FREE FORM LENSES
MANUFACTURED IN THE UK
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Our Technologies

Camber™ Steady Technology

Camber™ Steady 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.

Digital Ray-Path® Technology

Digital Ray-Path® is the most advanced technology to make digital lenses. The critical differences are realized when calculating the back surface. The result of this innovative calculation method is a progressive lens that is personalized and provides better vision in all zones of the lens.
Surface Power® Technology

Surface Power® is our entry-level digital surfacing technology. Progressive lenses made with this technology have the progressive surface on the back side of the lens, and a simple curve, on the front side. The progressive surface is calculated using a pure geometrical method with the advantages of the digital process, like flexible designs, variable corridor lengths and insets.

Smart Add Technology

Smart Add is a technology specifically designed to improve comfort when viewing electronic devices (smartphones, tablets, computers, etc.). The intermediate and near visual regions have been optimized for agile focus with less effort. The eyes are more relaxed, eyestrain disappears and the user’s posture is more ergonomic.

Surface Power® progressive designs transfer the progressive design to the back surface of the lens to allow free-form processing.

Smart Add technology improves lens performance against screen devices, optimizing the surface for better dynamic vision.
Personalization Parameters

Available for lenses with Digital Ray-Path®

**Prescription & Addition**

Digital Ray-Path® calculates the power that the user will truly perceive once the lenses are fitted on the frame.

**Monocular PD**

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

**Pupilar Heights “or minimum fitting height (MFH)”**

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

**Frame Dimensions**

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

*Personalization parameters used for the calculation are specific for each individual patient. Defaults parameters can be used if the real ones are not available*
Personalization Parameters

Those parameters represent the identity of each wearer and make it possible to create unique lenses.

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.

Wrap Angle
Frame curvature.

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

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

Those parameters represent the identity of each wearer and make it possible to create unique lenses.
## Our lenses

### Lens designs

<table>
<thead>
<tr>
<th>Product name</th>
<th>Calculation technology</th>
<th>Compensated power</th>
<th>Personalization parameters (optional)</th>
<th>Product description</th>
<th>MFH (Minimum Fitting Height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>optiFORM DUAL - 2</td>
<td>Camber Steady</td>
<td>yes</td>
<td>yes</td>
<td>Premium personalized lens with quality of vision and visual fields</td>
<td>14, 16, 18 &amp; 20 mm</td>
</tr>
<tr>
<td>optiFORM ADVANCED - 2</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Fully personalized lens for a general use. Great visual fields for distance and near vision</td>
<td>11, 13, 15, 17 &amp; 19 mm</td>
</tr>
<tr>
<td>optiFORM FIRST</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Extra soft progressive lens, fast adaptation and visual comfort</td>
<td>14, 16, 18 &amp; 20 mm</td>
</tr>
<tr>
<td>OptiFORM EDS</td>
<td>Surface Power®</td>
<td>no</td>
<td>no</td>
<td>A non personalized lens with good visual fields</td>
<td>14, 16, 18 &amp; 20 mm</td>
</tr>
<tr>
<td>optiFORM MOBILE</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Designed exclusively for smartphone and tablet users</td>
<td>14, 16, 18 &amp; 20 mm</td>
</tr>
<tr>
<td>optiFORM OFFICE</td>
<td>Digital Ray-Path®</td>
<td>no</td>
<td>yes</td>
<td>An office lens with the widest near and intermediate visual fields</td>
<td>14 &amp; 18 mm</td>
</tr>
<tr>
<td>optiFORM SMART</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Ideal for wearers who spend a lot of time at working in the near visual distance</td>
<td>14 mm</td>
</tr>
<tr>
<td>optiFORM DRIVE inmotion</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>An appropriate progressive lens for driving</td>
<td>18 mm</td>
</tr>
<tr>
<td>optiFORM SPORT</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Improving dynamic and distance vision</td>
<td>16 &amp; 18 mm</td>
</tr>
<tr>
<td>optiFORM SPORTHIN</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Thinner progressive and single vision lenses</td>
<td>16 &amp; 18 mm</td>
</tr>
<tr>
<td>optiFORM DIB</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>Fully personalized and more cosmetically appealing solution that eliminates “image jump”</td>
<td>15 mm</td>
</tr>
<tr>
<td>optiMEYES</td>
<td>Digital Ray-Path®</td>
<td>yes</td>
<td>yes</td>
<td>A fully personalized lens that improves vision in all gaze directions</td>
<td>-    -</td>
</tr>
</tbody>
</table>
Lens Portfolio
optiFORM DUAL - 2 has been developed by applying the latest innovation in lens design methodology which utilizes a strict control of the spherical power. As a result, the spherical power errors at the periphery tends to be zero, significantly reducing the lateral distortion and swim effect.

