

Transitions[®]
XTRActive
ADAPTIVE LENSES

Transitions[®] Signature[™]
ADAPTIVE LENSES

TRILOGY[®]
LENSES

Heritage

NUPOLAR[®]
polarized lenses

YOUNGER OPTICS 
The Optical Lens Innovators

International
experience

ADAGE
progressive lenses

IMAGE[®] Tradition

Innovations

Transitions[®] Vantage[™]
ADAPTIVE LENSES

Independence

 Transitions[®]
DRIVEWEAR[®]

Younger Optics

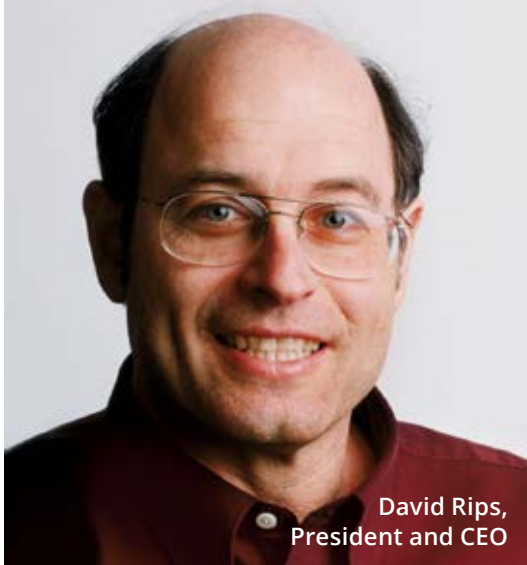
AVAILABILITY

Quick Reference Guide



YOUNGER OPTICS

Optical Lens Innovators



David Rips,
President and CEO

The Easiest Company To Do Business With

For more than 50 years, Younger Optics has established itself as a leader in the optical industry by developing new and innovative lens solutions. From polarized sun lenses that block blinding glare to lenses designed specifically for the driving task - Younger provides a wide array of lens options, materials and treatments to meet virtually every eyewear need: quality products that help people to see better.

Younger Optics is committed to maintaining its reputation as a Quality Lens Innovator by anticipating and meeting our customers' needs. We strive to make the quality of our products and services the best in the industry as defined by our customers, with the result that both our external and internal customers feel we are "The Easiest Company to do Business With."

Table of Contents

NuPolar®	4-9
Transitions® Drivewear®	10-13
Image® Progressive	14-17
Adage® Progressive	18-21
Trilogy® Trivex®	22-25
Transitions Signature™	26-27
Transitions XTRActive®	28-29
Transitions Vantage™	30-31
Transitions Availability	33
High Index.....	34-35
Camber™	36-39

Pages highlighted in blue contain product availability tables.



Headquarters: 2925 California St., Torrance, CA 90503 USA

Pacific: Unit 6, 9-13 Ridley Street, Hindmarsh, SA 5007 Australia

Europe: Comercni Zona Pruhonice, Obchodni 110, Čestlice 25170, Czech Republic

Brasil: Rua Alfredo Achcar, 970, Prédio 10—Nova Vinhedo—Vinhedo/SP CNPJ: 15.069.973/0001-54

www.youngeroptics.com

A Tradition of Excellence

Since 1987, Younger has been recognized by the OLA with a total of 24 Awards of Excellence—more than any other lens company.

*Thanks to the members of the OLA for your votes.
Your recognition is appreciated.*

2013

*Optical Pioneers Award,
David Rips*

2012

*Director's Choice Award,
David Rips*

2011

Best in Lens Design, Adage®

*Best in Lens Materials,
NuPolar® 1.67 High Index*

2010

*Best in Lens Materials,
NuPolar Trilogy®*

*Best in Accessories
Drivewear® Owners Manual*

*Best in Marketing, NuPolar
Glare Wheel Demonstrator*

2009

*Best in Marketing, Drivewear
Glare Wheel Demonstrator*

2008

*Best in Lens Materials,
Drivewear in Polycarbonate*

*Best in Lens Design, Image
Wrap® Decentered Design*

*Best in Marketing, Drivewear
Informational Videos*

2007

*Best in Lens Materials,
Drivewear Activated by
Transitions®*

*Best in Marketing,
The Art & Science of
Drivewear Activated by
Transitions Education Tour
and Marketing Materials*

2006

*Best in Marketing,
Art & Science Brochures*

2004

*Best in Lens Materials,
NuPolar Polycarbonate*

*Best in Accessory Products,
Desktop Glare Demonstrator*

2003

*Best in Lens Treatments,
Trilogy Transitions*

2002

*Best in Lens Materials,
Trilogy*

*Best in Lens Design,
Image®*

*Best in Marketing,
Clear Choices™*

2001

*Best In Marketing,
Clear Choices*

*Best In Marketing,
Best Booth Exhibitor*

1999

*Best in Accessory Products,
NuPolar Glare Demonstrator*

1996

*Best in Lenses,
NuPolar Polarized Lens*

1992

*Lifetime Achievement,
Irving Rips — Founder of
Younger Optics*

1987

*Specialty Lenses,
Best New
Development of
Lenses*



NUPOLAR® POLARIZED LENSES

Not all polarized lenses are the same. There is a good reason why NuPolar is the world's #1 Rx polarized lens.

As polarized lenses gain in popularity and are being offered by an increasing number of lens manufacturers, it is easy to begin to think that all of these lenses are manufactured the same, and are of equal quality and similar performance. This is certainly not true.

NuPolar® is the world's leading brand of polarized Rx lenses. When performance factors such as optics, polarizing efficiency, color consistency, heat stability and many other factors are taken into consideration, NuPolar® quality is unequalled. We worry about the small details of our lenses so that you don't have to. With NuPolar® lenses you can always be sure of receiving the most advanced and intelligently designed lens available.

NuPolar is Perfect for Digital Surfacing

Excellent digital surfacing capabilities start with having excellent curve control and optics on the front surface of the lens. This curve control can only be achieved through rigorous adherence to manufacturing standards throughout the manufacturing process. The precision of the front curve of a lens is a result of the care given to it by the manufacturer. NuPolar® products are designed specifically to be highly compatible with digital surfacing processes. The number of base curves in one-diopter steps is maximized to give as thin and flat a finished lens as possible.

Proprietary Film Technology

Younger is one of the few lens manufacturers that has film manufacturing capabilities. This has allowed us to achieve unrivaled excellence in the areas of film placement, color stability, heat stability, and advanced film adhesion. Creating a great polarized lens starts with great polarizing film technology, and here NuPolar is unrivaled.

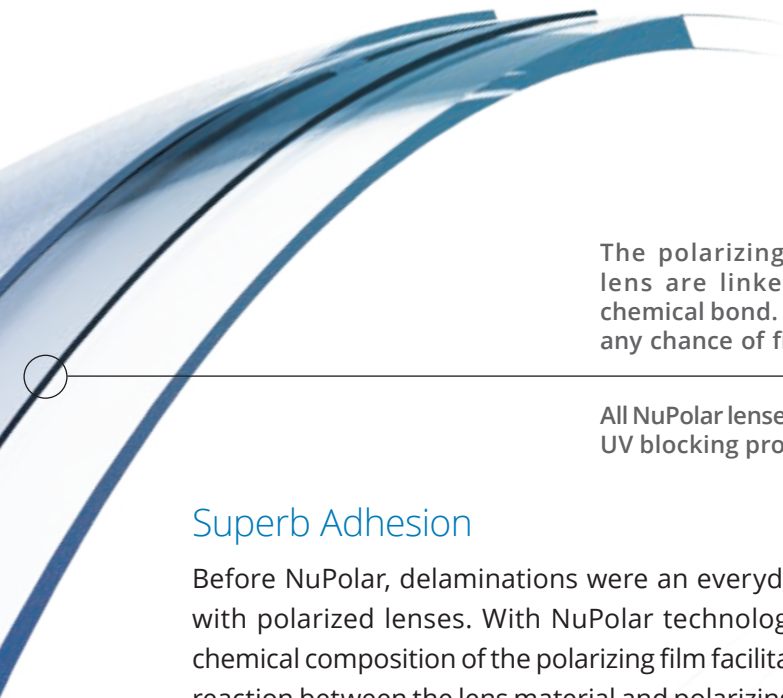
Excellent Color Uniformity

Younger colors are always "true colors". The human eye is a superb "color matching instrument" and NuPolar lenses are the best product on the market to satisfy these demanding requirements.

Excellent Heat Stability

NuPolar's colors remain stable in the elevated temperatures often required for hard coating and AR processing. Other lenses often fade, lose efficiency or change their colors completely when subjected to the temperatures required during these processing steps.





The polarizing film and the lens are linked by a stable chemical bond. This eliminates any chance of film separation.

