

*MORE CHOICES:*

*A GUIDE* TO  
**EVERYDAY**  
AND **SUNWEAR**  
*LENSES*

Transitions 

**YOUNGER  
OPTICS** 

**MORE CHOICES:**

**EVERYDAY**

# ADAPTIVE EYEWEAR AND **SUNWEAR:**

**For total vision care, eyecare professionals recommend that patients have both.**

## WHY TWO PAIRS?

Your eyes are subjected to many different types of light. Some of it can be uncomfortable for your eyes. The truth is, no single pair of lenses can provide the best vision in every circumstance.

From indoors to outdoors, work to play, changing weather and times of day — variable lighting conditions can impact your visual experience, and there is no one eyewear solution that is ideal for every situation.

This booklet will show you several lens options for everyday adaptive eyewear and polarized sunwear.

For your **EVERYDAY** eyewear, *Transitions® Signature®* lenses provide a superior visual experience by being more responsive to UV light in all conditions. *Transitions XTRActive®* lenses are always active for extra protection. *Transitions Vantage®* lenses offer variable polarization which provides crisper vision outdoors.

For **SUNWEAR**, *NuPolar®* lenses offer maximum darkness and are fully polarized to block blinding glare. *Transitions Drivewear®* sun lenses are the only polarized adaptive lenses designed specifically for the driving task. *Transitions Drivewear* sun lenses optimize color and darkness in varying daylight conditions, even behind the windshield.

## EVERYDAY LIGHT INTELLIGENT LENSES

**Transitions**<sup>™</sup>  
Signature<sup>®</sup>

Most popular light intelligent lenses -- completely clear indoors with just the right amount of tint outdoors

**Page 4**

**Transitions**<sup>™</sup>  
XTRActive<sup>®</sup>

Light intelligent lenses for those who prefer a darker everyday lens. Always active for extra protection.

**Page 6**

**Transitions**<sup>™</sup>  
Vantage<sup>®</sup>

Light intelligent lenses for crisp, sharp vision outdoors, even in bright glare

**Page 8**

## POLARIZED SUNWEAR LENSES

**Transitions**<sup>™</sup>  
Drivewear<sup>®</sup>

Light intelligent polarized sunwear— Best option for driving in varying daylight conditions

**Page 12**

**NUPOLAR**<sup>®</sup>  
*polarized lenses*

Polarized sunwear lenses that offer maximum polarization in many colors and treatments

**Page 14**

# Transitions™ Signature®

## LIGHT INTELLIGENT LENSES

**Outdoors in Daylight // Dark**

**Indoors & Nighttime // Clear**

Extra responsive to darken outdoors in all lighting and temperature conditions

Extra fast fade-back from dark outside to clear indoors

### **Notes for the eyecare professional:**

Best option for first-time Transitions wearer

For patients who want a completely clear lens indoors and at night

Available in classic gray and brown, as well as new amethyst (purple) and sapphire (blue)

Block 100% UVA and UVB light

Block a minimum 20% of blue light indoors, 85% outdoors\*

Ask your lens supplier for an up-do-date list of available styles and materials.

\* 380-460nm blue light. See Transitions Optical Inc.'s publication *Transitions Lenses and Blue Light - Technical Notes* for more details.



Simulated image.  
Request a demo  
to see lens  
performance.

# Transitions™ XTRActive®

LIGHT INTELLIGENT LENSES

**Outdoors in Daylight** // *Extra Dark*

**Indoors & Nighttime** // *Clear with a hint of protective tint*

Extra dark outdoors to protect your eyes from bright sun, even in the hottest conditions

Are able to moderately darken behind the windshield

**Notes for the eyecare professional:**

Best option for experienced Transitions wearers who are requesting a darker lens

If your patient is light sensitive or wants a slight tint in sunny indoor environments

Available in gray and brown

Block 100% UVA and UVB light

Block a minimum 34% of blue light indoors, 88% outdoors\*

Ask your lens supplier for an up-to-date list of available styles and materials.

\* 380-460nm blue light. See Transitions Optical Inc.'s publication *Transitions Lenses and Blue Light - Technical Notes* for more details.



Simulated image.  
Request a demo  
to see lens  
performance.

# Transitions™ Vantage®

LIGHT INTELLIGENT LENSES

**Outdoors in Daylight** // *Dark with variable polarization*

**Indoors & Nighttime** // *Clear with a hint of protective tint*

Polarization adjusts according to the level of glare outdoors

Noticeably crisper, sharper vision outdoors

## **Notes for the eyecare professional:**

A high-tech option for experienced Transitions wearers who are looking for the latest advancements in photochromics

For patients who want an everyday lens that will reduce outdoor glare

For wearers who appreciate a hint of tint indoors

Available in gray only.

Block 100% UVA and UVB light.

Block a minimum 34% of blue light indoors, 88% outdoors\*

Stays mostly clear in the car.

Ask your lens supplier for an up-do-date list of available styles and materials.

\* 380-460nm blue light. See Transitions Optical Inc.'s publication *Transitions Lenses and Blue Light - Technical Notes* for more details.