optiFORM DUAL – 2 lens provides wearers better peripheral vision giving the benefit of superior image stability, even in dynamic conditions while also enjoying maximized visual fields for all distances.
Advantages

- Fully personalized lens for an all purpose use.
- Expanded visual fields for all areas.
- Lateral aberration minimized for a better periferical vision.
- Swim effect minimization.
- Better image stability, even in dynamic conditions.
- Clear vision in every gaze direction.
- Variable inset to improve binocular vision.
- Frame shape personalization improves thickness.
- Available in different minimum fitting heights for adapting to any frame.

Target

- 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.

Parameters

- ✔ Vertex distance
- ✔ Near working distance
- ✔ Pantoscopic angle
- ✔ Wrapping angle
- ✔ Monocular PD
- ✔ Height above Rim
- ✔ A Measurement
- ✔ B Measurement

⚠️ If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Perfect balance between distance and near visual fields

Design Details

Calculated by Digital Ray-Path®, optiFORM ADVANCED - 2 is a fully personalized progressive lens which improves wearers visual experienced for all gaze directions. The lens design architecture has been developed to offer patients a wide field of vision, for distance and near.

All personalization parameters (if available) take into account the need to compensate the back surface of the lens during the lens calculation. Doing so, guarantees the best lens for each individual wearer.

MFH
[Minimum Fitting Height]

11mm | 13mm | 15mm
17mm | 19mm
Advantages

- Wide near and far visual zones with perfect balance between near and distance.
- Comfort and high precision together in the same lens.
- Available in five progression lengths.
- High precision and high personalization due to Digital Ray-Path® technology.
- Clear vision in every gaze direction.
- Oblique astigmatism minimized.
- Frame shape personalization available.

Target

- Ideal for demanding customers.
- A Personalized Progressive Lens with high balanced performance.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Design Details

optiFORM FIRST is an extra soft general purpose progressive lens design specially developed for first time progressive lens wearers.

This design offers minimum lateral astigmatism, delivering more natural vision, while at the same time preserving good visual fields for distance, intermediate and near.

optiFORM FIRST facilitates an immediate adaptation while offering outstanding vision in all distances. It’s also an ideal lens for those who have had difficulty adapting to other progressive lenses.

MFH
[Minimum Fitting Height]

14mm | 16mm | 18mm | 20mm
Advantages

• Extra soft, personalized progressive lens.
• Greater freedom and more natural vision in lateral gaze directions.
• Good visual fields to all distances.
• Available in four progression lengths.
• High precision and high personalization due to Digital Ray-Path® technology.
• Clear vision in every gaze direction.
• Oblique astigmatism minimized.
• Variable Inset: Automatic and manual.
• Frame shape personalization available.

Target

• Ideal for first time progressive lens wearers and non-adapted patients
• Premium all-Purpose Personalized Progressive Lens with minimum lateral astigmatism.

Parameters

✓ Vertex distance
✓ Near working distance
✓ Pantoscopic angle
✓ Wrapping angle
✓ Monocular PD
✓ Height above Rim
✓ A Measurement
✓ B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
A non-compensated lens with good balance between distance and near visual fields

Design Details

optiFORM EDS design well balanced between far and near fields. The technology used for calculating the surface of this basic progressive is Surface Power®. This technology guarantees that measured power will be the same as the prescription, and this makes this lens easy to be understood and sold by all kinds of practitioners.

optiFORM EDS power distribution has been designed to make a standard lens which will provide users with a balanced design with good performance in any scenario, wide near and also wide far mixed with a good corridor.

MFH

[Minimum Fitting Height]

14mm | 16mm | 18mm | 20mm
Advantages

- Well balanced basic lens.
- Wide near and far.
- Good performance for standard use.
- Available in four progression lengths.
- Surface Power® calculation makes an easy-to-understand lens for the practitioner.
- Frame shape personalization available.

