

Transitions®

GENIUS
Gen[™]S

FREQUENTLY
ASKED QUESTIONS



LIGHT REACTIVE LENSES

01

What are Transitions® GEN S™ lenses?

Transitions® GEN S™ provides wearers with significant benefits.

GEN SPEED™

→ **Transitions® GEN S™ allows you to embrace light in harmony with your life.**

Transitions® GEN S™ is our fastest dark lens^{1*} in the clear to dark photochromic category. Its light adaptability is unprecedented for a Transitions® lens: activating in 25 seconds^{2*} and fading back in less than 2 minutes.^{3*}

GEN STYLE™

Transitions® GEN S™ allows you to express yourself with endless pairing possibilities.

Transitions® GEN S™ is available in 8 beautiful colours: sapphire, amethyst, amber, emerald, grey, brown, graphite green, and a brand new colour: ruby. Transitions® GEN S™ offers more vibrant colours with ultimate light protection.⁴ Additionally, every lens colour stays true to tone across activation, thus delivering thousands of stunning mid-tints. Transitions® GEN S™ offers endless pairing possibilities. It is compatible with any frame, thus giving wearers the creativity to make a complete pair that will compliment or even up their style.

GEN SMART™

→ **Transitions® GEN S™ provides wearers with an elevated visual experience in all light conditions.**

Transitions® GEN S™ adapts to the speed of life, so whether it's dark or bright, indoors or outdoors, it all becomes by essence, seamless and smooth. In fact, 88% of wearers agreed that Transitions® GEN S™ lenses adapted so fast to changes in light that they don't or barely notice the changes.^{5*}

→ **Transitions® GEN S™ offers ultimate light protection.**

— When fully darkened, Transitions® GEN S™ lenses are category 3 sun lenses, blocking 100% UVA & UVB rays and filtering up to 85% of blue-violet light⁴ outdoors. When clear, Transitions® GEN S™ filters up to 32% of blue-violet light indoors.

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

1. For grey lenses in the clear to dark (category 3) photochromic category. Transitions® GEN S™ lenses fade back faster to 70% transmission while achieving less than 14% transmission when activated at 23°C. 2. For grey polycarbonate & CR39 lenses achieving 18% transmission at 23°C. 3. For grey polycarbonate & CR39 lenses with a premium anti-reflective coating fading back to 70% transmission at 23°C. 4. Block 100% UVA & UVB rays, darken outdoors & filter up to 32% of blue-violet light indoors & up to 85% outdoors. Blue-violet light is measured between 400nm and 455nm (ISO TR 20772:2018) across colours on polycarbonate & CR39 lenses. 5. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 167 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™.

02

Are Transitions® GEN S™ lenses for all my patients?

Yes! Transitions® GEN S™ is a lens that is suited to all your patients of any age, gender, lifestyle or previous lens experience. Transitions® GEN S™ has reached a performance level that redefines what eyewear has meant so far. This is a great product to recommend to all your patients including those who have never worn Transitions® before.

PRODUCT PERFORMANCE

03

Are Transitions® GEN S™ lenses clear indoors?

Yes, Transitions® GEN S™ are fully clear indoors. The lenses are category 0 when unactivated and filter up to 32% of blue-violet light.¹

04

How much time does it take for Transitions® GEN S™ to get back to clear?

Transitions® GEN S™ lenses are ultra responsive to light, activating in seconds and fading back in less than 2 minutes.²

05

What protection does Transitions® GEN S™ offer?

Transitions® GEN S™ offers wearers the ultimate light protection. The lenses darken outdoors reaching category 3 across all colours, they block 100% of UVA and UVB rays and filter up to 32% of blue-violet light¹ when clear indoors and up to 85% when fully activated.¹

06

Does Transitions® GEN S™ maintain photochromic performance over the lifetime of a standard prescription?

Transitions® GEN S™ provides long-lasting photochromic performance over time. Overall, Transitions® GEN S™ offers optimal performance and consistency across all colours.

