

Art & Science of

XTRACTIVE[®]
POLARIZED

**YOUNGER
OPTICS** 
The Optical Lens Innovators

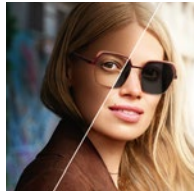
Transitions[™] 

Improving Quality of Vision

Ophthalmic optics is one of the greatest inventions in human history. It extended the productive lives of people by decades, because it enabled good vision later in life.



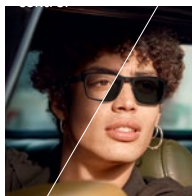
It has contributed to world literacy, and has given many artists, scientists, and artisans the power to create with clear, comfortable vision.



Transitions®
World's leading photochromic technology



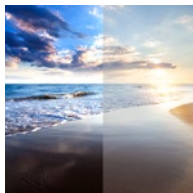
Advanced optical polymers
Allow lighter, thinner & stronger lenses



Transitions® XTRActive®
For those who spend time outdoors or need additional protection



Progressive lens technology
Allows presbyopes to see at any distance



Dynamic Polarization
Blocks blinding glare and increases contrast



A/R coating
Reduces lens surface reflections



Individual freeform lenses
Are custom made to match the unique features of every patient

IMAGINE,
all these technologies
working together to improve
the quality, comfort and
protection of your vision,
all in a single lens.

Introducing **Transitions**
XTRACTIVE[®]
POLARIZED

Indoors

Transitions XTRActive Polarized lenses are designed to have a hint of tint inside to provide extra protection from harsh indoor light.



Behind the windshield of the car

Transitions XTRActive Polarized lenses moderately darken without polarization behind the windshield of the car to reduce bright light while driving.



Outdoors

XTRActive photochromic dyes enable the lens to achieve extra darkness in bright sunlight conditions outdoors.*



Blinding glare conditions

In bright outdoor conditions, dynamic polarization allows the lens to reach approximately 90% polarization efficiency when the lens is at its darkest state of activation.*



*Photochromic and polarization variation is influenced by temperature, UV exposure, and lens material.

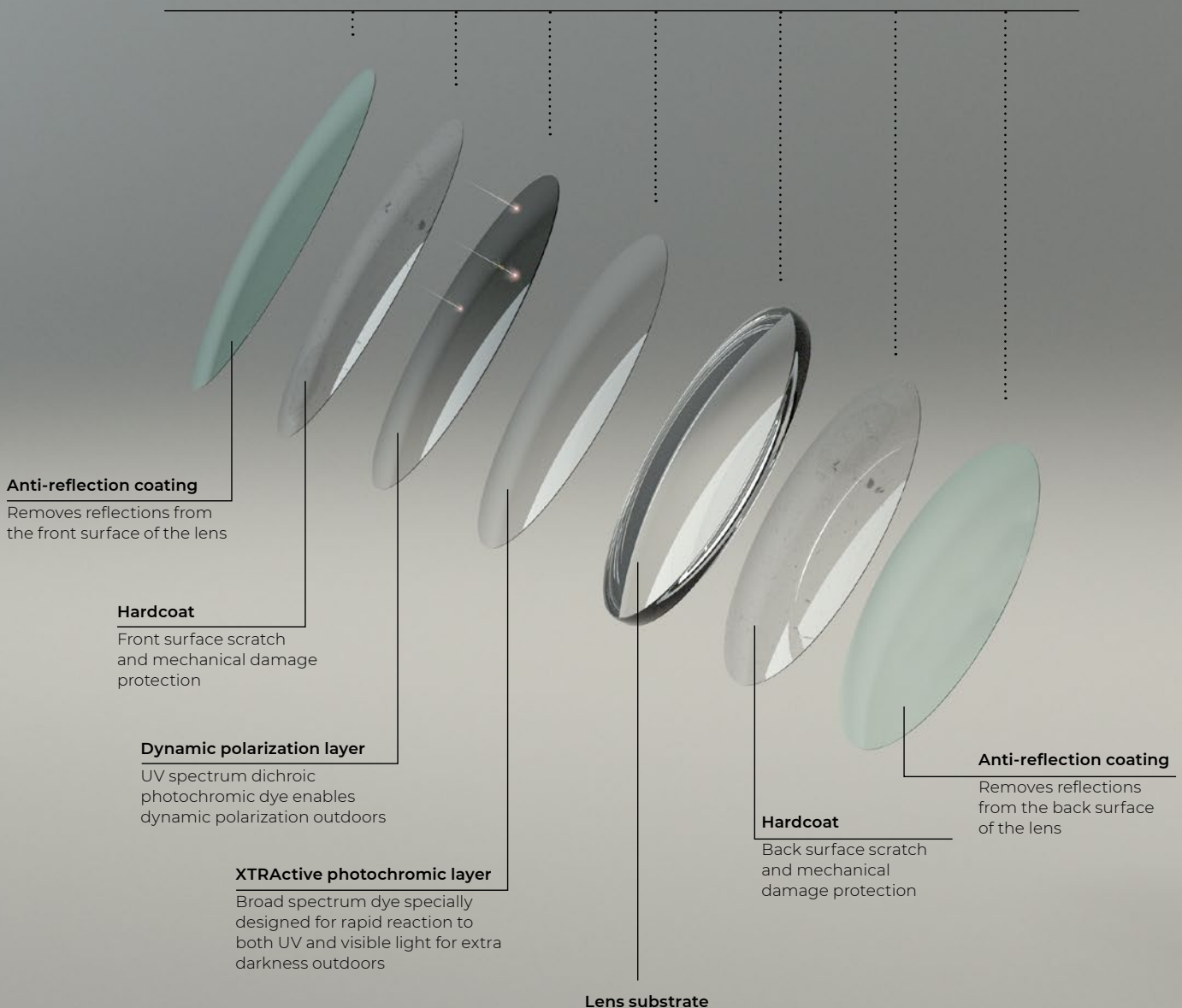
The only and best ever clear to polarized lens