Target

- Ideal for expert users who are looking for an economic solution.
- Non-compensated design for a general use with generous visual areas for near and distance.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement
Designed exclusively for smartphone and tablet users

Design Details

The introduction of electronic devices such as smartphones and tablets in our lives has led to an increase in the frequency with which we find the need to switch between near and distance vision. This means we look at things in a new way, using a visual strategy that requires lenses to allow for switching between near and distance vision quickly and comfortably.

Developed specifically for users of electronic devices, this design provides wide visual fields for both near and distance vision combined with a smooth transition which facilitates switching between them. The design also includes a shorter progression profile in order to make the transition from distance to near vision even easier.

MFH
[Minimum Fitting Height]

14mm | 16mm | 18mm | 20mm
Advantages

• Developed specifically for users of electronic devices.
• Wide visual fields for both near and distance vision.
• Comfort and high definition thanks to Digital Ray-Path® technology.
• Dynamic vision thanks to Smart Add.
• Available in four progression lengths.
• High quality vision in all viewing directions.
• Reduced oblique astigmatism.
• Variable inset: Automatic and manual.
• Frame shape optimization available.

Target

• Premium personalized progressive lens for users of electronic devices.
• Ideal for progressive lens wearers ages 40 and over, both experts and novices.

Parameters

✓ Vertex distance
✓ Near working distance
✓ Pantoscopic angle
✓ Wrapping angle
✓ Monocular PD
✓ Height above Rim
✓ A Measurement
✓ B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
An office lens with the widest near and intermediate visual fields

Design Details

optiFORM OFFICE is an occupational lens for intermediate and near distances that really brings visual comfort to the user. The step between fields is more dynamic offering greater agility to change the focus to different distances, especially when working with digital displays.

Available in different distances making it the perfect choice for every office environment.

Select Activity 1.3 m  
Allows clear vision from near to 1.3 m

Select Activity 2 m  
Allows clear vision from near to 2 m

Select Activity 4 m  
Allows clear vision from near to 4 m

Select Activity 6 m  
Allows clear vision from near to 6 m

MFH  
[Minimum Fitting Height]

14mm | 18mm

Caution: Do not drive with these lenses because they do not provide distance vision
Advantages

- Extremely wide near vision region.
- Dynamic vision thanks to Smart Add.
- Very soft design that eliminates swim effect and perceived lateral distortion.
- No adaptation issues.
- Clear vision from reading distance up to 6 meters.
- Many available degressions for adapting to each user’s needs.
- Frame shape personalization available.

Target

- Ideal for presbyopes who spend a lot of time working at near and intermediate working distances such as office workers, chefs, painters, musicians, etc.
- The most adapted lens for office work for intermediate and near vision.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement
An innovative personalized lens, which reduces visual fatigue

Design Details

Let your eyes rest when reading, working with computers or playing video games. optiFORM SMART is an anti-fatigue design that has been calculated to reduce visual fatigue produced by a continuous accommodating effort. When working constantly at near distances, muscles that surround the crystalline lens become tired, and this may result in visual fatigue. The most common symptoms are eye redness, pain, dryness or even headaches.

optiFORM SMART reduces the weakening process of the mentioned muscles because it provides the wearer with a small touch of power in the bottom part of the lens.

optiFORM SMART is available in 0.50D, 0.75D and 1.00D.

MFH
[Minimum Fitting Height]

14mm

* Ideal for single vision wearers between 18-45 who need better near vision and have visual fatigue symptoms.
Advantages

- Reduce visual fatigue
- Three additions: 0.50D, 0.75D and 1.00D
- High quality features in the near zone
- High precision and high personalization due to Digital Ray-Path® technology
- Clear vision in every gaze direction
- Oblique astigmatism reduced
- Variable Inset: Automatic and manual
- Frame shape personalization available

Target

- Ideal for wearers aged 18 to 45 who spend a lot of time at working in the near visual distance and have visual fatigue symptoms.
- An exclusive anti-fatigue designs.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Finally, an appropriate progressive lens for driving

Design Details

Driving is a task that has very specific optical requirements, the position of the dashboard, external and internal mirrors and the strong distance jump between looking at the road or looking inside the car makes this scenario very particular. optiFORM DRIVE inMotion has been developed to adapt the lens for this specific task. Distance vision has been enhanced to provide the wearer with a perfect view of the road.

