



Press Release

Improved management of polarized light with LightPro Technology

LightPro Technology by ZEISS Sunlens offers glare reduction and at the same time, allows for the transmission of the carrier portion of light that helps to define vision in different surroundings or circumstances.

Varese, Italy / Aalen, Germany | 11. July 2023 | ZEISS Vision Care

Light reflected from a glossy surface is mostly polarized. It can generate reflection or glare depending on different conditions such as light intensity, time of day and environment. Intense glare can be blinding, uncomfortable and it can prevent good vision outdoors. However, polarized light also helps to provide a natural and complete perception of the surroundings. In fact, light reflected off an object or a surface is what enables an accurate perception of it. Potential hazards such as ice patches, metallic objects or asphalt become perceptible to the viewer because it reflects light in a specific way.

Reducing blinding glare and enhancing natural vision

ZEISS LightPro Technology for plano sun lenses offers the glare free vision of a polarized lens and the natural perception of standard lenses.

Standard polarized lenses filter up to 99 percent of reflected light. But such lenses block parts of the visual information which may lead to a lack of depth and contrast perception. In situations where sun and shade alternate, the lenses may appear too dark.

LightPro Technology, however, filters the part of the reflected light that generates visual disturbance but at the same time, preserves the so-called positive reflection which is inherent in polarized light and transports visual information. By reducing environment-specific predominant light colors, ZEISS LightPro lenses provide a more balanced color perception with the ability to see shadow and contrast that would otherwise be indistinguishable. As a result, blinding glare is reduced in intensity, but natural vision and terrain details are enhanced.

The balanced filtering of polarized light with LightPro Technology also allows the wearer to read displays of digital devices, LCD screens, smartphones or tablets. This is particularly important while driving, as the digital dashboard information or navigation systems panel should remain visible. When it comes to playing sports, LightPro Technology also allows for a clear view of smart watches or GPS devices.



ZEISS Sunlens is the division of the ZEISS Group dedicated to the research, development, and production of prescription-free high-quality sunglass lenses to offer protection from the sun's rays as well as superior optical performance.

LightPro Technology is a registered trademark of Carl Zeiss Vision GmbH.

Press contacts

ZEISS Vision Care
Sarah Kopp
Phone: +49 7361 591 1248
E-Mail: sarah.kopp@zeiss.com

www.zeiss.com/newsroom
www.zeiss.com/vision-news

ZEISS Sunlens
Ilaria Carnesalli
Phone: +39 0031 851 386
E-Mail: Ilaria.carnesalli@zeiss.com

www.zeiss.com/sunlens

About ZEISS

ZEISS is an internationally leading technology enterprise operating in the fields of optics and optoelectronics. In the previous fiscal year, the ZEISS Group generated annual revenue totaling 8.8 billion euros in its four segments Semiconductor Manufacturing Technology, Industrial Quality & Research, Medical Technology and Consumer Markets (status: 30 September 2022).

For its customers, ZEISS develops, produces and distributes highly innovative solutions for industrial metrology and quality assurance, microscopy solutions for the life sciences and materials research, and medical technology solutions for diagnostics and treatment in ophthalmology and microsurgery. The name ZEISS is also synonymous with the world's leading lithography optics, which are used by the chip industry to manufacture semiconductor components. There is global demand for trendsetting ZEISS brand products such as eyeglass lenses, camera lenses and binoculars.

With a portfolio aligned with future growth areas like digitalization, healthcare and Smart Production and a strong brand, ZEISS is shaping the future of technology and constantly advancing the world of optics and related fields with its solutions. The company's significant, sustainable investments in research and development lay the foundation for the success and continued expansion of ZEISS' technology and market leadership. ZEISS invests 13 percent of its revenue in research and development – this high level of expenditure has a long tradition at ZEISS and is also an investment in the future.

With over 38,000 employees, ZEISS is active globally in almost 50 countries with around 30 production sites, 60 sales and service companies and 27 research and development facilities. Founded in 1846 in Jena, the company is headquartered in Oberkochen, Germany. The Carl Zeiss Foundation, one of the largest foundations in Germany committed to the promotion of science, is the sole owner of the holding company, Carl Zeiss AG.

Further information at www.zeiss.com

ZEISS Vision Care

ZEISS Vision Care is one of the world's leading manufacturers of eyeglass lenses and ophthalmic instruments. The unit is allocated to the Consumer Markets segment and develops and produces offerings for the entire eyeglass value chain that are distributed globally under the ZEISS brand.