

# Integrity

## *Digital Lens Designs*

**LARAMY-K OPTICAL**

AN UNCUT ABOVE THE REST

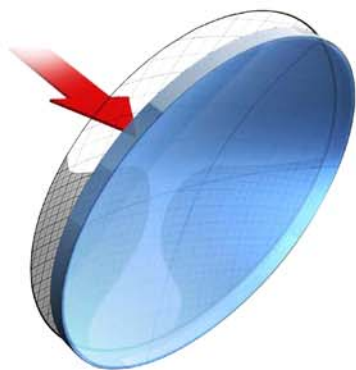




# Technology Evolution

## Conventional Progressive Lenses

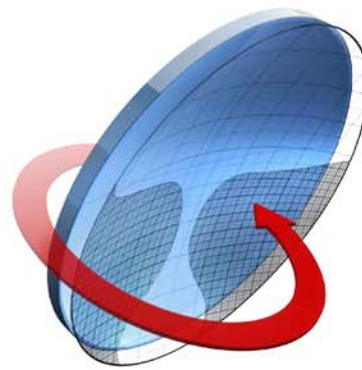
A conventional progressive lens is made using a progressive blank where the progressive surface is molded on the front side. A simple curve is cut on the back side to provide lens with the required power. This production method to manufacture lenses has important limitations. The progressive surface of the blank is available with limited options and it is not possible to create a truly personalized lens.



Conventional progressive has progressive surface distributed on the front side of the lens

## SURFACE POWER Non-Compensated

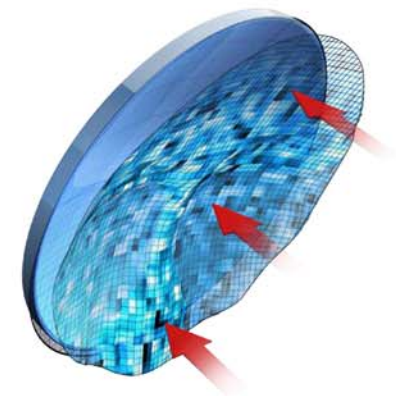
Surface Power® technology is only available with digital surfacing equipment. Progressive lenses made with this technology are characterized as having the progressive surface on the back side and a simple spherical curve on the front side. The progressive surface is calculated using a pure geometric method that results in lenses with similar optical performance as a conventional progressive lens, but with the advantages of the digital process and the most modern calculation techniques.



Surface power progressive design transfers progressive design to the back surface of the lens to accommodate free-form processing.

## DIGITAL RAY-PATH Compensated

Digital Ray-Path® technology is also only available when using digital surfacing technology. The important difference appears when calculating the back surface. Instead of using a pure geometrical method, Digital Ray-Path® technology is based on an advanced three-dimensional calculation model that takes into account the real position of the lens and the natural movements of the human eye. The result of this innovative calculation method is a completely personalized progressive lens that provides the wearer with superior accuracy, power and comfort.



Digital Ray-Path® technology perfects the progressive design model and adjusts it according to individual demands of any wearer.

# Integrity Design Portfolio

Family	Name	Lifestyle Application	Real Parameters (Full Personalization)	Compensated Power	Camber	Lenticularization	Digital Slab-Off	MFH (Minimum fitting height)
ULTIMATE	Rogue [Ne]	Near	yes	yes	coming soon	yes	yes	14, 15, 16 mm
	Resolve [Ba]	Balanced	yes	yes	yes	yes	yes	14, 15, 16 mm
	Rebel [Di]	Distance	yes	yes	coming soon	yes	yes	14, 15, 16 mm
	Recruit [Nw]	New Wearer	yes	yes	coming soon	yes	yes	16, 17 mm
	Revise [Xs]	Xtra-Short	yes	yes	coming soon	yes	yes	10, 11, 12, 13 mm
UNIVERSAL	Rogue [Ne]	Near	no	yes		yes	yes	14, 16 mm
	Resolve [Ba]	Balanced	no	yes		yes	yes	14, 16 mm
	Rebel [Di]	Distance	no	yes		yes	yes	14, 16 mm
	Recruit [Nw]	New Wearer	no	yes		yes	yes	16, 18 mm
EVERYDAY	Review[Ba]	Balanced	no	no		yes	yes	14, 16 mm
	Renegade [Di]	Distance	no	no		yes	yes	14, 16 mm
	Rookie [Nw]	New Wearer	no	no		yes	yes	16, 18 mm
SPECIALTY	Reboot [Cp]	Computer	no	no		yes	yes	14, 18 mm
	Relieve [Af]	Anti-Fatigue	yes	yes		yes	yes	14 mm
	Rush [Sp] Road	Sport	yes	yes		yes	yes	16, 18 mm
	Trip [Dr]	Drive	yes	yes		yes	yes	18 mm
	Radical [Sv]	Single Vision	yes	yes		yes	yes	-