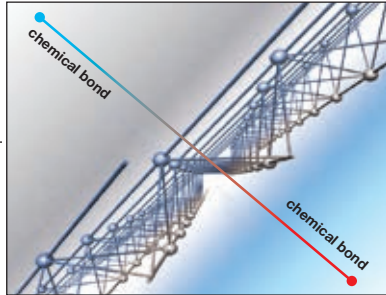
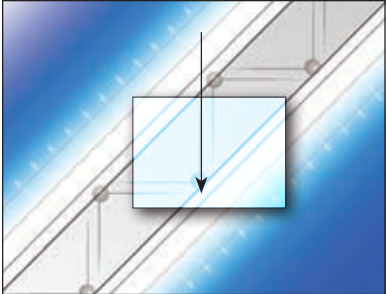
All NuPolar lenses have excellent UV blocking properties.

Superb Adhesion

Before NuPolar, delaminations were an everyday occurrence with polarized lenses. With NuPolar technology, the unique chemical composition of the polarizing film facilitates a chemical reaction between the lens material and polarizing film material, which eliminates the possibility for lens/film delaminations.

Wide Availability

With a wide range of materials, colors, and styles, NuPolar lenses consistently have the availability you need, making it easy to recommend the world's #1 Rx polarized lens to practically every patient. NuPolar lenses are made in more progressive styles than any other polarized lens. Availability table on page 9.



Without NuPolar lenses



With NuPolar lenses



Embrace the Opportunity.

Every corrective lens wearer should have at least two pairs of glasses: one with clear or photochromic lenses for indoor and low light conditions, and one with polarized lenses for bright light conditions.

The benefits of sunwear are undisputed, but your patient relies on you for adequate information to choose the right pair.

When you recommend NuPolar® lenses, you are recommending the world's most trusted Rx polarized lenses.

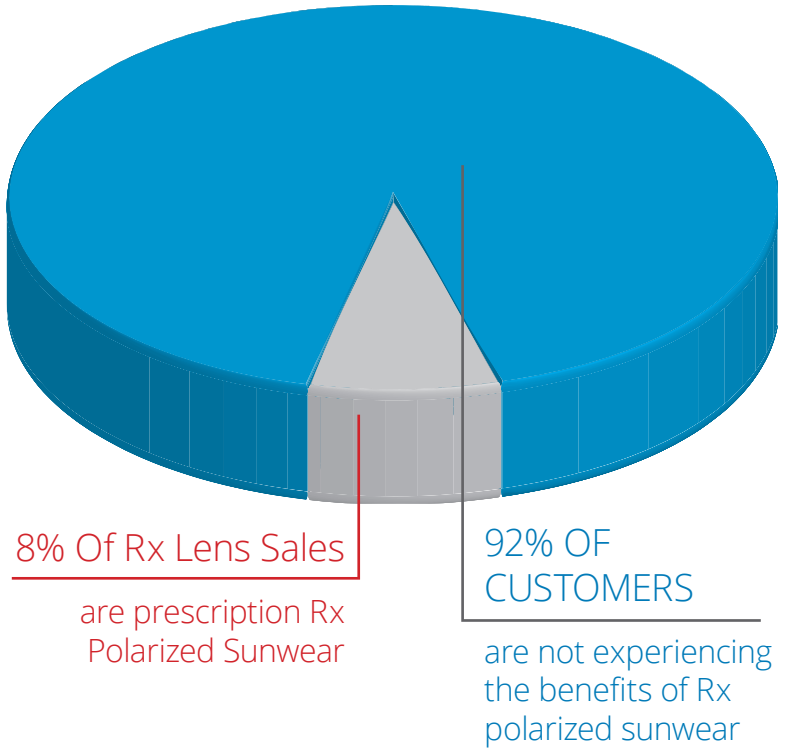
Q: Which patients should have polarized sunwear?



A: All of them.

Grow Your Business with Polarized Lenses

Only 8% of Rx lens sales are polarized prescription sunwear. This means that 92% of your customers are not enjoying the incomparable benefits of polarized lenses. By introducing NuPolar® lenses to your patients, you increase patient satisfaction while also helping grow your business or practice.

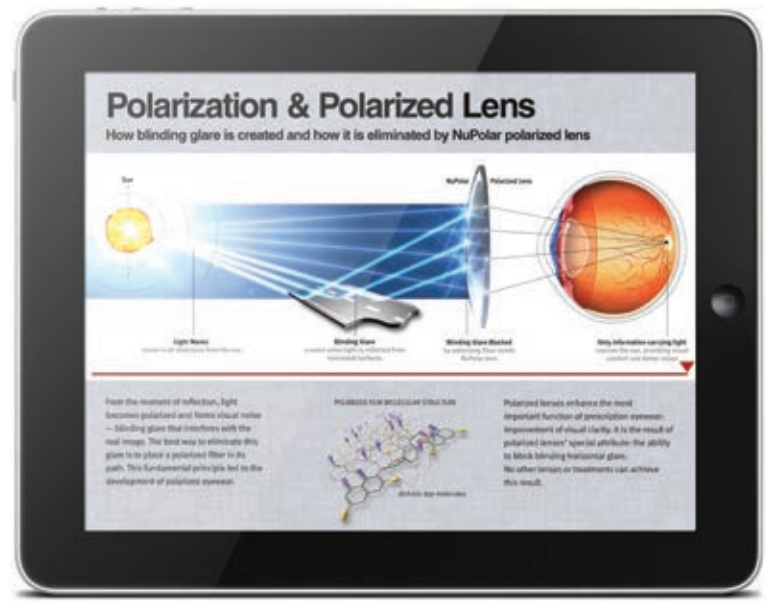


Supporting Tool for PATIENT EDUCATION

NuPolar:
The industry's
first polarized
lens app.

The NuPolar app, free for iPad and Android tablet users, makes learning and talking about polarized lenses interesting and exciting for both ECPs and patients. ECPs may use this high-tech tool to engage patients in a discussion about the unique benefits of polarized Rx sunwear. The app includes brilliant images, computer graphics and narrated video to help the patient understand both polarized sunlight and polarized lenses.

"Almost every patient is a good candidate for polarized Rx lenses," says David Rips, president and CEO of Younger Optics, "but getting a patient to understand how polarized lenses help them see better can be complicated. This new NuPolar app can make that conversation easier and more engaging. ECPs will enjoy having all that information at their fingertips."



Free NuPolar app available for iPad or Android tablets.



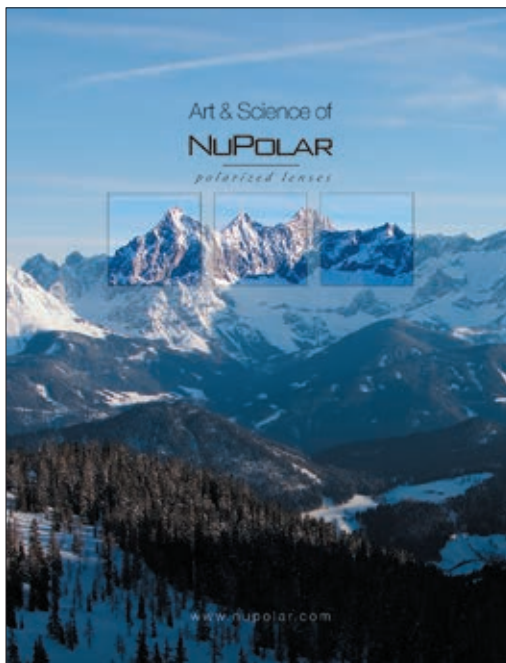
- Eyecare professionals and patients may use the NuPolar app to:
- See a video which explains how polarized light is created, and how NuPolar lenses block blinding glare
 - See real-life situations in which NuPolar lenses improve vision by blocking glare
 - Learn the history of polarized lens technology
 - See the availability of NuPolar lens materials, and learn the benefits of each material
 - See the availability of NuPolar lens colors for each style and material
 - Learn what makes the NuPolar lens different from other polarized lenses on the market
 - Learn about the advantages of NuPolar lenses' unique film placement and construction

Educational & Marketing MATERIALS

Education made simple

Like all value-added features, polarized lenses require a bit of consumer education. Younger Optics is committed to providing the eye-care professional with a wide range of marketing materials that make this task simple.

For a complete list of available NuPolar resources, please visit YoungerOptics.com/Marketing



The Art & Science of NuPolar booklet



NuPolar Patient Brochure



NuPolar "Look" Polarized Glare Card




































NuPolar Lighted Glare Demonstrator








NuPolar Glare Demonstrator

To request materials, contact marketing@youngeroptics.com.