Advanced Technology of Transitions XTRActive Polarized lenses

The development of this technology took more than 16 years and represents a breakthrough in vision quality.

It combines the latest Transitions photochromic technologies with dynamic polarization.

Transitions XTRActive Polarized lens technology layers



Transitions[™] XTRACTIVE[®] POLARIZED

Faster & Darker Transitions XTRActive + Dynamic polarization

New Generation XTRActive technology.
The first product ever released using this new dye technology.

Polarization power dynamically adjusts according to sun exposure
using revolutionary UV-activated dichroic photochromic molecules.

Faster & Darker XTRActive Photochromic technology

INDOORS/AT NIGHT

Lenses are mostly clear and offer more protection from harmful blue light than clear lenses indoors¹

BRIGHT LIGHT BEHIND CAR WINDSHIELD

Visible light activation offers moderate darkening to protect from uncomfortable brightness & harmful blue light.

BRIGHT LIGHT OUTDOORS

Lenses get very dark for max comfort, blocking harmful blue light and 100% UV.

Dynamic polarization

BLINDING LIGHT OUTDOOR CONDITIONS

Dichroic molecules are fully activated and aligned to absorb up to 90% of blinding horizontal glare²

OUTDOORS

Dichroic molecules activate dynamically in sunlight to reduce blinding glare according to sun exposure

INDOORS/IN THE CAR

Dichroic polarizing molecules are not activated

¹Harmful blue light is measured between 380-460nm using ISO 8980-3 annex B

²Claim is based on tests on polycarbonate lenses at 23°C



Wearers' satisfaction & experience

Test wearers report high rates of satisfaction with Transitions XTRActive Polarized. This product darkens quickly when moving from indoors to outdoors, provides outdoor protection from blinding glare when needed, and lightens quickly when returning indoors. No other lens product matches this revolutionary performance.



100%

overall performance satisfaction



100%

satisfaction with rate of change from indoors to outdoors



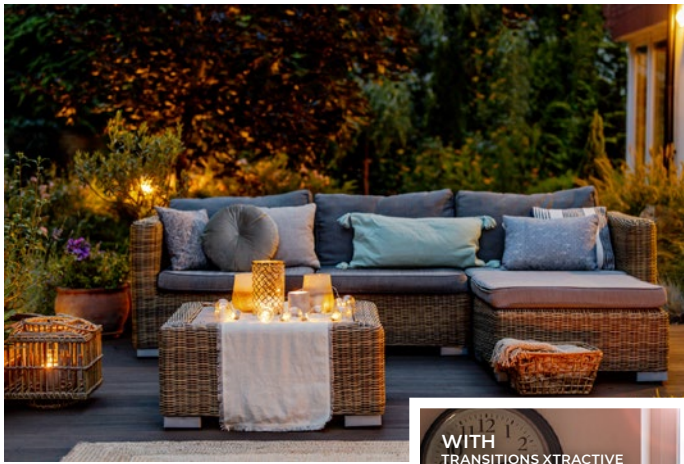
87.5%

satisfaction with glare reduction

"Above all else, Transitions XTRActive Polarized lenses might just be the most comfortable lenses I have ever worn."