## REAL POSITION OF WEAR PARAMETERS FULL PERSONALIZATION

PANTO: Pantoscopic Angle  
ZTILT: Wrapping Angle  
BVD: Back Vertex Distance

## COMPENSATED POWER

Thanks to a simulation of virtual rays, the power of the lens is corrected and compensated during the calculation to minimize the oblique aberrations in all gaze directions. As a result the final lens is fully compensated and the power of the lens checked with the lensometer is always the compensated results.

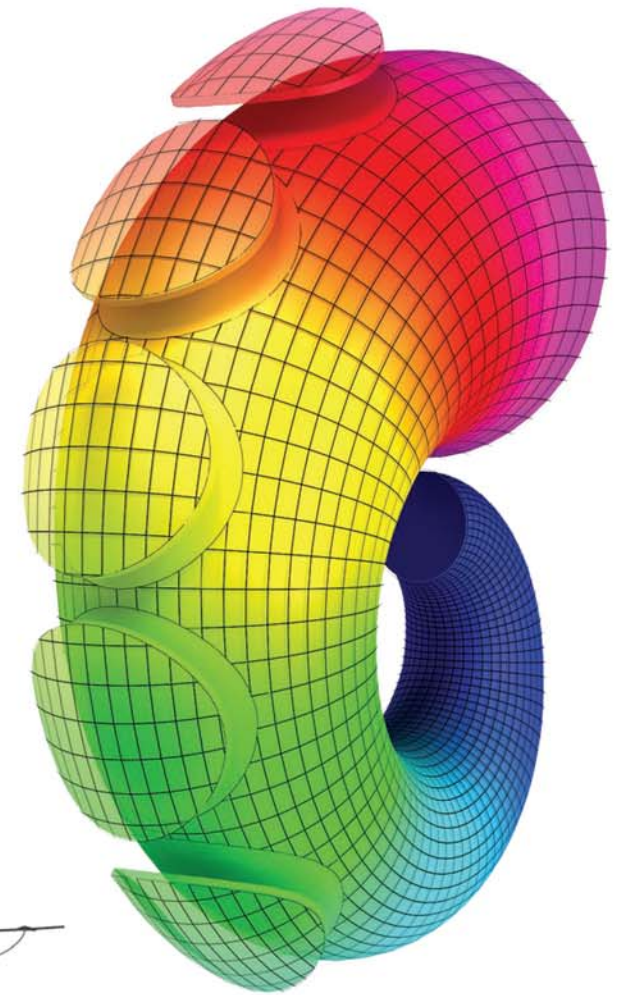




# Integrity

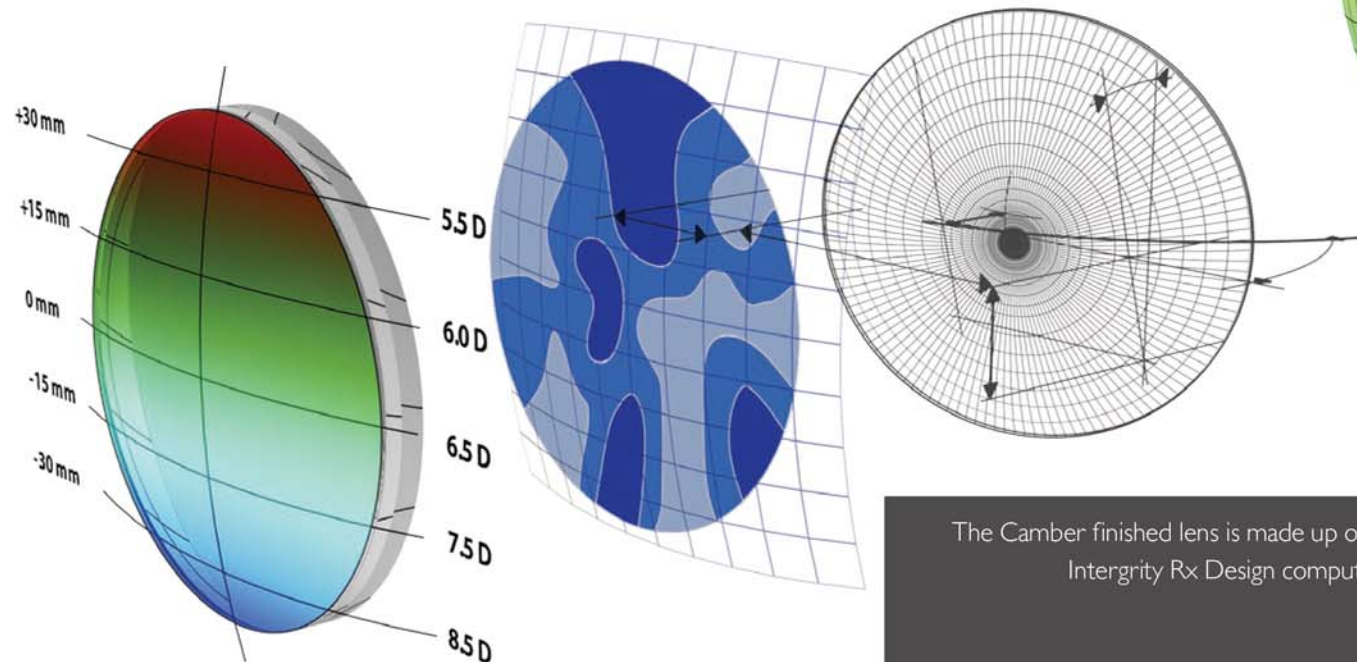
## Camber

As the power changes across a progressive lens, so does the ideal base curve. Until now, the base curve remained constant across the entire front surface of the lens. Camber technology from Younger Optics changes all that. Camber Technology allows a complex, continuously changing, front curve to be combined with a personalized Integrity digital back surface, resulting in improved performance, better cosmetics, and increased Rx range. Camber uses an ever increasing front curve, resembling an elephant's trunk, within a selected range, to match the customer's Rx.



