutions.
- ✓ Wearers looking for maximum visual comfort.
- ✓ Digitally connected wearers.
- ✓ Wearers with all types of prescription and addition powers.

UNPRECEDENTED VISUAL QUALITY THANKS TO THIS PERSONALISED FREE-FORM PROGRESSIVE LENS.

The lens for every lifestyle. Thanks to its cutting-edge technologies, the Zone Mobile 2.0 lens has not only revolutionized the concept of personalisation by considering the wearer's accommodative ability to focus on different distances but also have drastically reduced swim effect caused by lateral image distortion, resulting in **unprecedented visual quality and wide visual ranges at any distance.**

ZONE EXTEND 2.0

TARGET

Enhanced **FAR**

- ✓ Those people who consider having a premium lens and an extraordinary visual quality and comfort quite relevant.
- ✓ Experienced or novice progressive wearer who require the wider distance visual field.

THE DISTANCE VISION THEY DID NOT THEY NEEDED.

There are many lenses on the market that offer a great distance vision. However, many of them fail to supply all the deficiencies that the wearer has, so their satisfaction always ends up being negative.

Zone Extend 2.0 achieves just the opposite, since, in addition to offering excellent and panoramic distance vision, it also provides notable comfort and total freedom of lateral eye movement in distance, which **allows wearers to visualize objects, landscapes and others with high precision and clarity.**

ZONE BASE 2.0

TARGET

Enhanced for **BEGINNERS**

- ✓ 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 good intermediate vision above all else.

HIGH-QUALITY INTERMEDIATE VISION.

Today, there are many people who are looking for a premium lens that offers very easy and quick adaptation and the maximum comfort, allowing them to enjoy natural vision without problems.

Therefore, in order to satisfy these wearers' needs, Caledonian has engineered Zone Base 2.0, 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 very good intermediate vision and an extraordinary image stability.**



BENEFITS

- ✓ Precise and comfortable focusing for all working distances in any direction of gaze.
- ✓ Near elimination of peripheral blur.
- ✓ Superior visual quality when using digital devices.
- ✓ Higher image stability for reduced swim effect. Improvement of peripheral visual acuity in the distance zone.



BENEFITS

- ✓ Improved distance vision.
- ✓ Extra-large and panoramic distance visual field.
- ✓ Superior comfort and high-definition vision, especially when performing distance visual activities.
- ✓ Peripheral blur reduction.
- ✓ Higher image stability for reduced swim effect.
- ✓ Freedom of lateral eye movement in distance.
- ✓ Highly personalised lens



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.

General performance ★★★★★☆

Clarity and quality ★★★★★☆

Wide visual fields ★★★★★☆

Comfort ★★★★★★

Visual stability ★★★★★☆

Adaptation ★★★★★★

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

MFH (MINIMUM FITTING HEIGHT

14 mm | 15 mm | 16 mm | 17 mm |
18 mm | 19 mm | 20 mm

Blue Filter recommended

PROGRESSIVE LENSES

ENTRY 2.0

TARGET

Those in need of a high value, reliable solution.

- ✓ Part time eyeglass wearers.
- ✓ Wearers lower prescription and addition powers.

NON-PERSONALISED LENS WITH A PERFECT BALANCE BETWEEN DISTANCE AND NEAR VISUAL FIELDS

Free-form progressive lens that stands out for achieving high wearer satisfactions.

A free-form progressive lens that is completely different than any other in its market segment. Available in different design configurations, the Entry 2.0 lens **improves peripheral visual acuity in distance** and, thanks to the Steady Methodology, improves image stability and reduce swim effect, achieving high wearer satisfactions.

BENEFITS

- ✓ Higher image stability for reduced swim effect.
- ✓ Improvement of peripheral visual acuity in the distance zone.



General performance	★★★★☆
Clarity and quality	★★★★☆
Wide visual fields	★★★★☆
Comfort	★★★★☆
Visual stability	★★★★☆
Adaptation	★★★★☆

MFH (MINIMUM FITTING HEIGHT)

14 mm | 16 mm | 18 mm | 20 mm

ZONE DRIVE 2.0



TARGET

Drivers looking for the most innovative solutions.

- ✓ Wearers looking for greater comfort, visual quality, and safety while driving.
- ✓ Wearers who feel they see worse at night than during the day.
- ✓ Wearers with all types of prescription and addition powers.

PERSONALISED FREE-FORM PROGRESSIVE LENS ENGINEERED SPECIFICALLY FOR DRIVERS BY INCLUDING A NIGHT VISION ZONE.

Unlike some standard progressive lenses, the Zone Drive 2.0 lens is ideal for driving. This is because its power distribution is specifically adapted for it. Moreover, the night vision zone of this personalised free-form progressive lens compensates for the difference in refractive error that occurs between day and night, providing greater visual acuity and reducing eyestrain.

BENEFITS

- ✓ Improves the visual experience of the wearer when driving in daytime and nighttime conditions.
- ✓ Compensates for the effects of night myopia with a unique zone to provide better focus.
- ✓ Optimized vision for a better view of the dashboard and mirrors.
- ✓ Reduces visual fatigue symptoms when driving at night.
- ✓ Greater visual acuity for easy focus and more agile eye movement.



General performance	★★★★★
Clarity and quality	★★★★★
Wide visual fields	★★★★☆
Comfort	★★★★★
Visual stability	★★★★☆
Adaptation	★★★★☆

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

MFH (MINIMUM FITTING HEIGHT)

18 mm

SERENE 2.0



TARGET

Those looking for the most innovative solutions.

- ✓ Patients with symptoms of visual fatigue.
- ✓ Pre-presbyopes.
- ✓ Digitally connected wearers.
- ✓ Wearers with all types of prescription power.

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

Smartphones, tablets, laptops... 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.

OPTIONS

0.50, 0.75 and 1.00



General performance ★★★★★

Clarity and quality ★★★★★

Wide visual fields ★★★★★

Comfort ★★★★★

Visual stability ★★★★★

Adaptation ★★★★★

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

MFH (MINIMUM FITTING HEIGHT)

14 mm

Blue Filter recommended

HDSV 2.0

TARGET

Those looking for the most innovative solutions.

- ✓ Active wearers with demanding visual tasks.
- ✓ Digitally connected wearers.
- ✓ Wearers with all types of prescription powers.

PERSONALISED FREE-FORM SINGLE VISION LENS THAT, THANKS TO ITS STATE-OF-THE-ART DESIGN, OFFER UNPARALLELED VISUAL QUALITY.

The ideal lens to enjoy day to day, a day to day without limits that needs lenses that are up to it. HDSV 2.0 lenses were designed for modern lifestyles.

The visual quality, clarity and comfort of these premium single vision lenses are impeccable which, added to the most advanced technologies that it has, make this lens the perfect one for active young people.

BENEFITS

- ✓ Impeccable visual quality, especially for high prescriptions and wrapped frames.
- ✓ Comfortable and accurate focusing at all distances.
- ✓ Near elimination of peripheral blur.
- ✓ Superior visual quality for viewing digital devices.



General performance ★★★★★

Clarity and quality ★★★★★☆

Wide visual fields ★★★★★

Comfort ★★★★★

Visual stability ★★★★★☆

Adaptation ★★★★★

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

Blue Filter recommended

HDSV DRIVE 2.0



TARGET

- ✓ Non-presbyopic drivers looking for the most innovative solutions.
- ✓ Wearers looking for more comfort, visual quality, and safety while driving.
- ✓ Wearers who feel they see worse at night than during the day.
- ✓ Wearers with all types of prescription powers.

PERSONALISED FREE-FORM SINGLE VISION THAT, THANKS TO ITS NIGHT VISION ZONE, ALLOWS A COMFORTABLE AND SAFE DRIVING.

The best personalised free-form single vision for non-presbyopic drivers who demand excellent visual quality for driving at any time. Besides, HDSV Drive 2.0 lenses include a night vision zone that compensates for the difference in refractive error that occurs between day and night translating, all this, into an impeccable visual acuity and less eyestrain.

BENEFITS

- ✓ Impeccable visual quality, especially for high prescriptions and wrapped frames.
- ✓ Improves the visual experience of the wearer when driving in daytime and nighttime conditions.
- ✓ Compensates for the effects of night myopia with a unique zone to provide better focus.
- ✓ Reduces visual fatigue symptoms when driving at night.
- ✓ Greater visual acuity for easy focus and more agile eye movement.
- ✓ Near elimination of peripheral blur.
- ✓ Optimized vision for a better view of the dashboard and mirrors.
- ✓ Clear vision from center to edge ensuring a comfortable lens with no limitations regardless of the prescription or frame selected.



General performance ★★★★★

Clarity and quality ★★★★★

Wide visual fields ★★★★★

Comfort ★★★★★

Visual stability ★★★★★☆

Adaptation ★★★★★

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

OFFICE 2.0

TARGET

Those who spend extended periods of time viewing objects in near and intermediate distances.

- ✓ New presbyopes.
- ✓ Remote workers.
- ✓ Wearers with all types of prescription and addition powers.

Do not drive while using Office 2.0 lenses.

GREAT PERFORMANCE IN INTERMEDIATE AND NEAR WITH THIS PERSONALISED FREE-FORM LENS.

Remote work is now more real than ever, changing the way we work. Now, more and more presbyopic professionals (i.e. teachers, programmers, architects) spend a large part of the day using their intermediate and near vision.

The Office 2.0 has been especially engineered for these kinds of wearers since **it adjusts to wearers' needs and offer the best vision for both visual zones.**

BENEFITS

- ✓ Maximum intermediate and near field of vision.
- ✓ Improved postural ergonomics avoiding unnecessary head movements
- ✓ Comfortable and precise focusing, especially when using electronic devices.
- ✓ Excellent dynamic vision, easy transition between near and intermediate visual fields
- ✓ Immediate adaptation.
- ✓ Elimination of peripheral blur.
- ✓ Superior visual quality when using digital devices.

OPTIONS

1.3m | 2m | 4m



General performance	★★★★☆
Clarity and quality	★★★★★
Wide visual fields	★★★★☆
Comfort	★★★★★
Visual stability	★★★★☆
Adaptation	★★★★☆

Personalisation PARAMETERS

- Pantoscopic angle
- Wrap angle
- Back vertex distance
- Near working distance

MFH (MINIMUM FITTING HEIGHT)

14 mm | 18 mm

Blue Filter recommended

imperium.

Myopia Management Lenses

TARGET

- ✓ Young people between 5 and 16 years old who are myopic and want to slow its progression.
- ✓ Children aged 5 with a cycloplegic spherical equivalent of less than +0.75D.

THE BEST OPTICAL SOLUTION FOR PARENTS WHO WANT TO SLOW DOWN THEIR CHILD'S MYOPIA.

Imperium is a state-of-the-art lens that combines science and expertise to protect children's visual health effectively and safely. To do this, Imperium corrects and ultimately controls the progression of myopia. In this way, we reduce the chances of suffering from eye diseases such as myopic maculopathy, which is the most common and serious sight-threatening complication of myopia

BENEFITS

- ✓ Safe and effective lens.
- ✓ Natural vision.
- ✓ It corrects and slows down the progression of myopia.
- ✓ Improved well-being.
- ✓ Great acceptance and easy adaptation.
- ✓ Minimally invasive optical solution.
- ✓ Less likely to suffer from eye diseases.



General performance ★★★★★

Clarity and quality ★★★★★

Wide visual fields ★★★★★

Comfort ★★★★★

Visual stability ★★★★★

Adaptation ★★★★★

Personalisation PARAMETERS

- Monocular PD
- Height above Rim
- A Measurement
- B Measurement

CALEDONIAN OPTICAL APPROVED QUALITY



Over 150 years technical
experience



Bespoke lens design



Service level guarantees



Adjustments for enhanced



Dedicated customer service
and business development
support



Visual experience



Latest advanced
digital technology



Optimal frame fitting
and no scratch guarantee



World-leading state-of-the-art
equipment



UK based Independent
Laboratory



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