**SINGLE VISION IS NOW AVAILABLE:** a new single vision lens ideal for driving. inMotion SV completes inMotion lens family. inMotion lens family brings you the opportunity to prescribe a sophisticated and differentiator optical solution for all your driver patients.

**MFH** [Minimum Fitting Height] | 18 mm
Advantages

- Wide clear area of binocular vision in far distance.
- Adjusted special power distribution for driving.
- Wide corridor and soft transitions for comfortable driving.
- Low values of unwanted astigmatism to improve dynamic vision.
- High precision and high personalization due to Digital Ray-Path® technology.
- Clear vision in every gaze direction.
- Oblique astigmatism reduced.
- Frame shape personalization available.

Target

- Ideal for drivers or wearers who spend lots of time using the far visual field.
- A compensated progressive lens only for driving.

Parameters

- ✓ Vertex distance
- ✓ Near working distance
- ✓ Pantoscopic angle
- ✓ Wrapping angle
- ✓ Monocular PD
- ✓ Height above Rim
- ✓ A Measurement
- ✓ B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Improving dynamic and distance vision

Design Details

optiFORM SPORT has been engineered for the particular visual needs that arise in the practice of sports. The area of near vision is in line with a sport design, conceived for focusing on objects slightly away from the user. This will make it effective and comfortable for the perception of objects such as a clock, a sportmeters, the speedometer of a bike, a compass...

Typical frames for sports have a large size and steep base curves. optiFORM SPORT lenses are compensating these effects thanks to Digital Ray-Path® method, and are compatible with any sport frame.

**Single Vision design** providing superb acuity in sport frames. The best single vision totally compensated for wrap or sport frames.

**SPORT PAL**

**SPORT SV**

**MFH** [Minimum Fitting Height] | 16mm, 18 mm
Advantages

• Wide clear area of binocular vision in far distance.
• Wide corridor provides a comfortable intermediate vision.
• Adjusted near vision for a clear view of the sports equipment (maps, compass...).
• Ergonomic position of the head and body during sports activity.
• Minimize swim effects.
• High precision and high personalization due to Digital Ray-Path® technology.
• Clear vision in every gaze direction.
• Variable Inset: Automatic and manual
• Frame shape personalization available.

Target

• Ideal for user who needs a progressive lens special for outdoor activities.
• A compensated progressive lens ideal for various sporting activities.

Parameters

✓ Vertex distance
✓ Near working distance
✓ Pantoscopic angle
✓ Wrapping angle
✓ Monocular PD
✓ Height above Rim
✓ A Measurement
✓ B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Thinner progressive and single vision lenses for any wrap frame

Design Details

Wearers may be limited in their sport frame choice, sport frames require large lenses and have high wrapping angles both of which result in a thicker lens than with regular frames, which is not aesthetically pleasing… OptiFORM Sporthin PAL and SV are especially engineered for outdoor activities. This design offers a wide distance visual field, a long corridor that reduces the swim effect, and an acceptable near visual field for checking cell phones or reading a map while walking, playing golf, biking, etc.

The OptiFORM Sporthin family has two unique benefits:
- Reduces lens thickness up to 34% by using a unique lenticular effect that maximizes the angle of clear vision without significantly increasing lens thickness.
- Enlargement of the power range for sport frames, allowing labs to offer high minus or plus prescriptions with curved sport frames.

SPORTHIN PAL

SPORTHIN SV

MFH [Minimum Fitting Height] | 16mm, 18mm
Advantages

- Up to a 34% thinner lenses.
- Wide corridor provides a comfortable intermediate vision.
- Adjusted near vision for a clear view of the sports equipment (maps, compass...)
- Ergonomic position of the head and body during sports activity.
- Minimize swim effects.
- High precision and high personalization due to Digital Ray-Path® technology.
- Clear vision in every gaze direction.
- Compatible with any base curve and material.
- Frame shape personalization available.