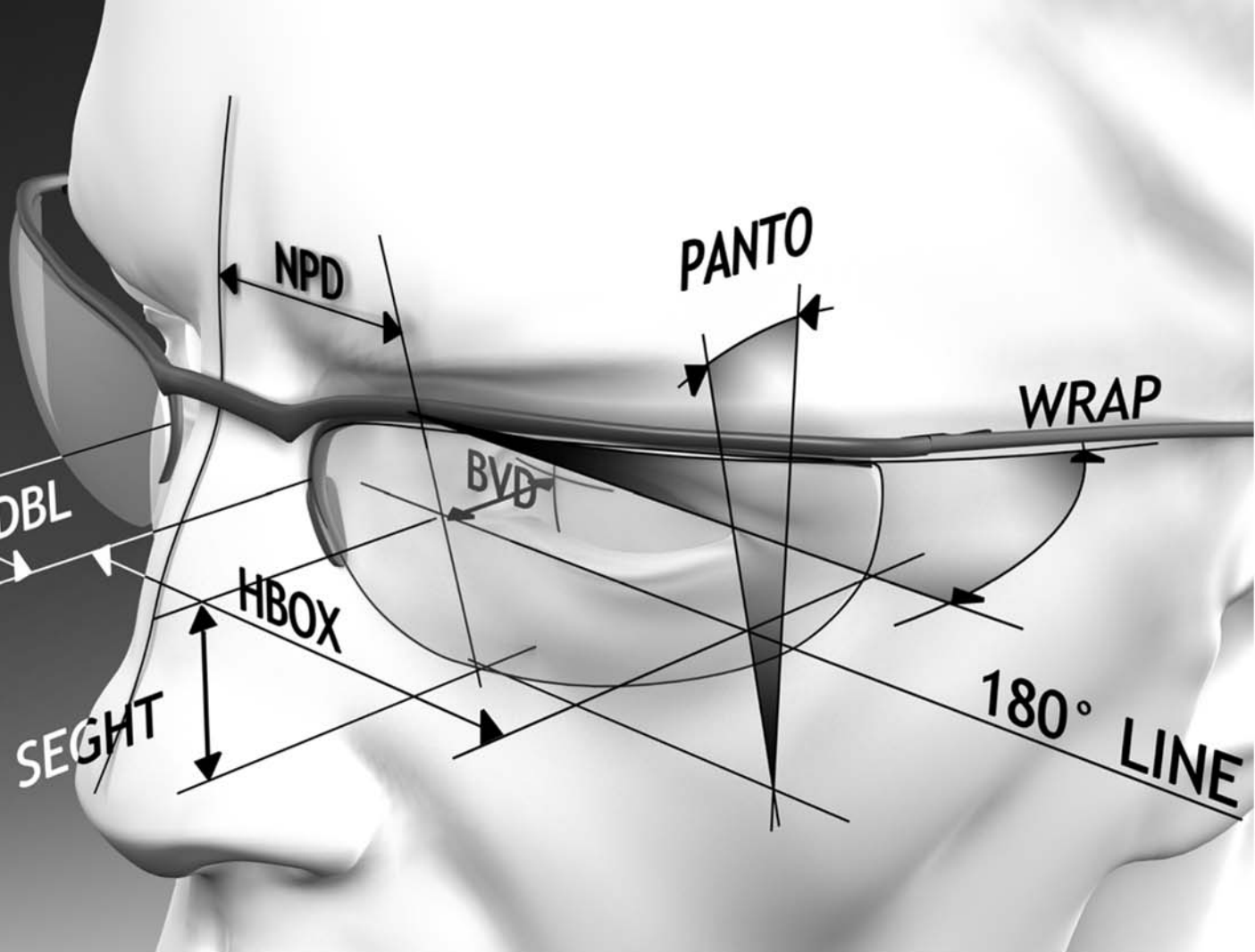
VARIABLE BASE CURVE

*The radius of the blank continually decreases from top to bottom.*



The Camber finished lens is made up of three essential components: The Camber blank, the Integrity Rx Design computation, and the individual wearer's custom parameters

By utilizing the power of complex curves on both surfaces of the lens, Camber seems to offer something for everyone. Better optics, cosmetics, improved near and widened distance zones —Camber is truly a breakthrough for the laboratory, eyecare professional, and most importantly, the patient.



REAL  
PARAMETERS  
FULL PERSONALIZATION

## Icons Description & Definition

Digital Ray-Path®



Calculated with Digital Ray-Path® technology

Personalization



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

Multiple Corridor



Available in several fitting heights

Short Corridor Availability



Available in MFH = 14 mm or less

Variable Inset



Correct inset position automatically calculated

Wrap Available



Sport frames, required wrap angle or ZTILT



# Ultimate

- Fully personalized
- Position of Wear parameters required
- Best optical performance
- Highest visual acuity all gaze directions



# Universal

- Compensated design
- Default Position of Wear parameters
- Good visual acuity for all gaze directions



# Basic

- Non-compensated design
- No Position of Wear parameters
- Entry-level for digital progressive lenses



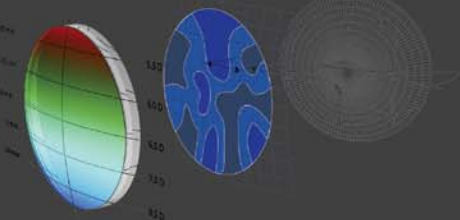
# Specialty

- Lens designs for specific activities
- Includes occupational lenses, both for indoor and outdoor environments and a fully personalized single vision




# Camber

- Same features as the Ultimate with the added benefit of a variable front curve to provide even wider, clearer, and thinner near and intermediate zones.



# Integrity Ultimate

	Rogue [Ne] Near	Resolve [Ba] Balanced	Rebel [Di] Distance	Recruit [Nw] New Wearer	Revise [XS] Xtra Short
Description	Personalized Progressive Lens				
Strengths	Near vision enhanced	Balanced between near and distance	Distance vision enhanced	Soft design Smooth transition zone	Exclusive for narrow frames
Far	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Near	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
Comfort	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
					
MFH's available	14, 15, 16 mm	14, 15, 16 mm	14, 15, 16 mm	16, 17 mm	10, 11, 12 & 13 mm

Integrity Ultimate creates completely adapted lenses for each wearer. Prescription, face parameters and frame data of the user are taken into account to generate a personalized surface that will adapt uniquely to this patient and frame. The lens calculated point by point to guarantee the best possible quality and performance.

Ultimate progressive lens designs produce the most sophisticated possibilities of personalization and best optical performance. Ultimate Designs are more than lens designs. They are fully compensated lenses that adapt to each unique wearer's lifestyle.



Rogue [Ne]



Fully personalized design specially created for experienced progressive wearers who want the best near vision. Superior near vision and comfort for reading or model-making.

Resolve [Ba]



Fully personalized design with a balance between the distance and near vision. Highly recommended for experienced and demanding progressive wearers, looking for an all-purpose progressive lens with generous visual fields at all distances and a comfortable lens.

Rebel [Di]



Fully personalized design specially developed for experienced progressive wearers who want the best distance vision. Panoramic high performance distance vision for traveling or enjoying landscapes.

Recruit [Nw]



Fully personalized design for novice progressive wearers. Smooth soft transition zone between distance and near vision.

Revise [Xs]



Fully personalized design available in different MFH's, allowing easy adaptation to narrow frames. Specific for those wearers who need a very short corridor length.

Camber [Ba]



Fully personalized design with a balance between the distance and near vision. Variable curve front widens the distortion-free areas of the intermediate and near.



# Integrity

# Universal

	Rogue [Ne] Near	Resolve [Ba] Balanced	Rebel [Di] Distance	Recruit [Nw] New Wearer
Description	Semi-Personalized Progressive Lens			
Strengths	Near vision enhanced	Balanced between near and distance	Distance vision enhanced	Soft design Smooth transition zone
Far	★★★★★	★★★★★	★★★★★	★★★★★
Near	★★★★★	★★★★★	★★★★★	★★★★★
Comfort	★★★★★	★★★★★	★★★★★	★★★★★
				
MFH's available	14, 16, 18 mm	14, 16, 18 mm	14, 16, 18 mm	16, 18 mm

Universal progressive lens family represents a group of Semi-Personalized designs calculated with Digital Ray-Path® technology. Default personalized Position of Wear parameters are calculated when the design is computed. The lens calculation uses preconfigured parameters that correspond with average values.

As a result, a partially personalized but fully compensated lens is achieved. Wearers receive a much higher visual definition and higher level of comfort compared with a non-compensated progressive lens.

Universal progressive lens designs are the ideal option to build an intermediate product level. This helps to expand your target market by offering compensated lenses without extra Position of Wear measurements.

Rogue [Ne]



Semi-Personalized design specially created for experienced progressive wearers who want a wide near visual field to feel comfortable with near visual activities, such as reading the newspaper.  
Default Position of Wear personalization parameters will be used.

Resolve [Ba]



Semi-Personalized design with a good balance between far and near vision. Recommended for experienced progressive users who want an all-purpose progressive lens.  
Default Position of Wear personalization parameters will be used.