NuPolar® AVAILABILITY

NUPOLAR®	Hard Resin	Poly	Trilogy® Trivex®	1.60 Hi-Index	1.67 Hi-Index
Single Vision Colors Base Curves	   1, 2, 3, 4, 5, 6, 7, 8	  .50, 1, 2, 3, 4, 5, 6, 7, 8	  2, 4, 6, 8	   1, 2, 3, 4, 5, 6, 7, 8	   1, 2, 3, 4, 5, 6, 7, 8
	 2, 4, 6, 8	  .50, 2, 4, 6, 8			
IMAGE® Progressive Colors Base Curves <i>Add Range</i>	  2, 4, 6, 8 1.00 - 3.00	  2, 4, 6, 8 1.00 - 3.00			
IMAGE Wrap® Color Base <i>Add Range</i>		 8 Base 1.00 - 3.00			
ADAGE® Progressive Colors Base Curves <i>Add Range</i>		  2, 4, 6, 8 1.00 - 3.00			
FT28 Bifocal Colors Base Curves <i>Add Range</i>	  2, 4, 6, 8 0.75 - 4.00	  2, 4, 6, 8 1.00 - 3.00			
FT35 Bifocal Color Base Curves <i>Add Range</i>	 2, 4, 6, 8 0.75 - 4.00				
7 x 28 Trifocal Color Base Curves <i>Add Range</i>	 4, 6, 8 1.50 - 4.00				
Finished Plano Colors Base Curve	    6				

NuPolar Colors:

-  Gray-3
-  Brown
-  Green
-  Copper
-  Gray-1

For complete Rx ranges & tech specs,
see youngeroptics.com/availability.

TRANSITIONS® DRIVEWEAR®

Polarized & Adaptive:

The Ultimate Driving Lens

Transitions Drivewear adaptive sun lenses were designed to meet the unique visual challenges of daytime driving.

High-efficiency polarizer blocks blinding glare both outdoors and behind the windshield, for a safer and more comfortable drive.

Lens color and darkness continuously adapts to optimize color contrast in changing daylight conditions, even behind the windshield.

Transitions Drivewear sun lenses block 100% of UVA and UVB, and are the only lenses that combine NuPolar polarizing technology and Transitions photochromic technology.

OVERCAST



Low Daylight Conditions

High Contrast Olive Green

In low daylight, the lenses allow high transmission of light to maximize the total information to all the eye's visual receptors. This results in maximum visual acuity at this lower lighting level. The high contrast polarizer removes glare that would otherwise destroy vision in low light conditions. Wearers have said there are no better lenses for driving under overcast and low-daylight conditions.

DAYLIGHT**Behind the Windshield**

Copper

In sunny conditions, behind the windshield of a car, Transitions Drivewear sun lenses darken to copper. **In this stage, the lenses reduce light intensity and block blinding glare for optimum visual acuity.**

BRIGHT LIGHT**Outside in Sunlight**

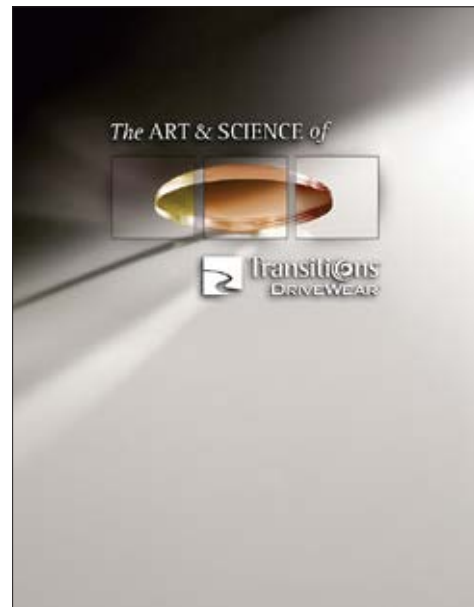
Brown

Outside in bright sunlight, the eyes' visual receptors, the rods and cones, can easily get "oversaturated" with light. **In bright direct sunlight, Transitions Drivewear sun lenses achieve their maximum dark color, which is designed for maximum filtration of uncomfortable bright light.** This means Transitions Drivewear sun lenses are great sunwear lenses for any outdoor activity.

Educational & Marketing MATERIALS



Transitions Drivewear Polarized Demo Wheel



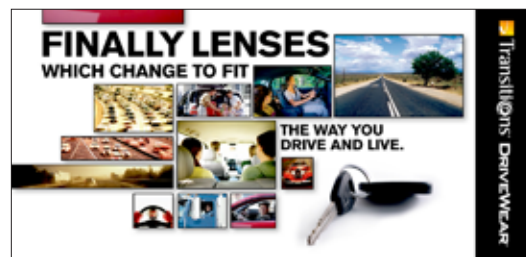
The Art & Science of Transitions Drivewear booklet



Poster, approx. 23" x 33"




Lenticular Display Sticker & Recall Cards (image changes when viewed at different angles)



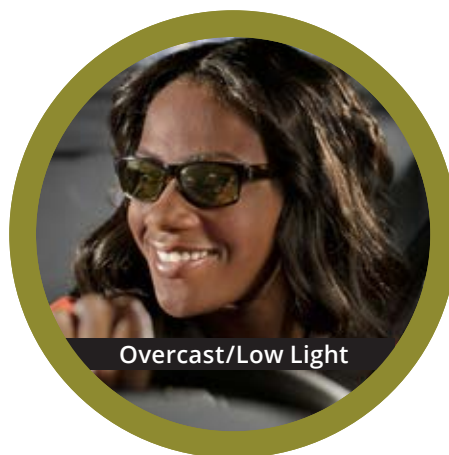
Patient Brochure

To request materials, contact marketing@youngeroptics.com.

Transitions® Drivewear® AVAILABILITY

 Transitions® DRIVEWEAR®	Hard Resin	Poly
Single Vision Base Curves	1, 2, 3, 4, 5, 6, 7, 8	2, 4, 6, 8
IMAGE® Progressive Base Curves <i>Add Range</i>	2, 4, 6, 8 1.00 - 3.00	2, 4, 6, 8 1.00 - 3.00
FT28 Bifocal Base Curves <i>Add Range</i>	2, 4, 6, 8 1.00 - 3.00	
Finished Plano Base Curve	6	

For complete Rx ranges & tech specs, see youngeroptics.com/availability.



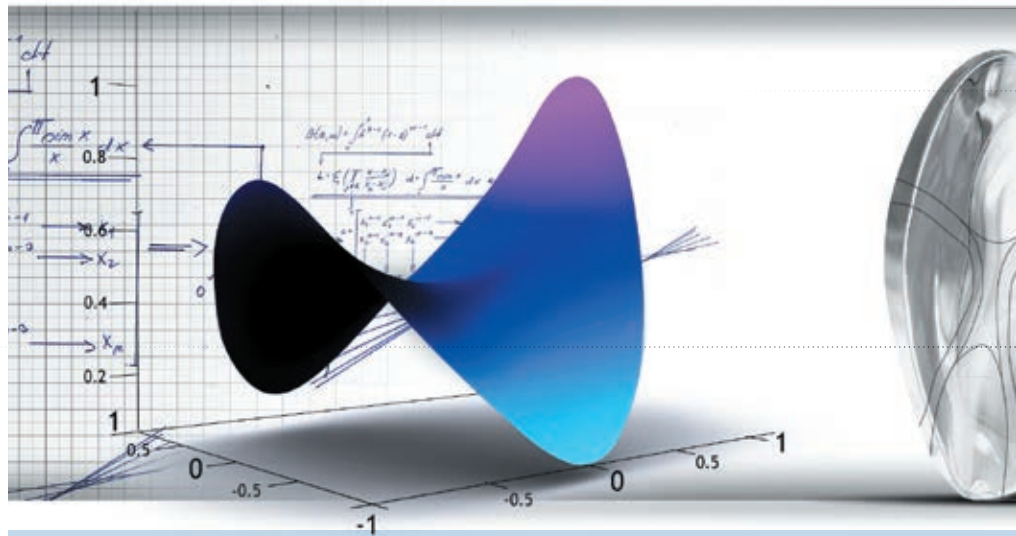
IMAGE®

PROGRESSIVE LENSES

From Mathematics to Award-winning Lens Design

Advanced lens design technology and a desire to attain optimum wearer comfort in all viewing zones were the design principles that brought the IMAGE progressive to life. Eye-path tracing technology has been utilized to analyze and understand what the wearer sees in all viewing areas, in all prescriptions, in many different lifestyle activities.

IMAGE provides stabilized viewing zones in all prescriptions, ensuring the reading area is not compromised as the add power increases. IMAGE boasts one of the widest distortion free distance zones in the industry, which is an essential attribute for a quality progressive design. Image designs are available in a very wide range of lens materials and lens treatments, see availability table on page 17.



State of the art mathematics to world class progressive lens design

IMAGE Wrap® Decentered Progressive Polarized Lens

The IMAGE Wrap lens design is decentered to maximize the usable lens area, and the low level of unwanted astigmatism in the periphery of the distance zone makes it an ideal choice for high end wrap styles.