Simulated image.  
Request a demo  
to see lens  
performance.

# FREQUENTLY ASKED QUESTIONS ABOUT **SUNWEAR LENSES**

## **What is the difference between *everyday* and *sunwear* lenses?**

Everyday lenses can be worn indoors and at night, as well as outside. Sunwear is meant to be worn only outdoors in the day. It is recommended that each patient choose a pair of everyday lenses as well as a sunwear lenses, if possible.

## **What are polarized sunwear lenses?**

Polarized sunwear lenses contain an embedded film that filters out polarized sunlight reflecting from horizontal surfaces. This film blocks blinding glare, making it easier to see what's in front of you.

## **Why is it called “blinding” glare?**

It is called “blinding glare” because it significantly reduces your vision in the moment. It can be dangerous, especially when continuous, unimpaired vision is crucial, such as when driving.

## **What are the functional differences between *Transitions® Drivewear®* and *NuPolar® Infinite Gray™*?**

Both *Transitions® Drivewear®* and *NuPolar® Infinite Gray™* lenses are polarized, which means blinding glare is blocked at all times. *Transitions Drivewear* activates behind the windshield as well as outdoors, and has three color states optimized for driving. *NuPolar Infinite Gray* activates outdoors only and has a very wide range of transmission from light to dark gray.

## **How do polarized sunwear lenses differ from the variable polarization offered by *Transitions® Vantage®* lenses?**

*Transitions Vantage* lenses are almost completely clear indoors and at night. The level of polarization is generally less than a polarized sunwear lens and is dependent on the amount of UV light. Polarized sunwear lenses never get clear, but they provide max glare protection at all times. Both lenses have their situational advantages.



**BLINDING GLARE\***



\*Simulated images.  
Request a demo to see  
lens performance.

**POLARIZED LENSES\***

Blinding glare is caused by reflected light. The angle of reflection makes it hard to see what's directly ahead of you. Polarized sunwear lenses contain a film that blocks this glare. **Ask for a demonstration.**

# Transitions™ Drivewear®

## LIGHT INTELLIGENT SUNWEAR LENSES

**Outdoors in Overcast/Low Light** // *Olive green & polarized*

**Sunny Behind the Windshield** // *Copper & polarized*

**Outdoors in Daylight** // *Dark Brown & polarized*

The color and darkness of *Transitions® Drivewear®* lenses change according to daylight conditions for better vision, behind the windshield and outdoors.

Blocks blinding glare in all types of daylight.

Provides the right amount of light for daytime driving, no matter the weather.

### **Notes for the eyecare professional:**

Not to be worn for driving at night. Not advised for indoor use.

The best sunwear recommendation for commuters, professional drivers, or anyone who operates a vehicle during daylight hours.

*Transitions Drivewear* lenses contain a special Transitions technology: visible-light photochromics. This allows the lens to activate behind the windshield — even when no UV light is present.

Lenses block 100% UVA and UVB light.

Lenses block a minimum 80% of high energy blue light, blocks even more when activated by sunlight\*

Conform to ANSI Z80.3 Standards for Traffic Signal Recognition

Ask your lens supplier for an up-do-date list of available styles and materials.

\* Measured according to ISO 8980-3: 2013 and ISO 12311:2013 Blue light hazard function calculations. Light in the 380-500nm range of the electromagnetic spectrum is considered high energy blue light.



Overcast/Low Light

Olive green increases contrast in lower light



Sunny in the Car

Copper is ideal for driving in sunny weather



Sunny Outdoors

Dark brown provides comfort in outdoor sun



Simulated images.  
Request a demo to see lens performance.

# NUPOLAR®

## POLARIZED SUNWEAR LENSES

### **Outdoors in Daylight** // *Dark & polarized*

Block high levels of glare to provide comfortable vision in bright sunlight to make outdoor activities more enjoyable

Reduce squinting and crows' feet

Make driving safer by blocking blinding glare

Noticeably crisper, sharper vision outdoors

### **Notes for the eyecare professional:**

Block 100% UVA and UVB light

Conform to ANSI Z80.3 Standards for Traffic Signal Recognition

Blocks a minimum 80% of high energy blue light\*

For blue-light concerned patients, advise that NuPolar Brown and NuPolar Gradient Brown-Brown lenses block the most blue light.

Sunwear lenses are not recommended for indoors or night use.

*NuPolar® Infinite Gray™* is NOT a *Transitions* product. It uses a completely new UV-responsive photochromic that gives it a very wide range of absorption, depending on the amount of UV light exposure. The range of absorption is very wide, from very light (~35% transmittance) to very dark (~9% transmittance). That means it goes from lighter than Gray-1 to darker than Gray-3.

Ask your lens supplier for an up-do-date list of available styles and materials.

\* Measured according to ISO 8980-3: 2013 and ISO 12311:2013 Blue light hazard function calculations. Light in the 380-500nm range of the electromagnetic spectrum is considered high energy blue light.