^{*}Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

¹ For polycarbonate and CR39 lenses across colours. Blue-violet light is measured between 400nm and 455nm (ISO TR 20772:2018). ² For grey polycarbonate & CR39 lenses with a premium anti-reflective coating fading back to 70% transmission at 23°C.

07

How fast does Transitions® GEN S™ achieve full darkness?

Transitions® GEN S™ is ultra-responsive to light, fully activating in 25 seconds.^{1*} All colours reach category 3 levels of darkness², achieving the same darkness levels as a sun lens.

08

How does temperature impact Transitions® GEN S™ performance?

Photochromic performance depends on UV exposure and temperature. Transitions® GEN S™ performs better than the previous generation in cold temperatures, fading back up to 2x faster at 10°C.^{3*} The lenses also perform better than the previous generation in hot temperatures, fading back up to 1.8x faster at 35°C.^{4*} At 35°C, Transitions® GEN S™ is as dark as the previous generation.^{5*}

BENEFITS

09

What is prescription lens wearers' feedback on Transitions® GEN S™?

In 2023, Transitions Optical conducted a study where wearers experienced Transitions® GEN S™ lenses. As a result of this study, we can confidently say that Transitions® GEN S™ represents a real shift in wearers' perception of dynamic lenses.

GEN SPEED™

- Wearers perceived the responsiveness of the lenses to light. In fact, 88% of wearers agreed that the lenses adapted so fast to light that they didn't or barely noticed the change.^{6*}

GEN STYLE™

- These lenses are embraced by wearers for their style and their appeal, with 95% of wearers agreeing that the ability to complement their frames with a choice of Transitions® GEN S™ colours makes glasses more fun and stylish.^{7*}
- The aesthetic appeal of Transitions® GEN S™ was evident, with 87% of wearers agreeing they liked the way they —looked when wearing Transitions® GEN S™ lenses.^{8*}

***Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.**

1. For grey polycarbonate & CR39 lenses achieving 18% transmission at 23°C. 2. For polycarbonate & CR39 lenses across colours achieving 18% transmission at 23°C. 3. For grey polycarbonate and CR39 lenses fading back to 70% transmission. 4. For grey polycarbonate and CR39 lenses fading back to 70% transmission. 5. For grey polycarbonate and CR39 lenses. 6. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™ and Ray Ban frames. 7. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™ and Ray Ban frames. 8. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 135 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™.

GEN SMART™

- Wearers also appreciated how Transitions® GEN S™ seamlessly supports natural vision, with 91% agreeing vision felt natural in all light conditions.*

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What are light reactive lenses?

When indoors, Transitions® GEN S™ lenses are fully clear. When outdoors, Transitions® GEN S™ adapts to different light conditions; the colour changes according to light exposure, but the consistency is maintained. The darkness intensity evolves depending on UV exposure and temperature.

TECHNOLOGY

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What is advanced symbiotic technology?

Transitions® GEN S™ uses advanced symbiotic technology. The design mimics a natural ecosystem, with carefully considered dyes & matrix to give maximum performance. Components are specially conceived to seamlessly interact together.

This re-engineered matrix architecture is a new molecular structure designed to create the right balance between soft and hard spaces. The dyes associated with the matrix offer better clarity indoors with more vibrant and richer colours, whilst maintaining the level of darkness required for category 3.

Overall, the technology provides patients with a high-efficiency lens that absorbs energy from light quicker, activates and fades back faster while offering exceptional darkness.

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What are Transitions® GEN S™ super-charged dyes?

Dyes are molecules navigating in the matrix. We reworked Transitions® GEN S™ dyes to be able to absorb more energy, improving kinetics inside the matrix and increasing the colour vibrancy to achieve the right balance between colour & performance.

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

1. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™.

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What is Transitions® GEN S™ new matrix architecture?

A matrix is the chemical structure containing the dyes. Our new matrix features the perfect balance of soft and hard spaces: soft spaces provide flexibility for our supercharged dyes to activate and fade back freely, and hard spaces offer structural integrity and robustness, giving the necessary support to maintain lens durability for everyday use.

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How did Transitions® manage to reach this level of performance?

With more than 34 years of photochromic expertise, Transitions Optical is a pioneer in photochromic lenses. Transitions® GEN S™ is the result of 5 years of research & development efforts with more than 100,000 lenses tested to reach the advanced symbiotic technology we have today, where dyes and matrix are specifically designed to seamlessly interact with one another, embracing the synergy of speed, darkness and colour without sacrificing any other performance aspect.

HOW TO GET A YES

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How to frame the opportunity with Transitions® GEN S™?

With Transitions® GEN S™, we intend to reframe prescription eyewear and transform the lens industry with ground-breaking technology to offer an elevated vision experience to the consumers. The objective is to gain penetration using 4 key steps and upgrade clear lens wearers to dynamic lenses. We want to attract younger wearers to make them discover and adopt Transitions® products.

- **Step one:** Offer a game-changing product with a revolutionary technology.
- **Step two:** Bring more awareness to Transitions® by leveraging our new campaign and all the tools available.
- **Step three:** Provide a clear and impactful message on the benefits of Transitions® GEN S™ by developing more on our pillars. GEN Speed™, GEN Style™, GEN Smart™.
- **Step four:** Get wearers to try the product.

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What is the best way to demonstrate Transitions® GEN S™ to my patients?

Trial experience is key. Transitions® GEN S™ has been designed for everyday wear, and that is where the lens is at its best. Our recommendation is to show the lenses' activation in real time and in real conditions, ideally using natural sunlight to render the best colour. Where it is not possible to demonstrate the lens using sunlight, we recommend:

- Using our new in-store demonstration tools to activate the lenses, making sure that the demonstration follows Transitions® guidelines by fully activating the lens from clear to dark (category 0 to category 3) homogeneously
- Using the video filming of the lens activation as a last resort

To demonstrate the pairing possibilities that only Transitions® GEN S™ colour palette can enable, we recommend mounting Transitions® GEN S™ lenses in beautiful frames.

An enhanced colour palette gives wearers the chance to personalise their glasses to fit their style. Transitions® GEN S™ colour range is a key asset and a powerful tool to recruit new wearers. It is worth noting that the impressive range of colours available appeals most to clear lens wearers. Transitions® GEN S™ offers an unprecedented choice when it comes to pairing lenses and frames.

95% of wearers agreed that the ability to complement their frames with a choice of Transitions® GEN S™ colours makes glasses more fun and stylish.¹

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How can I introduce Transitions® GEN S™ to patients?

Transitions® GEN S™ is our perfect everyday lens. It is dynamic, ultra-responsive to light, offers a spectacular colour palette and provides an effortless vision experience.

We have conducted consumer research and product testing during which Transitions® GEN S™ was compared to clear and other everyday photochromic lenses, so that you can confidently tell your patients that they will love Transitions® GEN S™.

For clear lens wearers:

- Ask: How often are you exposed to different kinds of light throughout the day, leading to light stress for your eyes such as fatigue, discomfort, etc.?
- Use the Transitions® light sensitivity quiz transitions.com/quiz/
- Share that 81% of current clear lens wearers agreed that Transitions® GEN S™ lenses are the best option for an everyday pair of glasses.²

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

1. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™ and Ray Ban frames. 2. Source: Wearers test conducted by an external market research agency in the US in Q1 2023 with 93 Rx lens wearers who previously wore clear lenses, wearing 1.67 index lenses with a premium AR coating in grey Transitions® GEN S™.

For other photochromic lens wearers:

- Ask: What would you like to improve about your current lenses?
- Share that Transitions® GEN S™ lenses use advanced symbiotic technology which optimise light-reactivity when activating and fading back without compromising on darkness and light protection.
- Point out that 88% of wearers agreed that Transitions® GEN S™ lenses adapted so fast to changes in light that you don't or barely noticed the changes,^{1*} you just see well in all light situations.^{2*}
- Highlight that Transitions® GEN S™ offers the widest colour availability with 8 exclusive beautiful colours, including our brand new addition: Transitions® GEN S™ ruby.

For existing Transitions® Signature® Gen 8™ lens wearers

- Ask: What would you improve about your current lenses?
- Share that Transitions® GEN S™ lenses are the new generation of the lenses they already love. With fadeback up to 2 times faster,^{3*} better visual quality, faster,⁴ improved colour vibrancy and colour consistency and a new colour added to the range, Transitions® GEN S™ is nothing like they have ever experienced before.
- Point out that 92% of wearers agreed that these lenses must be tried on to fully realise what they can bring to you.^{5*}

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How can Transitions® GEN S™ outperform clear lenses? How can Transitions® GEN S™ recruit clear wearers? Why recommend Transitions® GEN S™ as a first pair?

With Transitions® GEN S™, we define a new lens standard that offers a new vision experience to wearers.

Transitions® GEN S™ is an opportunity to recruit wearers currently buying clear lenses:

- Wearers are expecting a lens that goes beyond correction⁶
- Enhanced vision means seeing well at all times, regardless of the light environment.

***Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.**

1. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™. 2. Source: Wearers test conducted by an external market research agency in the US in Q1 2023 with 133 Rx lens wearers wearing 1.67 index lenses with a premium AR coating in grey Transitions® GEN S™. 3. Compared to the previous generation. For grey polycarbonate & CR39 lenses fading back to 70% transmission at 23°C. 4. Vision quality improved in challenging light conditions, notably when moving from a bright to a darker environment (Source B, Transitions® GEN S™ compared to Transitions® Signature® GEN 8™), in bright to very bright light situations (source A, Transitions® GEN S™ compared to clear lenses) and in low light with peaky stray light (source A, Transitions® GEN S™ compared to clear lenses). Source A: Subject-masked cross-over randomised controlled investigation performed in 2023 on 30 healthy participants (19.2 ± 1.3 years). Testing light stress (discomfort and disability glare, photostress recovery) with the clear and darkest states of grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to clear 1.6 index lenses with a premium anti-reflective coating. Principal Investigator: Prof. Billy R. Hammond. Source B: Subject-masked cross-over randomised controlled investigation performed in 2023 on 10 healthy pre-trained participants (29.5 ± 4.0 years). Testing contrast sensitivity during fadeback with grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to grey Transitions® Signature® GEN 8™ 1.6 index lenses with a premium anti-reflective coating. Principal Investigator Prof. Pablo Artal. Accepted abstract at ARVO 2024. Duarte-Toledo R, Mompeán J et al, A new photochromic lens improves contrast sensitivity during fade back. 5. Source: Wearers test conducted by an external market research agency in the US in Q1 2023 with 133 Rx lens wearers wearing 1.67 index lenses with a premium AR coating in grey Transitions® GEN S™. 6. Source: 93% of wearers wanted or were interested in lenses that enhance their vision beyond vision correction. Transitions Optical, Consumer study on the link between Vision & Protection, external research agency, (CAWI), US, Q4 2021, N= 1,000.

USAGE & AVAILABILITY

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Is Transitions® GEN S™ suitable for driving?

Yes, Transitions® GEN S™ lenses are suitable to wear while driving. They activate up to category 1 levels of darkness behind the windscreen. At nighttime, Transitions® GEN S™ remains fully clear. All Transitions® GEN S™ colours meet major traffic light recognition standards.¹

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Can Transitions® GEN S™ be paired with any frames?

Yes, Transitions® GEN S™ can be paired with any frame. Transitions® GEN S™ is available in 8 colours. This wide range of colour options was designed to offer wearers endless pairing possibilities.

In fact, 95% of wearers agreed that the ability to complement their frames with a choice of Transitions® GEN S™ colours make glasses more fun and stylish.^{2*}

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When will Transitions® GEN S™ be available? In which colours & materials?

Transitions® GEN S™ is available in all colours worldwide. The availability of Transitions® GEN S™ in different designs and materials will vary depending on regions.