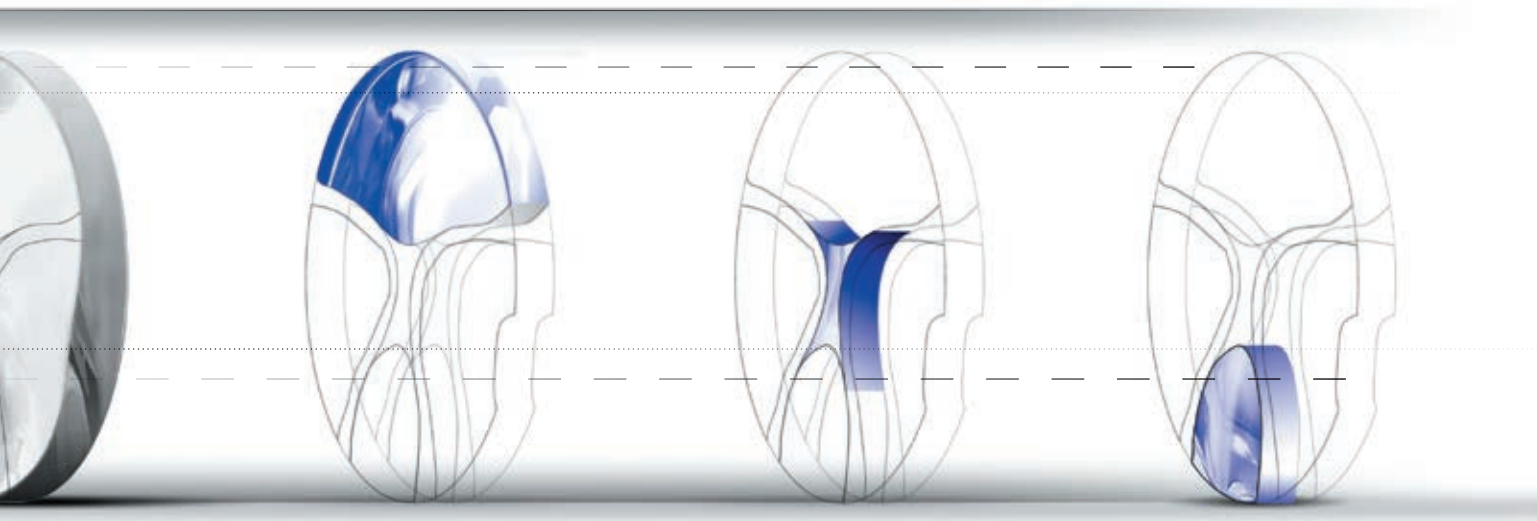
Clear distance, even out to the edge



ample reading area

Available in polycarbonate in a +8 base curve, the design is decentered 7mm to allow for maximum cut-out opportunity. With an effective blank size of 83mm, no secondary calculations are necessary for use. Great for narrow PD's.

IMAGE®



Distance Zone

IMAGE features a large and clear distance, particularly important for outdoor activities, driving, and sunwear

Intermediate Zone

Both functional and practical to accommodate the widest range of frame sizes

Reading Zone

Stabilized near zone ensures easy adaptation and patient satisfaction when reading

Polarized Sunwear

Fit premium Image® NuPolar® lenses with today's premium sunglass frames. No need to compromise technology and performance on Rx sunglasses due to cut-out issues. With one of the widest distance zones in the industry, the IMAGE progressive design is ideal for sunwear.

Rimless or Drilled Frames

Rimless high fashion frames are elegant, yet these frames present lots of challenges. IMAGE is available in Trilogy® Trivex®, polycarbonate, and High Index 1.67 MR-10™ materials, giving you flexibility when balancing the factors of material strength, optics, weight, and progressive design.

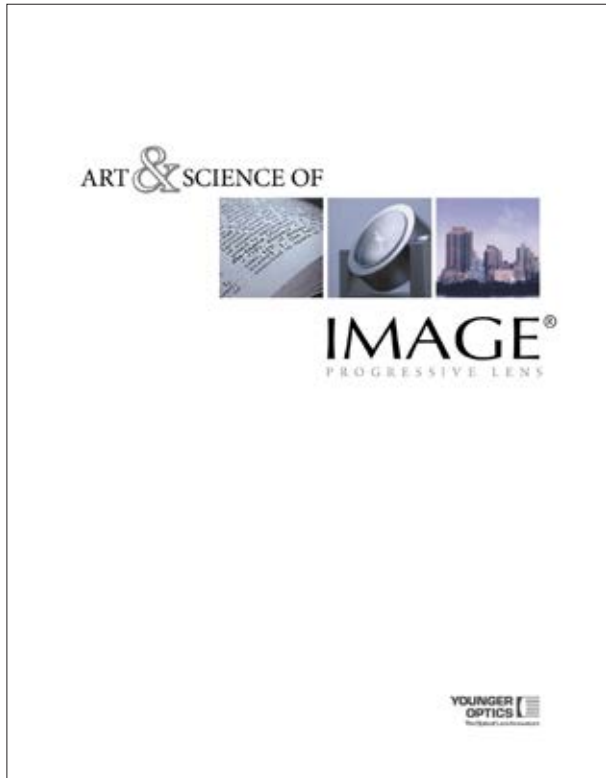
Fashionable Small Frames

Small frames are particularly challenging for progressive lenses. IMAGE balances a clear unobstructed distance area with a short corridor, allowing fitting heights as low as 18 mm.

For even shorter fitting heights, try the ADAGE® ultra-short corridor progressive lens with a minimum fitting height of 13 mm.



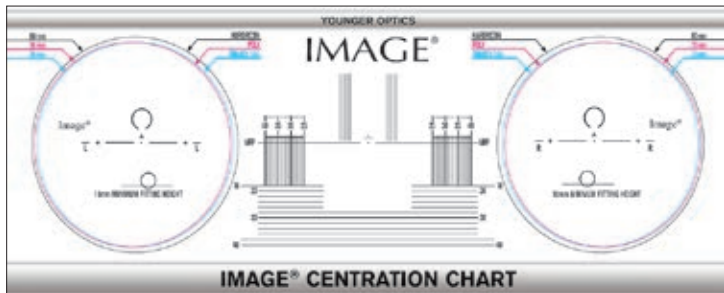
Educational & Marketing MATERIALS



The Art & Science of IMAGE® booklet



IMAGE® Reading Card



IMAGE® Centration Chart



Patient Brochure

To request materials, contact marketing@youngeroptics.com.

Image® AVAILABILITY

IMAGE® <i>progressive lenses</i>	Hard Resin	Poly	Trilogy® Trivex®	1.55 Mid-Index	1.67 Hi-Index
IMAGE® Clear Base Curves Add Range	Ⓒ 2, 4, 6, 8 1.00 - 3.00	Ⓒ 2, 4, 6, 8 1.00 - 3.00	Ⓒ 2, 4, 6, 8 1.00 - 3.00	Ⓒ 2, 4, 6, 8 1.00 - 3.00	Ⓒ 1, 3, 5, 7 1.00 - 3.50
IMAGE Transitions® Colors Base Curves Add Range	Ⓓ Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ 2, 4, 6, 8 1.00 - 3.00		Ⓓ 1, 3, 5, 7 1.00 - 3.50
IMAGE Transitions XTRActive® Color Base Curves Add Range	Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ 2, 4, 6, 8 1.00 - 3.00		
IMAGE Transitions Vantage™ Colors Base Curves Add Range		Ⓓ 2, 4, 6, 8 1.00 - 3.00			
IMAGE Transitions Drivewear® Color Base Curves Add Range	Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ 2, 4, 6, 8 1.00 - 3.00			
IMAGE NuPolar® Colors Base Curves Add Range	Ⓓ Ⓓ 2, 4, 6, 8 1.00 - 3.00	Ⓓ Ⓓ 2, 4, 6, 8 1.00 - 3.00			
IMAGE Wrap® NuPolar Color Base Curves Add Range		Ⓓ 8 1.00 - 3.00			

Colors:

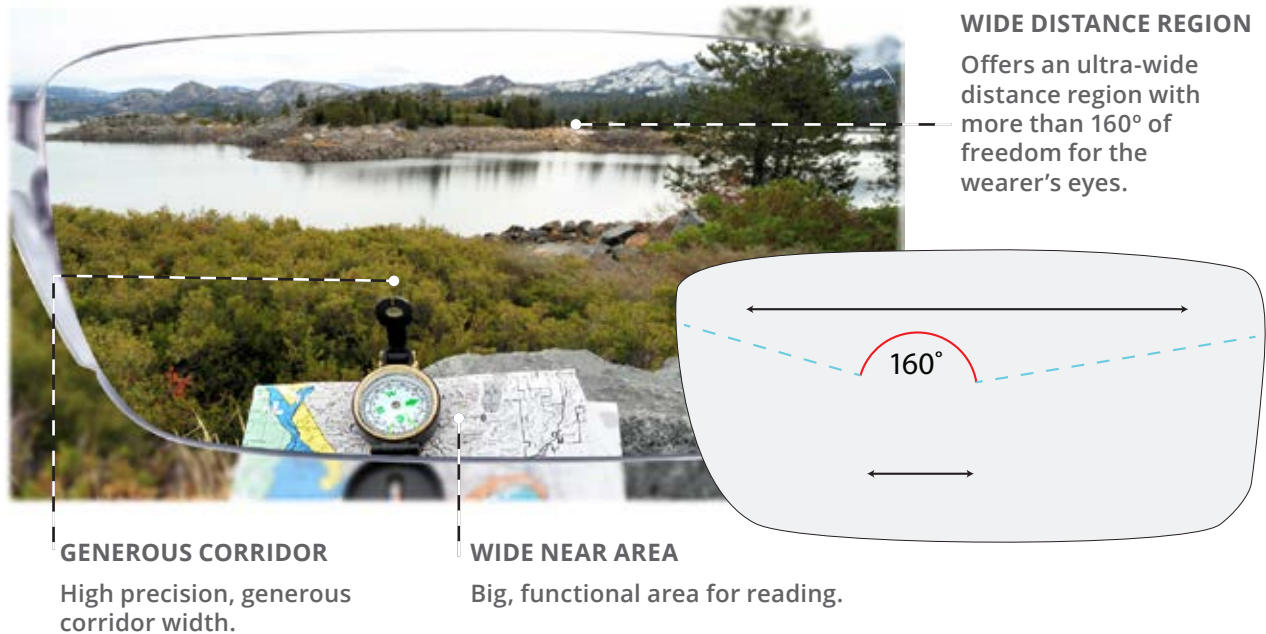
- Ⓒ Clear
- Ⓓ Transitions Signature Gray
- Ⓓ Transitions Signature Brown
- Ⓓ Transitions XTRActive Gray
- Ⓓ Transitions Vantage Gray
- Ⓓ Transitions Drivewear Photochromic*
- Ⓓ NuPolar Gray-3
- Ⓓ NuPolar Brown

* Transitions Drivewear lens color is dependent on lighting conditions.