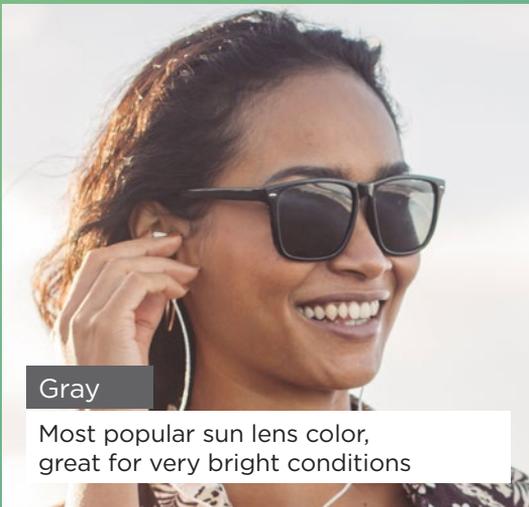


NuPolar Mirror Gold  
is one of several new  
color options.

# NUPOLAR®

## POLARIZED SUNWEAR LENSES

*NuPolar*® polarized sunwear lenses come in many lens color/treatment options. All block blinding sun glare outdoors and while driving. Ask your eyecare professional which colors are available for your prescription. Advanced customizations may also be available.





NuPolar® Infinite Gray™

This versatile new sunwear lens fluctuates from very light gray to very dark gray, depending on sunlight exposure. Polarized at all times.



GRADIENT Gray-Gray

Dark gray to light gray from top to bottom



GRADIENT Brown-Brown

Dark brown to light brown from top to bottom



GRADIENT Brown-Gray

Dark brown to light gray from top to bottom



MIRROR Gray-Silver

Dark gray lens with silver mirrorcoat



MIRROR Gray-Blue

Dark gray lens with blue mirrorcoat



MIRROR Brown-Gold

Dark brown lens with gold mirrorcoat

# DIFFERENT TYPES OF GLARE

## Blinding Glare

Eliminated by polarization



## Disabling Glare

Eliminated by photochromics and polarization



## Discomforting Glare

Eliminated by photochromics and polarization



## Distracting Glare

Eliminated by clear or photochromic lenses with AR coating



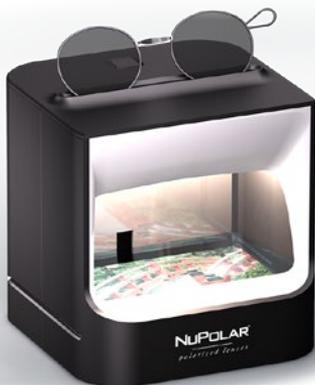
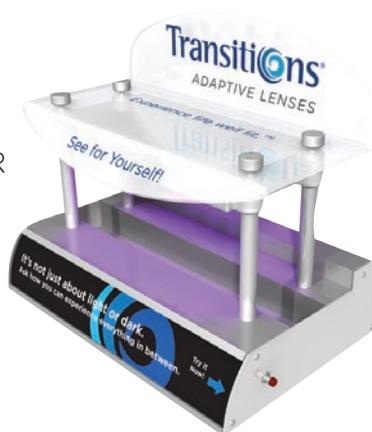
Anti-reflective (AR) coating is strongly recommended for all everyday lenses. On sunwear lenses, patients can benefit from back-side AR coating.

# ASK FOR A DEMONSTRATION

## Transitions™ light intelligent lenses

TRANSITIONS LENS UV DEMONSTRATOR  
Activate all of the different everyday  
Transitions lenses while indoors.

ECPs: More info at [transitionsPRO.com](http://transitionsPRO.com)



## NUPOLAR® *polarized lenses*

NUPOLAR LED GLARE DEMONSTRATOR  
Battery-operated unit creates bright  
glare indoors to show the glare-blocking  
power of polarized lenses to patients.

ECPs: Request from your lab or email  
[marketing@youngeroptics.com](mailto:marketing@youngeroptics.com)



NUPOLAR GLARE DEMONSTRATOR  
Smaller desktop unit simulates  
dashboard glare to demonstrate  
NuPolar polarized lenses.

ECPs: Request from your lab or email  
[marketing@youngeroptics.com](mailto:marketing@youngeroptics.com)

TRANSITIONS DRIVEWEAR GLARE WHEEL  
Show patients how Transitions Drivewear  
polarized photochromic sun lenses cut glare  
and adjust color in different sunlight conditions.

ECPs: Request from [marketing@youngeroptics.com](mailto:marketing@youngeroptics.com)





*Transitions, Transitions Signature, XTRActive, and Vantage* are registered trademarks and *Transitions Light Intelligent Lenses, Chromea7* and the *Transitions* logo are trademarks of Transitions Optical, Inc., used under license by Transitions Optical Limited. *Drivewear* and *NuPolar* are trademarks of Younger Mfg. Co. and are registered in the U.S.A. Photochromic and variable polarization performance is influenced by temperature, UV exposure, and lens material.

For a complete list of materials and styles, refer to the availability charts provided by Transitions Optical and Younger Optics. [TransitionsPRO.com](http://TransitionsPRO.com) [YoungerOptics.com/Availability](http://YoungerOptics.com/Availability)