Rebel [Di]



Semi-Personalized design specially created for experienced progressive wearers who want a wide distance visual field to feel comfortable with distance visual activities such as traveling or viewing landscapes.  
Default Position of Wear personalization parameters will be used.

Recruit [Nw]



Semi-Personalized design for novice progressive wearers. A soft design balanced between near and far vision to provide the wearer with a comfortable and all-purpose first progressive lens.  
Default Position of Wear personalization parameters will be used.



# Integrity

## Basic

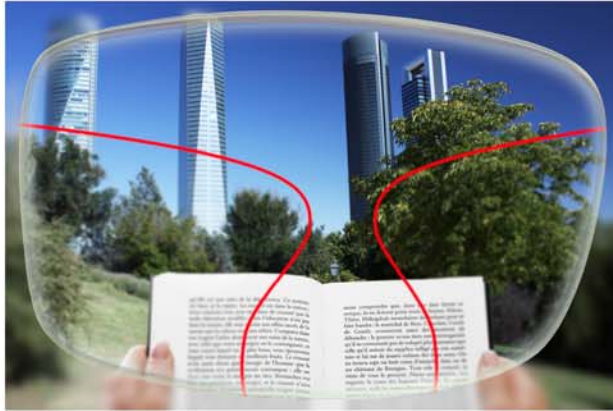
	Review [Ba] Balanced	Renegade [Di] Distance	Rookie [Nw] New Wearer
Description	Non Compensated Progressive Lens		
Strengths	Balanced between near and distance	Distance vision enhanced	Soft design Smooth transition zone
Far	★★★★★	★★★★★	★★★★★
Near	★★★★★	★★★★★	★★★★★
Comfort	★★★★★	★★★★★	★★★★★
	<b>SURFACE POWER</b>		
MFH's available	14, 16, 18 mm	14, 16, 18 mm	16, 18 mm

Everyday family includes three progressive lens designs calculated with Surface Power® technology. Everyday lenses are generated with digital equipment but are non-personalized and are non-compensated. These three different options allow you to select the best option for each patient and get a better adapted visual solution.

Being a non-compensated lens it offers as an added value an accurate inset calculated individually for each user. This provides the patient with an increased near binocular visual field.

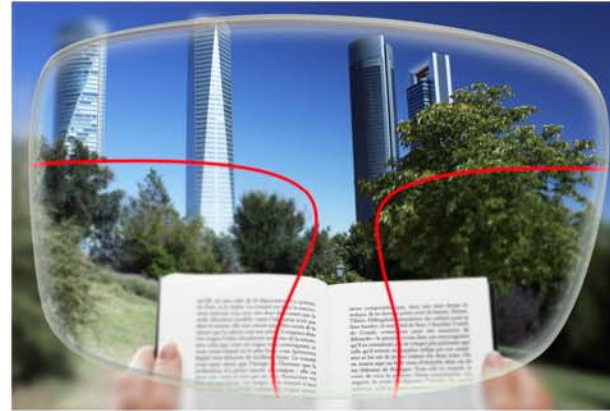
Everyday progressive lens design are the ideal option to be positioned as an economic digital product.

Review [Ba]



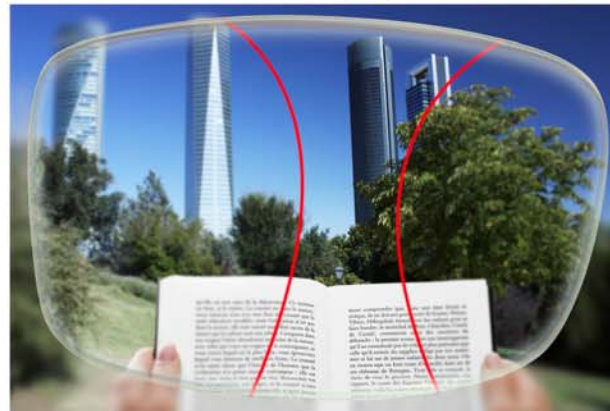
Non-compensated design specially engineered for experienced progressive users that are looking for a digital and economic solution. Distance and near vision is balanced to provide wearer with a comfortable all-purpose lens.