For complete Rx ranges & tech specs, see youngeroptics.com/availability.

ADAGE® PROGRESSIVE LENSES

Adage® is an "ultra-short" progressive lens design for smaller aesthetic frames, specially engineered to offer the best, balanced combination of far, intermediate, and near fields of view.



Large Zones

Adage offers one of the largest combined functional total zone widths of any short progressive. The near zone is wider than in other short designs, which wearers will appreciate while reading.

This, in addition to the ultra-wide distance region makes this progressive a significant advancement in the field of short progressive lenses.

Short Fitting Height

A minimum Fitting Height of 13 mm will allow new progressive wearers to keep using their favorite frames without losing optical performance.

90% of addition is reached at only 11mm under the pupil, making it easy to find the near area and also minimizing the necessary eye movement to reach the reading area.

Symmetrical Power Distribution

Users that have experience wearing progressive lenses will appreciate the benefit of these lenses' big functional zones with excellent and stable optical properties. These special features allow wearers to be able to maintain a more natural eye position for every viewing distance.

How Do Adage Lenses Measure Up?

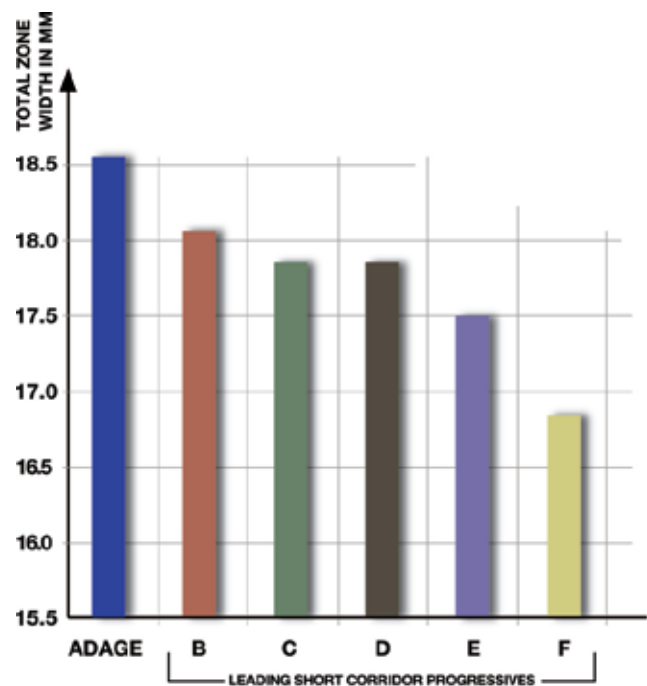
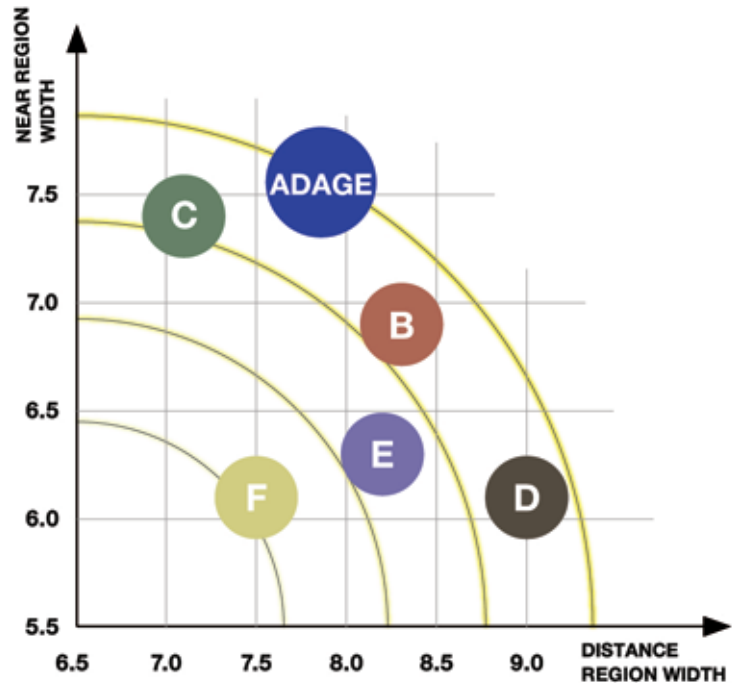
In an objective study based on Sheedy's measurement system*, the Adage progressive lens was compared to other popular and leading short progressive designs in terms of width of the far and near zones.

The chart at right shows where the Adage lens falls in terms of far zone width and near zone width. Wider distance zones are indicated by positions farther to the right. Wider near zones are indicated by positions higher up. Considering all of the qualities measured, the Adage occupies the ideal position, showing a balanced distance zone and the absolute widest near zone.

Examining the competitors, we can see that the D lens is a design that provides wearers with a very good far vision area but less area for near vision. With C, the opposite is true, with very good near area but more restricted far vision. The Adage lens has been designed to provide the wearer with an excellent and balanced combination of far, near, and intermediate zones.

The bar graph at right shows the total zone widths of the Adage lens compared to the total zone widths of the most popular and leading short-corridor progressive lenses.

Adage has the largest combined zone widths. This amounts to bigger usable fields and sharper vision, due to balanced power distribution. This helps wearers get a clear view, wherever they are looking.



* J. Sheedy, R. F. Hardy, and J. R. Hayes, "Progressive addition lenses - measurements and ratings," *Optometry*, vol. 77, no. 1 (January 2006), pp. 23-39.

160° of FREEDOM

ADAGE® progressive lenses give wearers 160° of freedom in the distance zone and a short-corridor lens design that fits fashionable smaller frames.



Adage short-corridor progressive lenses offer patients:

- Ideal balance of near, intermediate and distance areas
- Greatest total zone width of any short-corridor PAL
- Minimum fitting height of 13mm
- Clear, Transitions® Signature™ and NuPolar® availability
- Trilogy® Trivex® Availability

Adage® AVAILABILITY

ADAGE®	Poly	Trilogy® Trivex®
ADAGE® Clear Base Curves Add Range	C 2, 4, 6, 8 1.00 - 3.00	C 2, 4, 6, 8 0.75 - 3.50
ADAGE Transitions® Colors Base Curves Add Range	T T 2, 4, 6, 8 1.00 - 3.00	
ADAGE NuPolar® Colors Base Curves Add Range	N N 2, 4, 6, 8 1.00 - 3.00	

Colors:

- C** Clear
- T** Transitions Signature Gray
- T** Transitions Signature Brown
- N** NuPolar Gray-3
- N** NuPolar Brown

For complete Rx ranges & tech specs, see youngeroptics.com/availability.



The Art & Science of ADAGE® booklet

ADAGE® pocket card

To request materials, contact marketing@youngeroptics.com.

TRIOLOGY® MADE FROM TRIVEX®

What do patients want in a lens? BALANCE.

Optically Superior

Compared to the other thin and light materials available, Trilogy offers sharper vision. This is because Trilogy lenses are made from Trivex, an optically superior material that **reduces chromatic aberration**, the annoying tendency of some lenses to create colored blur around objects, particularly in the periphery. If your patient's work or hobbies demand clear vision, or if your older patient's visual acuity needs a little extra help, prescribe Trilogy lenses.

Light and Thin

Patients want comfort and good looking lenses. Trilogy lenses are made of Trivex, an ultra lightweight material that practically floats on water. They are thin as well as lightweight, so not only are the lenses



cosmetically appealing, your patients' glasses won't slide down or leave nasty marks on the bridge of their noses.

Safety

Trilogy lenses are made from a material with **exceptionally high impact resistance**. This material (Trivex) was originally developed to be used in military applications.

For impact resistance many times the FDA requirement, you can recommend Trilogy, or you can give polycarbonate, a lens which may compromise visual

clarity. Why compromise? With Trilogy, patients can protect their vision and enjoy superb optics. And for added benefit, Trilogy lenses are 100% UV blocking.

Rimless Eyewear Advantage

Trilogy lenses are the best choice for wearers of **rimless eyewear frames** because this lens material is highly resistant to splintering and breakage at the point where the frame is attached to the lens.

	Trilogy	Polycarbonate	High Index
Clear, Crisp Vision	●	○	○
Lightweight	●	●	○
Safety	●	●	○
Thin	●	●	●

TRILOGY®

NuPolar Trilogy

Over five years in development and covered by multiple patents, Younger Optics presents the ultimate in sunwear optics and protection.

Trilogy® was based on research originally developed for the military as visual armor. That research fueled efforts to bring together impact protection, great optics, light weight and chemical resistance all in one innovative Rx lens: Trilogy.

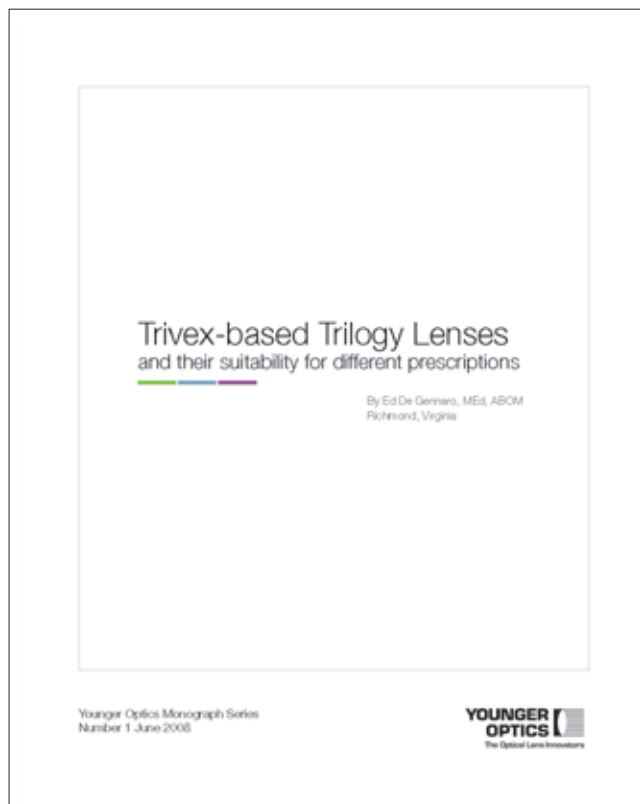
Now, combine those advanced lens characteristics with NuPolar, the world's leading Rx polarized technology, to give the eyewear market an incomparable sunwear combination: NuPolar Trilogy lenses.

While you might not use these lenses under the same intense conditions as the military, why give your eyes anything less than the material protection and benefits of Trilogy lenses plus the sunwear protection of NuPolar?

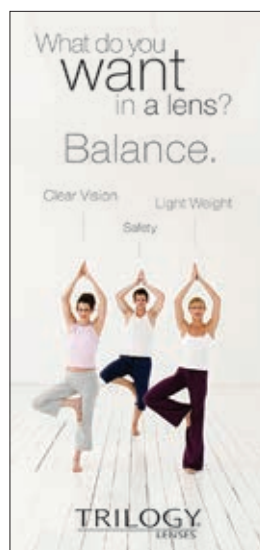


- Exceptional Impact Strength
- Uncompromised Optics - 45 Abbe
- Unmatched Chemical Resistance
- Light Weight - 1.10 Specific Gravity
- Blocks Blinding Glare
- Blocks 100% of UVA & UVB
- NuPolar Quality — World #1 Market Leader in Rx Polarized Lenses

Educational & Marketing MATERIALS



Trivex-based Trilogy Lenses white paper



Trilogy Patient Brochure

NuPolar Trilogy Patient Brochure
(not pictured)

To request materials, contact marketing@youngeroptics.com.

Trilogy® AVAILABILITY

TRILOGY®	Spherical Single Vision	Aspheric Single Vision	Progressive	Bifocal
Clear	<p>C</p> <p>Trilogy® Spherical SFSV 75 mm diameter 0.5, 1, 2, 3, 4, 5, 6, 7, 8</p>	<p>C</p> <p>Trilogy Aspheric SFSV 0.5, 1, 2, 3, 3.5, 4, 5, 6, 7</p>	<p>C</p> <p>IMAGE® Trilogy 2, 4, 6, 8 1.00 - 3.00</p>	<p>C</p> <p>FT28 Trilogy 2, 4, 6, 8 1.00 - 3.50</p>
	<p>C</p> <p>Trilogy Spherical SFSV 65 mm diameter 0.5, 1, 2, 3, 4, 5, 6, 7, 8</p>		<p>C</p> <p>ADAGE® Trilogy 2, 4, 6, 8 0.75 - 3.50</p>	
Transitions® Signature™ VII	<p>T T</p> <p>Trilogy Transitions SFSV 1, 2, 3, 4, 5, 6, 7, 8</p>	<p>T T</p> <p>Trilogy Transitions Aspheric SFSV 0.5, 1, 2, 3, 3.5, 4, 5, 6, 7</p>	<p>T</p> <p>IMAGE Trilogy Transitions 2, 4, 6, 8 1.00 - 3.00</p>	<p>T T</p> <p>FT28 Trilogy Transitions 2, 4, 6, 8 1.00 - 3.50</p>
Transitions XTRActive®	<p>X</p> <p>Trilogy Transitions XTRActive SFSV 1, 2, 3, 4, 5, 6, 7, 8</p>		<p>X</p> <p>IMAGE Trilogy Transitions XTRActive 2, 4, 6, 8 1.00 - 3.00</p>	
Transitions Vantage™	<p>V</p> <p>Trilogy Transitions Vantage SFSV 1, 2, 3, 4, 5, 6, 7, 8</p>			
NuPolar®	<p>N N</p> <p>NuPolar Trilogy SFSV 2, 4, 6, 8</p>			

- Colors:
- C** Clear
 - T** Transitions Signature Gray
 - T** Transitions Signature Brown
 - X** Transitions XTRActive Gray
 - V** Transitions Vantage Gray
 - N** NuPolar Gray-3
 - N** NuPolar Brown

For complete Rx ranges & tech specs, see youngeroptics.com/availability.

TRANSITIONS® SIGNATURE™

Introducing A Superior Way To See The World

This is the photochromic lens your patients have been waiting for. New Transitions® Signature™ VII lenses provide a superior visual experience by being more reactive to varying outdoor light conditions.

More responsive to UV in more situations.

Transitions® Signature™ VII lenses replace Transitions® VI lenses as the optimal lens for maximum indoor clarity and responsiveness to UV outdoors. They offer full clarity indoors and just the right amount of tint outdoors. Transitions Signature VII lenses are preferred 2 to 1 over Transitions VI lenses.

Chromea 7

A true molecular breakthrough, this exclusive dye formulation allows the lenses to be more responsive in more lighting conditions across all temperatures.



Transitions Signature lenses:

- Are clear as an ordinary lens indoors, and darken very quickly in outdoor sunlight.
- Feature new Chromea7 technology, which makes them highly responsive to direct and indirect sunlight so they get dark and fade back to clear quickly.
- Fade back fastest to clear indoors.
- Reduce glare caused by changing light while blocking 100% UVA and UVB light

Transitions Signature lenses may be right for patients...

- If you spend most of your day indoors
- If you value completely clear lenses indoors
- If you go in and out of sunlight frequently
- If you are concerned with the dangers of UV light
- If you are a clear lens wearer who is new to Transitions lenses

	Transitions® Signature™ VII lenses Most responsive, fully clear indoors, just the right amount of tint outdoors.	Transitions® XTRActive® lenses More activation for extra protection, our darkest everyday lenses.	Transitions® Vantage™ lenses Variable polarization for crisper, sharper vision outdoors.
Everyday use	●	●	●
Clear indoors	●		
Slight tint indoors		●	●
Dark outdoors	●	●	●
Variable polarization			●
Activate behind the windshield		●	

Everyday Transitions lenses are designed to replace clear lenses and to be worn both indoors and outdoors. Many of your patients will still benefit from a pair of sunglasses. The Transitions line of adaptive performance sunwear is designed to adapt by darkening and changing color to enhance performance during specific outdoor activities.

TRANSITIONS® XTRACTIVE®

Transitions XTRActive lenses are always active for extra protection.

Now you can help even more patients find the Transitions® lenses that fit their lifestyles. Some of your patients who do not choose Transitions Signature lenses will be very pleased to have Transitions XTRActive lenses as an option.

Transitions XTRActive lenses are darker in both average temperatures and in hot temperatures than Transitions Signature VII lenses. That means Transitions XTRActive lenses will provide more visual comfort for patients who prefer a darker lens outdoors. Additionally, Transitions XTRActive lenses provide moderate activation behind the windshield of a car.



Transitions XTRActive lenses:

- Offer superior darkness compared to other everyday lenses, even in hot temperatures
- Have a comfortable hint of tint indoors to shield the eyes from the strain of artificial light
- Seamlessly adapt to changing light conditions outdoors
- Activate moderately behind the windshield
- 100% UVA and UVB light blocking

Transitions XTRActive lenses may be right for patients...