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

1. ISO 8980-3 2013, ANSI Z80.3 2015, AS/NZS 1067 2016 and ISO 12311 2013, based on tests across colours on polycarbonate. 2. Source: Wearers test conducted by an external market research agency in the US in Q1 2023, with 133 Rx lens wearers wearing 1.67 index lenses with a premium anti-reflective coating in grey Transitions® GEN S™ and Ray Ban frames.

TRANSITIONS® PORTFOLIO

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Are Transitions® GEN S™ replacing Transitions® Signature® Gen 8™ lenses?

Yes, Transitions® GEN S™ will replace Transitions® Signature® Gen 8™, that will be discontinued.

Our main message is, however, not to compare generations between each other. Transitions® GEN S™ was not made to be better than Transitions® Signature® Gen 8™ but, rather, to better answer wearers' needs and convert younger wearers.

Our strategy is to recruit clear lens wearers. We can assume that wearers, who are not familiar with photochromic lenses, don't know anything about the previous generations and won't mention any barriers that may be mentioned today (e.g. fadeback speed).

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Why a new Transitions® product?

Today, we know that wearers' expectations are changing:

- They go far beyond correction only, as 9/10 expect more from a lens than just vision correction.¹
- Wearers are also telling us that, in a world asking more and more from their eyes, dynamic lenses are the future.²

With Transitions® GEN S™ we provide the possibility for all wearers to upgrade all prescription glasses:

- **Shift from static to dynamic glasses**
Transitions® GEN S™ comes as the perfect solution to navigate life effortlessly.
They adapt amazingly fast to all light conditions, providing ultimate light protection.³
- **Go beyond basic and welcome the fantastic**
Transitions® GEN S™ upgrades glasses for a better vision experience, comfort & look.
Its vibrant colour palette energised by the sun fits all frames and complements, or even boosts every style.
- **Evolve from "must-wear" to "love-to-wear"**
Transitions® GEN S™ is the smart choice for freedom, comfort and style. Enjoy a clear lens indoors, endless pairing possibilities and radiant colours outdoors!

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

1. 93% of wearers wanted or were interested in lenses that enhance their vision beyond vision correction. Transitions Optical, Consumer study on the link between Vision & Protection, external research agency, (CAWI), US, Q4 2021, N= 1,000. 2. *77% agree photochromic lenses are the future Transitions Optical, Consumer Sentiment and Behaviour, US, Q4 2023, Viktahu & Dynata, N=1,000 Rx wearers. 3. Block 100% UVA & UVB rays, darken outdoors & filter up to 32% of blue-violet light indoors & up to 85% outdoors. Blue-violet light is measured between 400nm and 455nm (ISO TR 20772:2018) across colours on polycarbonate & CR39 lenses.

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How does Transitions® GEN S™ fit into the Transitions® portfolio with Transitions® XTRActive® new generation, Transitions® XTRActive® Polarized™ and Transitions® Drivewear?

For light sensitive patients, or patients who desire high temperature performance or extra darkness outdoors, Transitions® XTRActive® new generation lenses are an ideal choice as they deliver the best XTRA darkness and the best XTRA light protection,¹ even in the car. They are uniquely designed to protect wearers' eyes from the brightest sun outdoors. Transitions® XTRActive® Polarized™ provides wearers' eyes with XTRA protection in any light conditions while delivering sharper vision, vivid colours and a wide field of view outdoors.²

Transitions® Drivewear lenses are the only polarised sun lens for driving with colour and light adaptation. They are the ideal solution for wearers who want lenses specifically crafted for their outdoor activities and driving. They can quickly adapt to different light situations and can also protect the eyes from outdoor glare, which can vary greatly as the day progresses and conditions change.

TRANSITIONS® GEN S™ VERSUS SUN LENSES

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Is Transitions® GEN S™ a sun lens?

No, Transitions® GEN S™ is not a sun lens. It is a dynamic lens that responds amazingly fast to a given light condition. This lens goes from clear to dark.

- Transitions® GEN S™ is not a sun lens nor a clear lens only
- Transitions® GEN S™ is not for outdoor activities only

It adapts to all light changing conditions both indoors and outdoors. Transitions® GEN S™ follows wearers' very own flow throughout the day and the evening.