Target

- Ideal for those who want to wear sport frames for biking, running, golfing... but are limited due to high prescriptions.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement

Pre-configuration SV option

- Vertex distance: 14 mm
- Pantoscopic angle: 8°
- Wrapping angle: 15°

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
OptiFORM DIB is a compensated design made to focus with two different viewing areas. The top of the lens is for distance vision and the curved segment at the bottom is for reading. It offers wide fields of clear vision for both distances. Because there is no power progression a sudden ‘jump’ between the two optical zones will be noticed.

There are no lateral lobes of unwanted astigmatism because of not having a power progression; this provides wearers with comfortable vision and no distortion or swim effect. The diameter of the add segment is available in 28 mm and 40 mm with a transition area of 2.5 mm. The distance between the pupil and the segment is 3 mm.
Advantages

• High quality for distance and near vision.
• Wide distance and near visual fields.
• Clear vision in every gaze direction, no oblique astigmatism.
• Frame shape personalization available.

Segment Diameters

• 28 mm
• 40 mm

Target

• Ideal for wearers who are looking for a digital free-form bifocal. Personalized free-form bifocal lens with clarity in the distance and near zone.

Parameters

- Vertex distance
- Near working distance
- Pantoscopic angle
- Wrapping angle
- Monocular PD
- Height above Rim
- A Measurement
- B Measurement

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
The thinner and flatter single vision lens

Design Details

Our double sided aspheric single vision prescription lens has a back surface asphericity generated by free form specific design which is optimised for the asphericity of the front surface. Aesthete™ 1.74 can be 15% thinner and flatter by 0.5 - 1 dioptre compared to other lenses.

Optimisation method provides additional benefit to the optical performance of the resulting lens especially for the peripheral vision and dramatically improves the lens aesthetic appearance. To produce the Aesthete™ lens optical laboratories can procure Younger 1.74 Aspheric single vision semi-finished lenses and surface them with the free form generator utilizing Aesthete lens design by IOT.
Advantages

• Premium double sided aspheric.
• Free form exclusive Optimum Coating design.
• Flatter front curve.
• Thickness reduced by 15%.
• Reduced weight for some powers.
• More cosmetic appeal.

Target

• Ideal wearers with high prescriptions who are looking for a premium single vision lens that offers the best esthetic.

Parameters

✓ Vertex distance
✓ Pantoscopic angle
✓ Wrapping angle
✓ Height above Rim
✓ Monocular PD

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Visual performance incomparable with any other Single Vision lens

**Design Details**

optiMEYES represents the latest solution that delivers high visual definition all over the lens. Engineered with Digital Ray-Path® Technology, it is fully compensated in every gaze direction, while always taking into consideration how the eye visually moves.

Wearer gets a completely personalized lens that eliminates oblique aberrations. The result is a lens with excellent clarity and comfort regardless of the prescription or type of frame chosen.
Advantages

- Total personalization.
- Maximum optical quality for any prescription.
- Compatible with any material and base curve.
- Thinner and lighter lenses.
- High precision and high personalization due to Digital Ray-Path® technology.
- Clear vision in every gaze direction.
- Oblique astigmatism reduced.
- Possibility to input the frame shape for accurate calculation.
- Frame shape personalization available.

Target

- Ideal for everyone who need single vision correction. Specially beneficial for high minus and plus prescriptions or large astigmatic correction.
- The best Single Vision totally compensated for each specific user.

Parameters

- Vertex distance
- Pantoscopic angle
- Wrapping angle
- Height above Rim
- Monocular PD

If personal parameters are not available, the calculation takes into account default parameters to optimise the lens.
Centration Chart
Minimum fitting height 14, 16, 18 & 20mm

HD2

PROGRESSIVE LENS

optiFORM DUAL - 2  optiFORM FIRST  optiFORM EDS  optiFORM MOBILE
Minimum fitting height 11, 13, 15, 17 & 19mm
Minimum fitting height 14 & 18mm
Minimum fitting height 18mm

OUTDOOR LENS

optiFORM DRIVE inmotion
Minimum fitting height 16 & 18mm
Minimum fitting height 18mm
Minimum fitting height 14mm

28mm
Minimum fitting height 14mm

40mm

optiFORM DIB
Optimum RX Lens Specialists,
5 Newgate, White Lund Ind. Estate,
Morecambe, Lancashire LA3 3PT

T  +44 1524 541540
F  +44 843 515 8288
E  info@optimumcoatings.co.uk
W  optimumcoatings.co.uk