- Who move between indoors and outdoors frequently
- Who are light sensitive
- Who like a comfortable tint indoors
- Who want some darkening behind the windshield
- Who are concerned with the dangers of UV light and about eye health

	Transitions® Signature™ VII lenses Most responsive, fully clear indoors, just the right amount of tint outdoors.	Transitions® XTRActive® lenses More activation for extra protection, our darkest everyday lenses.	Transitions® Vantage™ lenses Variable polarization for crisper, sharper vision outdoors.
Everyday use	●	●	●
Clear indoors	●		
Slight tint indoors		●	●
Dark outdoors	●	●	●
Variable polarization			●
Activate behind the windshield		●	

Everyday Transitions lenses are designed to replace clear lenses and to be worn both indoors and outdoors. Many of your patients will still benefit from a pair of sunglasses. The Transitions line of adaptive performance sunwear is designed to adapt by darkening and changing color to enhance performance during specific outdoor activities.

TRANSITIONS® VANTAGE™

Introducing variable polarization with Transitions Vantage lenses

Transitions Vantage lenses are the first of a new type of everyday Transitions lenses that darken and polarize upon UV exposure.

Sunlight can cause glare when light scatters off reflective surfaces, causing discomfort and creating dull, washed-out images. Polarization filters this bright light to provide better visual clarity.

Because Transitions Vantage lenses adapt to changing outdoor light by both darkening and polarizing, patients can now enjoy the benefits of polarization — during more hours of the day.



Transitions Vantage lenses:

- Are the only lenses with variable polarization, which adjusts to match the level of outdoor glare
- Offer crisper, sharper vision outdoors compared to other everyday lenses
- Have a hint of tint indoors
- Block 100% UVA and UVB light

Transitions Vantage lenses may be right for patients...

- If you are looking for everyday lenses well-suited to outdoor activities
- If you appreciate a vibrant and vivid visual experience
- If you are interested in the latest advancements in photochromics
- If you are concerned with the dangers of UV light
- If you are an experienced photochromic lens wearer who is looking for something more

	Transitions® Signature™ VII lenses Most responsive, fully clear indoors, just the right amount of tint outdoors.	Transitions® XTRActive® lenses More activation for extra protection, our darkest everyday lenses.	Transitions® Vantage™ lenses Variable polarization for crisper, sharper vision outdoors.
Everyday use	●	●	●
Clear indoors	●		
Slight tint indoors		●	●
Dark outdoors	●	●	●
Variable polarization			●
Activate behind the windshield		●	

Everyday Transitions lenses are designed to replace clear lenses and to be worn both indoors and outdoors. Many of your patients will still benefit from a pair of sunglasses. The Transitions line of adaptive performance sunwear is designed to adapt by darkening and changing color to enhance performance during specific outdoor activities.

Educational & Marketing MATERIALS



More Choices: A Guide to Everyday and Sunwear Lenses booklet



More Choices Patient Brochure



More Choices Pocket Card



More Choices Dispensing Mat

To request materials, contact marketing@youngeroptics.com.

Transitions® AVAILABILITY



	Hard Resin	Poly	Trilogy® Trivex®	1.60 Hi-Index	1.67 Hi-Index
Single Vision Colors Base Curves	T T X V .5, 2, 4, 5, 6, 8	T T X V .5, 1, 2, 3, 4, 5, 6, 7, 8	T T X V 1, 2, 3, 4, 5, 6, 7, 8	T T .5, 1, 2, 3, 4, 5, 6, 7, 8	T T X 1, 1.5, 3, 4, 5, 6, 7
Single Vision Digital Colors Base Curves	T T .5, 2, 3.5, 4, 5, 6, 7, 8, 10				
Single Vision, Aspheric Colors Base Curves			T T .5, 1, 2, 3, 3.5, 4, 5, 6, 7		
IMAGE® Progressive Colors Base Curves Add Range	T T X 2, 4, 6, 8 1.00 - 3.00	T T X V 2, 4, 6, 8 1.00 - 3.00	T X 2, 4, 6, 8 1.00 - 3.00		T 1.5, 3, 5, 7 1.00 - 3.50
ADAGE® Progressive Colors Base Curves Add Range		T T 2, 4, 6, 8 1.00 - 3.00			
FT28 Bifocal Colors Base Curves Add Range	T T X .5, 2, 4, 6, 8 1.50 - 3.00		T T 2, 4, 6, 8 1.00 - 3.50		
FT28 Bifocal Hi-Add Colors Base Curves Add Range	T T 4, 6, 8 3.25 - 4.00				
FT35 Bifocal Color Base Curves Add Range	T T 4, 6, 8 .75 - 4.00				
7 x 28 Trifocal Color Base Curves Add Range	T T X 4, 6, 8 1.50 - 4.00				
8 x 35 Trifocal Color Base Curves Add Range	T 4, 6, 8 1.50 - 4.00				

- Colors:
- T Transitions Signature Gray
 - T Transitions Signature Brown
 - X Transitions XTRActive Gray
 - V Transitions Vantage Gray

For complete Rx ranges & tech specs, see youngeroptics.com/availability

HIGH INDEX

High Index Everyday and Sunwear Lenses

Available in Clear,
Transitions® Signature™,
Transitions XTRActive®,
and NuPolar® lenses

High Index lenses are a premium choice for patients with high prescriptions who want minimal lens thickness. These thinner, high index lenses give your patients more cosmetically appealing eyewear, and are especially recommended for drilled rimless eyewear, where thin is always in. When lens thickness consideration is essential, prescribe High Index lenses.

Younger Optics' High Index 1.74, 1.67, 1.60 lenses are made from MR-174™, MR-10™ and MR-8™ resins from Mitsui Chemicals.



New from Younger Optics: High-Index 1.74 lenses in clear and Transitions Signature



NuPolar High-Index 1.60 & 1.67 lenses are available in three colors and 8 base curves

High and Mid-Index AVAILABILITY

	1.55	1.60	1.67	1.74
Single Vision Clear Colors Base Curves	(C) .5, 1, 2, 4, 6, 8, 10	(C) .5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10	(C) 1, 1.5, 3, 4, 5, 6, 7, 9, 12	(C) .5, 1, 1.5, 2.5, 3.5, 5, 6, 7, 8, 9, 10
Single Vision Transitions Colors Base Curves		(T) (T) .5, 1, 2, 3, 4, 5, 6, 7, 8	(T) (T) (X) 1, 1.5, 3, 4, 5, 6, 7	(T) (T) .5, 1, 1.5, 2.5, 3.5, 5, 6, 7, 8, 9, 10
Single Vision NuPolar Colors Base Curves		(N) (N) (N) 1, 2, 3, 4, 5, 6, 7, 8	(N) (N) (N) 1, 2, 3, 4, 5, 6, 7, 8	
IMAGE® Progressive Colors Base Curves Add Range	(C) 2, 4, 6, 8 1.00 - 3.00		(C) (T) 1, 3, 5, 7 1.00 - 3.50	
FT28 Bifocal Colors Base Curves Add Range	(C) .5, 2, 4, 6, 8 0.75 - 4.00		(C) 1, 3, 5, 7 1.00 - 3.50	
FT35 Bifocal Color Base Curves Add Range	(C) .5, 2, 4, 6, 8 0.75 - 4.00			

Colors:

- (C) Clear
- (T) Transitions Signature Gray
- (T) Transitions Signature Brown
- (X) Transitions XTRActive Gray
- (N) NuPolar Gray-3
- (N) NuPolar Brown
- (N) NuPolar Green

For complete Rx ranges & tech specs, see youngeroptics.com/availability.

CAMBER™ LENS TECHNOLOGY

What is Camber Technology?

Camber Technology combines complex curves on both surfaces of the lens to provide excellent vision correction. The unique, continuously changing surface curvature of the specially designed lens blank allows expanded reading zones with improved peripheral vision.

When combined with a sophisticated back surface digital design, both surfaces work together to accommodate an expanded Rx range, offer better cosmetics (flatter) for many prescriptions, and yield user-preferred near vision performance.

Ideal Base Curve

When the power of a lens is paired with its ideal base curve, the wearer enjoys clearer vision, with minimal oblique astigmatism. For a progressive lens, the distance zone power calls for a flatter base curve, while the near zone power calls for a steeper base curve. However, most digitally surfaced progressive lenses are processed from a single-vision lens blank. This means the various powers must share a single base curve, one that may not be ideal for the near zone.

Front Surface Innovation

The Camber lens offers an elegant solution that represents the next step in digital progressive lens technology. The Camber lens blank features a variable base curve — a new front surface innovation that provides the optically ideal base curve in all viewing zones.

Each Camber lens blank comes from a section of the “Elephant’s Trunk” curve, creating a unique variable base curve front surface that continually increases in diopter from top to bottom. **[Figure A]**

This improved front surface profile gives each viewing zone a base curve that is well-suited to its function.