1. The darkest in hot temperatures & in the car, blocking 100% UVA & UVB and offering the best overall blue-violet light filtration across light situations* among clear to extra dark photochromic lenses.
*Filtering blue-violet light (between 400 and 455nm ISO TR 20772:2018) among grey lenses with a premium anti-reflective coating: filtering (i) up to 45% indoors at 23°C, (ii) up to 64% behind the windscreen (iii) up to 86% outdoors at 23°C and (iv) up to 83% outdoors at 35°C.

2. EcoOptics Limited - Prof. Nicholas Roberts, Quantitative study evaluating the visual benefits of the polarization properties of lenses compared to similar non-polarized lenses, 2019/2020.

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Are Transitions® GEN S™ lenses polarised?

No, Transitions® GEN S™ are not polarised lenses.

The Transitions® portfolio is broad, you can find in our XTRActive® range:

- Transitions® XTRActive® Polarized™ lenses, specially designed for wearers who are very sensitive to light and frequently exposed to very bright light and reflective glare.
- Combining the benefits of light intelligent lenses and dynamic polarisation, XTRActive® Polarized™ provides your eyes with extra protection in any light condition while delivering sharper vision, vivid colours and a larger view outdoors.

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Do Transitions® GEN S™ lenses darken behind the windscreen?

Yes, Transitions® GEN S™ lenses activate up to category 1 levels of darkness behind the windscreen. At nighttime, Transitions® GEN S™ will remain fully clear.

VISION

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What is the importance of managing light for good vision? What is the new standard?

Good vision starts with the right visual acuity. This is what a regular clear lens does, in one static light situation. However, light isn't one dimensional, it's multidimensional, and so is vision. Vision isn't just about a refractive correction, it's also about optimising the amount of light. As the light environment changes, the visual system must adapt or it will experience transient vision loss in the process of vision recovery. Therefore, the new standard should provide correction for refractive error with the best possible visual acuity and light management to dynamically maintain vision performance and quality in any light situations. Transitions® GEN S™ lenses help optimise the light dose for continuous visual performance.*

*Light dose represents the amount of light received by the eye for a specified time exposure. Continuous visual performance means a consistent visual perception across light conditions, notably when moving from a bright to a darker environment (Source B, Transitions® GEN S™ compared to Transitions Signature GEN 8); in bright to extreme bright light environments (Source A, Transitions® GEN S™ compared to clear lenses); and in a low light environment with scattered light (Source A, Transitions® GEN S™ compared to clear lenses).

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What do we mean by light dose? Why is it an important factor for continuous visual performance?

Light dose represents the amount of light received by the eye for a specified time exposure. Light dose represents the amount of light received by the eye for a specified time exposure. Continuous visual performance means a consistent visual perception across light conditions, notably when moving from a bright to a darker environment and in bright to extreme bright light environments, as shown in our clinical investigations which compared Transitions® GEN S™ to Transitions® Signature® Gen 8™ B* and clear lenses^{A*} respectively. A consistent visual perception refers to mastering the amount of light to avoid any overexposure of light to the retina and too much eye adaptation during changing light conditions. A consistent visual perception refers to mastering the amount of light to avoid any overexposure of light to the retina and too much eye adaptation during changing light conditions.

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How does Transitions® GEN S™ help improve vision quality?

Two external clinical investigations, which followed a randomised and subject-masked controlled design, found that Transitions® GEN S™ lenses help improve vision quality in challenging light conditions, notably when moving from a bright to a dim environment when compared to Transitions® Signature® Gen 8™ B*, and in bright to very bright light situations, when compared to clear lenses.^{A*} Vision recovery in these light situations is faster and a better contrast sensitivity is achieved during bright to dim light variation.^{B*}

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Does Transitions® GEN S™ help improve contrast sensitivity?