David Rips
President & CEO,
Younger Optics

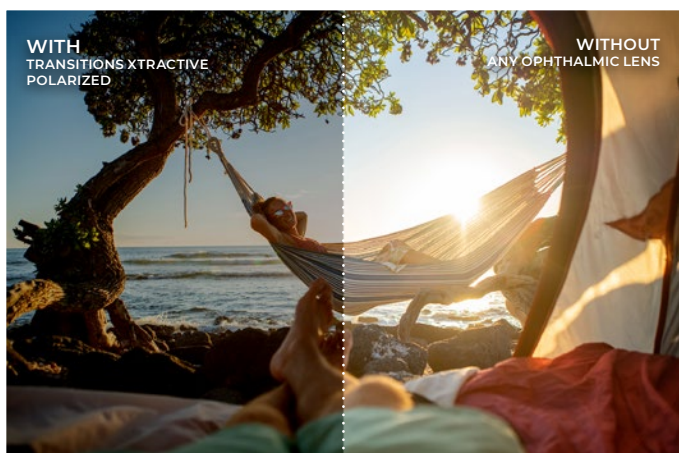
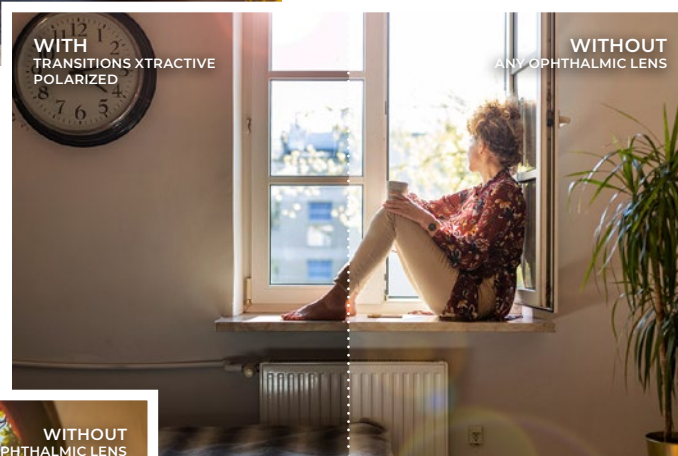
What wearers get with Transitions XTRActive Polarized lenses



Light protection tint
in indoor or low light
conditions.

Latest technologies

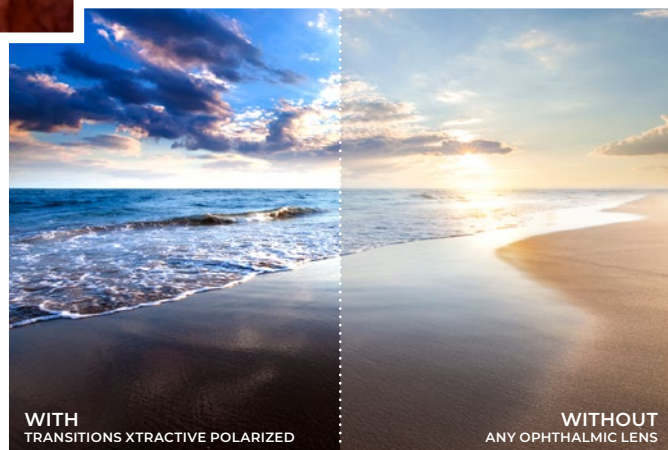
All the latest technological
developments in optics and
material science in one lens.







Darkest protective tint

in outdoor bright light conditions.

Blinding glare protection
outdoors in very bright light
conditions using dynamic
polarization technology.



Transitions Products Family

				
Users	Everybody	Light sensitive people	Light sensitive people Active outdoor lifestyle	Everybody who drives
Clarity indoors	fully clear	clear with a hint of blue light protective tint	clear with a hint of blue light protective tint	Special contrast tint 68% transmittance + polarization
Outdoor performance	Dark ~11% transmittance	Extra dark ~8% transmittance	Dark ~12% transmittance + dynamic polarization	Dark ~12% transmittance + full polarization
UV protection	100%	100%	100%	100%
Harmful blue light protection	High	Very high	Very high	Very high
Colors	Gray, Brown Amethyst, Sapphire	Gray, Brown	Gray	Variable from olive green to copper to dark brown
Polarization	No	No	Dynamic polarization from 0% - 90%	Always polarized 99%
Activation in hot climates	Good	Excellent	Excellent	Excellent
Activation in the car	No	Partial	Partial - no polarization	Yes, always polarized
Long lasting quality	Excellent	Excellent	Excellent	Excellent

YOUNGER OPTICS 
The Optical Lens Innovators

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