Compare Front Surfaces

A digital progressive lens processed from a single vision lens blank has one base curve from top to bottom. The Camber lens blank has a patented, continuously increasing base curve, ideal for the increasing power profile of digital progressive lenses. **[Figure B]**

With this innovative design, wearers enjoy noticeably increased acuity in the periphery of the distance zone, as well as a reading area that is more comfortable and easier to find with the eye.

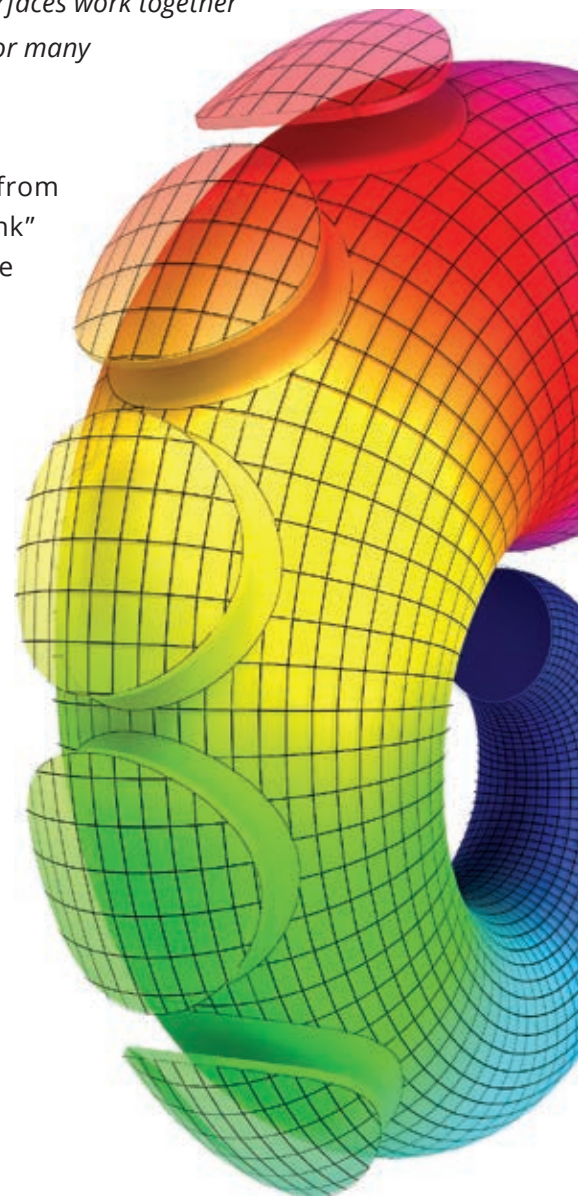
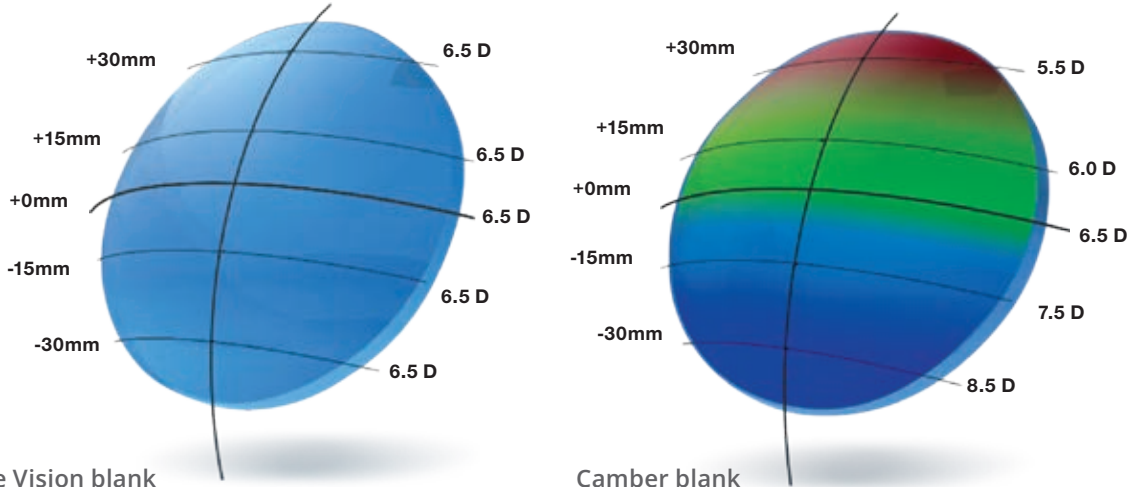


Figure A:
Elephant’s Trunk Curve

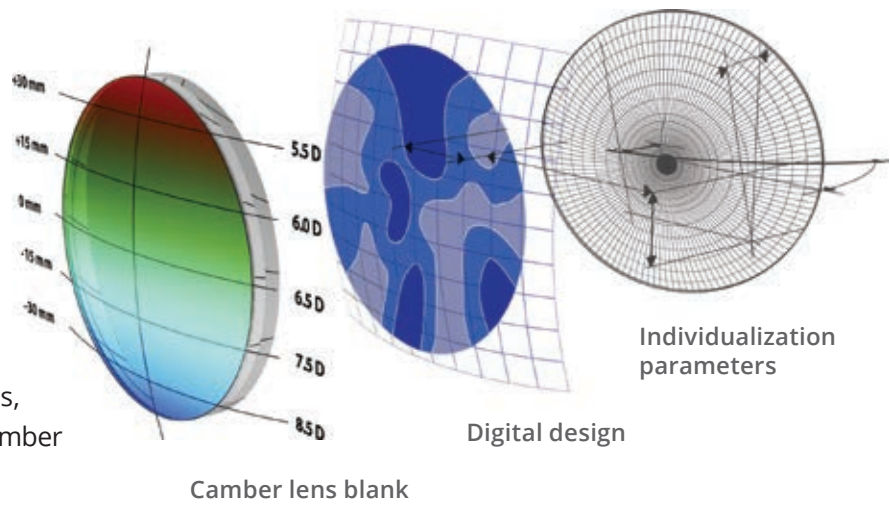


Figure B: Compare Front Surfaces



Merging Complex Curves

When the unique front surface is combined with a sophisticated back-side digital design, both surfaces work together to become the Camber finished lens. The design may be further enhanced by a set of individualization parameters, such as unique attributes of the frame and wearer preferences, to comprehensively customize the Camber lens for each individual wearer.



Compensation vs. Personalization

Digital lens design gives optical designers a lot of power to create lenses that are customized to each patient. But when a progressive lens is made from a single vision lens blank, the uniform front curve creates optical problems that lens designers must digitally correct. Rather than focusing every design decision on achieving a fully personalized lens, some of the design power must go toward "compensation correction."

Camber's new variable base curve technology reduces the need for compensation correction, allowing more digital design power to be used to refine and customize the design for each individual eye.

Educational & Marketing MATERIALS





























The Art & Science of Camber booklet

For more information about Camber lenses, visit camberlens.com.
 To request materials, contact marketing@youngeroptics.com.






Camber®

AVAILABILITY

	Hard Resin	Poly	Trilogy® Trivex®	1.60 Hi-Index	1.67 Hi-Index
Camber® Clear Base Curves	 0.50, 2, 3, 4, 5, 6, 7, 8	 0.50, 2, 3, 4, 5, 6, 7, 8	 0.50, 2, 3, 4, 5, 6, 7, 8	 0.50, 2, 3, 4, 5, 6, 7, 8	 0.50, 2, 3, 4, 5, 6, 7, 8
Camber Transitions® Signature™ Colors Base Curves	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8
Camber NuPolar® Colors Base Curves	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8 Available 2014 Qtr. 4	  0.50, 2, 3, 4, 5, 6, 7, 8	  0.50, 2, 3, 4, 5, 6, 7, 8 Available 2014 Qtr. 2

For complete Rx ranges & tech specs, see youngeroptics.com/availability.

Colors:

-  Clear
-  Transitions Signature Gray
-  Transitions Signature Brown
-  NuPolar Gray-3
-  NuPolar Brown

YOUNGER OPTICS

A Tradition of Optical Innovation



It all began more than 50 years ago with one man's vision to create a bifocal that wouldn't give away the wearer's age with its telltale lines. This desire led Irving Rips to develop the world's first "seamless bifocal," which was launched in 1955. Younger Optics—so named because the new lenses would make their wearer look younger—was born.

Today, Younger is the world leader in Rx polarized sunwear with NuPolar® brand lenses, and continues to be an innovative force in the optical world.

Since winning the first OLA Award of Excellence ever given (1987) for its specialty lenses, Younger has won a total of 24 OLA Awards—more than any other lens company.

From a company started in a garage to a world-class organization, Younger Optics was a true realization of the American Dream for founder Irving Rips, who was honored with a Lifetime Achievement Award in 1992.

In addition to being the world leader in prescription polarized lens sales, Younger Optics is also a leader in specialty products, and 3rd in the world in Transitions lenses. Younger has become an international company headquartered in the USA, with Sales and Distribution offices serving North America, Europe, Australia/Asia Pacific, Latin America and Brazil.