Yes, Transitions® GEN S™ lenses help improve visual quality during "out-to-in" light variation compared to the previous generation. The same study mentioned in the previous question shows that, contrast sensitivity is a critical aspect of visual function that can change as the lens fades back. The improvement in contrast sensitivity is most evident at the initial stages of fadeback of Transitions® GEN S™, which is aligned with the physiological needs of the eye.^{B*}

^{Source A:} Subject-masked, crossover randomised controlled investigation performed in 2023 on 30 healthy participants (19.2 ± 1.3 years). Testing light stress (discomfort and disability glare, photostress recovery) with the clear and darkest states of grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to clear 1.6 index lenses with a premium anti-reflective coating. Principal Investigator: Prof. Billy R. Hammond. ^{Source B:} Subject-masked, crossover randomised controlled investigation performed in 2023 on 10 healthy, pre-trained participants (29.5 ± 4.0 years). Testing contrast sensitivity during fadeback with grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to grey Transitions Signature GEN 8 1.6 index lenses with a premium anti-reflective coating. Principal Investigator Prof. Pablo Artal. Accepted abstract at ARVO 2024. Duarte-Toledo R, Mompeán J et al, A new photochromic lens improves contrast sensitivity during fade back.

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Do the Transitions® GEN S™ colours impact colour perception?

With the introduction of an eighth colour, ruby, Transitions® GEN S™ lenses now have the broadest colour spectrum ever, offering a new visual colour experience.

All eight colours have been specifically designed for consistent performance during all stages of activation with true-to-tone colour throughout.

In the clear state, like a clear lens, Transitions® GEN S™ does not impact colour perception.

In the activated state, Transitions® GEN S™ grey, brown, graphite green, amber and emerald lenses help to preserve a natural colour perception of the surrounding environment. Transitions® GEN S™ sapphire, ruby and amethyst lenses help to enhance the vivid colours of the surrounding environment.

Transitions® GEN S™ provides a broader colour palette to meet the expectations of all wearers.

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Does wearing Transitions® GEN S™ help improve vision for someone with... (any medical condition: myopia, etc.)?

There are a multitude of benefits to wearing Transitions® GEN S™ for a variety of prescription lens wearers vision needs including:

39% faster vision recovery from intense bright light compared to clear lenses^{A*}

40% faster vision recovery during fadeback compared to the previous generation^{B*}

39.5% improvement in contrast sensitivity during fadeback compared to the previous generation^{B*}

At this time, more studies are necessary to determine the impact on specific medical conditions (e.g. myopia).

*Tests carried out using grey lenses. Photochromic performance may vary across colours and lens material.

Source A: Subject-masked, crossover randomised controlled investigation performed in 2023 on 30 healthy participants (19.2 ± 1.3 years). Testing light stress (discomfort and disability glare, photostress recovery) with the clear and darkest states of grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to clear 1.6 index lenses with a premium anti-reflective coating. Principal Investigator: Prof. Billy R. Hammond. Source B: Subject-masked, crossover randomised controlled investigation performed in 2023 on 10 healthy, pre-trained participants (29.5 ± 4.0 years). Testing contrast sensitivity during fadeback with grey Transitions® GEN S™ 1.6 index lenses with a premium anti-reflective coating compared to grey Transitions Signature® GEN 8™ 1.6 index lenses with a premium anti-reflective coating. Principal Investigator Prof. Pablo Artal. Accepted abstract at ARVO 2024. Duarte-Toledo R, Mompeán J et al., A new photochromic lens improves contrast sensitivity during fade back.

LEARN MORE

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How much would a pair of Transitions® GEN S™ cost? Would there be a price increase compared to Transitions® Signature® Gen8™?

Transitions® GEN S™ lenses are the result of 5 years of rigorous and relentless research efforts to conceptualise a high-quality product with innovative technology and the broadest colour range on the market as well as long-lasting unmatched performance.

Due to this massive investment in advanced technology, Transitions Optical increased the price slightly to lens suppliers. Your preferred supplier can provide pricing details.

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Where can I learn more about Transitions® GEN S™?

You can learn more on our website [Transitions.com](https://www.transitions.com), during our Transitions events or on our learning platform Leonardo.