Renegade [Di]



Non-compensated design lens developed for experienced progressive wearers with a preference for distance vision and are looking for a digital and economic solution. A good solution for enjoying outdoor activities.

Rookie [Di]



Non-compensated design lens specially configured to be an all-purpose first progressive lens. Ideal for novice progressive wearers looking for a digital and economic solution. A soft and comfortable progressive lens with a smooth transition zone.



# Integrity

# Specialty

	Reboot [Cp] Computer	Relief [Af] Anti-fatigue	Rush [Sp] Sport	Road Trip [Dr] Drive	Radical [Sv] Single Vision
Description	Indoor lens	Personalized Anti-fatigue lens	Personalized outdoor progressive lens	Personalized progressive lens for driving	Fully personalized single vision lens
Strengths	Widest Near and Intermediate	Help for reading	Panoramic and dynamic distance vision	Great distance and low lateral distortion	Perfect for high prescriptions and sport frames
Far	★★★★★	---	★★★★★	★★★★★	---
Near	★★★★★	---	★★★★★	★★★★★	---
Comfort	★★★★★	---	★★★★★	★★★★★	---
	SURFACE POWER		DIGITAL RAY-PATH		
MFH's available	14 & 18 mm	14 mm	16 & 18 mm	18 mm	---

Just as we have a special pair of shoes for running, and another for golf, our specialty lens designs offer the highest level of comfort during different tasks. Get the best visual quality and comfort for specific activities special designs are a requirement to ensure visual superiority.

The IOT Specialty family is a group of designs, each one developed to be used during certain tasks. Working with computers, indoor activities, playing sports or driving are activities all covered by this family of lenses.

Reboot [Cp]



The best lens for office and computer work. It offers an extremely wide intermediate and near visual field and very easy adaptation. Ideal for mid-age professionals who spend a lot of time working at near-intermediate distance ( office workers, chef, musicians, etc.).



- Reader 1.3 m Up to 1.3 meters (4 ft) of clear vision
- Reader 2 m Up to 2 meters (6.5 ft) of clear vision
- Reader 4 m Up to 4 meters (13 ft) of clear vision

Relief [Af]



A lens designed to reduce visual fatigue. Available in 0.75 D and 0.50D of additions. Ideal for single vision wearers between 18-45 who need better near vision and have visual fatigue symptoms.

Rush [Sp]



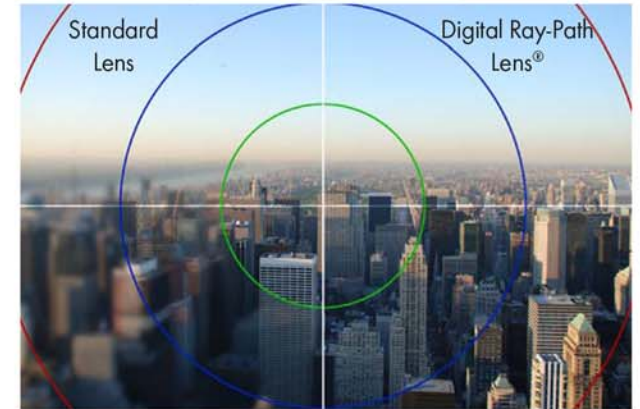
Fully personalized progressive lens exclusively for outdoor activities. This design offers a clear area of binocular vision in far distance and it is the ideal lens for dynamic outdoor conditions.

Road Trip [Dr]



Fully personalized progressive lens specially designed for driving. It has a wide clear area of binocular vision in far distance combined with a wide corridor and soft transitions to offer the best comfort while driving.

Radical [Sv]



Fully personalized single vision lens. It is especially beneficial for high minus and plus prescriptions or for sport frames. The patient will see a new concept of vision in high definition from center to edge.



# Integrity

**LARAMY-K OPTICAL**

AN UNCUT ABOVE THE REST

The logo consists of several overlapping, curved lines in red, blue, green, and yellow, resembling a stylized flame or a cluster of rays.

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