UV radiation is always present. All year round, all day, in winter and summer, in sunny and even overcast conditions. Prolonged UV exposure poses some serious health risks.

Most of us know that UV rays can damage the skin, but many are unaware that UV exposure can also be harmful to the eyes and surrounding tissue.

To protect our skin, we typically wear sunscreen, but we really don’t have a lot of options when it comes to protecting our eyes against harmful UV rays. While sunglasses provide excellent protection, studies show that only one person in four consistently wears sunglasses when outdoors.
And most clear lenses only offer partial UV protection.

We have elevated the standard of care by offering sunglass-level UV protection in all clear ZEISS lenses. That’s full UV protection up to 400nm, the level recommended by the World Health Organization (WHO) and provided in premium sunglasses.

Take up the cause and become a ZEISS UVProtect Expert.

Contact us to find out how

ZEISS UVProtect Technology

All clear ZEISS lenses now provide full protection against UV rays up to 400nm, going well beyond the current industry standard of 380nm. And while the "gap" between 380 and 400 nanometers may not sound like much, it does in fact account for 40% of total solar UV radiation that reaches our eyes and eyelids.

Partial UV protection

Clear lenses with partial UV protection appear transparent when photographed with a UV camera.
It reveals that UV rays are not blocked/only marginally blocked by the lens. This means that UV rays are transmitted through the lens and can potentially harm the eye and surrounding skin.

This picture was taken with a UV camera fitted with a UV transmitting filter, allowing only ultraviolet light to pass through.

Don’t risk the eye health of your patients.

Constant exposure to UV rays is not just harmful to the skin but also to the eyes.

Why is 400 nm the better standard for UV protection?

Current lenses that block UV only up to 380 nm or less create a significant gap in protection. The irradiance between 380 and 400 nm is much more intense, and represents up to 40% of the total amount of solar UV irradiance.

Solar UVR spectrum normalised to its maximum value at a wavelength of 400 nm.
While a UV AR coating provides slight protection from UV, it is only from reflections off the back surface of the lens. In fact, up to 95% of UV radiation comes directly through the front of the lens. This means so-called back UV coatings block only a very small portion of UV rays. While a UV AR coating may be helpful to address back-side reflections, it does nothing to block the biggest source of UV rays that come directly through the lens.

Learn more about ZEISS coatings

Related Products

- **Sun Protection & Outdoor Lenses by ZEISS**
  - Product Portfolio

- **ZEISS DuraVision Platinum UV**
  - The best of ZEISS Premium coatings

- **ZEISS PhotoFusion**
  - The self-tinting lenses that react fast to changing light.

- **ZEISS C-UVPROTECT**
  - