## **TRANSITIONS® GEN S<sup>™</sup> - ULTRA-DYNAMIC LENS** FOR IMPROVED VISION

Dynamic Light Modulation derives from the common goal that any eye care professionals pursues, that is to enhance vision. Light is essential for vision. Visual quality depends not only on vision correction but also on daily light exposure<sup>1</sup>. The eyes require time and proper light conditions to continuously adjust and maintain sharp and stable vision<sup>23</sup>. Effective light modulation necessitates highly responsive technology that can be synchronized with physiological needs. Transitions® GEN S™ is designed to complement the eye's natural ability, ensuring stable and consistent visual performance throughout the day for an enhanced vision experience for the wearer.





**Effortless visual experience** for ultimate comfort<sup>7</sup>

Transitions® GEN S™ is not just about performance in ideal viewing conditions – it's about providing patients with stable vision no matter who they are, where they are, what time of day it is, or what the weather is like. Transitions® GEN S™ is supported by three clinical trials and measured across more than 1,300 real-world lighting conditions, demonstrating consistent, science-based performance.

# **GEN S<sup>™</sup> STABILIZES LIGHT DOSE THROUGHOUT THE DAY<sup>5</sup>**

Transitions® GEN S<sup>™</sup> lenses regulate the amount of light entering the eye, maintaining it within an ideal range for optimal vision (1,000-10,000 lux) in 90% of outdoor conditions, therefore far outperforming static clear lenses (30%). This performance was evaluated using our expanded Transitions® Life 360° real-world light database, capturing data from 1,300 outdoor scenarios across 12 countries, covering all four seasons, at different times of the day, orientations, and head inclinations.

790% Light dose stabilization VS 30% with clear lens<sup>4,8</sup> Clear lens Transitions® GEN S™ With Transitions® GEN S™, patients do not need to adapt as much - the lenses do. Designed to

perform beyond ideal conditions, Transitions GEN S<sup>™</sup> dynamically responds to changes in light, enabling stable vision whether it's sunny, cloudy,

indoors, or outdoors, at any time of day.

Transitions

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Ideal range Overexposure of optimal vision to light light exposure density map within the eye 1K Lux 10K Lux

Wang, Shuxiao and Jianping Zhao. New prospectives on light adaptation of visual system research with the emerging knowledge on non-image-forming effect. Frontiers in Built Environment (2022).
Casado P, Ávila FJ, Collados MV, Ares J. A study on disability glare vision in young adult subjects. Sci Rep. 2023 Mar 2;13(1):3508.
Niemeyer JE, Paradiso MA. Contrast sensitivity, V1 neural activity, and natural vision. J Neurophysiol. 2017 Feb 1;117(2):492-508.
Coralie Barrau, Camille Prince, Camille Ehrishmann, Emmanuel Kobia-Acquah, Des Coughlan, Joshua Hazle, Chris Baldy; Ultra-Fast Light-Adaptive Lens stabilizes light exposure across a comprehensive

real-world light database, Presented at the European Academy of Optometry and Optics 2025

5. Better vision in challenging and varying light conditions, notably when moving from a bright to a darker environment (tested with Grey Transitions® GEN S" lenses compared to Grey Transitions® Signature® GEN S" lenses and to static clear lenses) and in bright to very bright light situations (tested with Grey Transitions® GEN S" lenses compared to static clear lenses). 6. Raul Duarte-Toledo, Juan Mompeán, Alba M. Paniagua-Diaz, Guillermo Perez, Emmanuel Kobia-Acquah, Nacer Lakhchaf, Daniel Parker, Coralie Barrau, Pablo Artal; Contrast Sensitivity with Photochromic Lenses When Transitioning from Bright to Dark Environments. AAO 2024, P-11 Assessing Visual Function, Thursday, November 7, 2024.

7. Harth JB, Hammond BR, Wysocki CJ, Renzi-Hammond LM. New photochromic spectacle lenses improve glare discomfort and photostress recovery. Results in Optics. 2025 Feb 1;18:100763. 8. Computational data measurement in real-word outdoor light with simulated Transitions<sup>®</sup> GEN S<sup>™</sup> compared to static clear lens based on Spectral irradiance (mW/cm<sup>\*</sup>) from 280 nm to 800 nm. Database

of 1,300 real light exposure conditions across 11 countries, cloudy and sunny weather, time of day -Morning, Afternoon-, 4 seasons.

#### LIGHT CHANGES ALL DAY LONG, YOUR VISION SHOULDN'T



## TRANSITIONS<sup>®</sup> GEN S<sup>™</sup> SPEEDS UP VISUAL RECOVERY FOR BETTER VISION<sup>5,6,7</sup>

Transitions<sup>®</sup> GEN S<sup>™</sup> improves visual performance, especially in challenging light conditions–like bright light or changing light–by optimizing the eye's adaptation to light through an optimal modulation of the light that enters the eye. This ensures a more consistent and stable vision throughout the day, compared to traditional clear lenses.



#### LIGHT CHANGES ALL DAY LONG, YOUR VISION SHOULDN'T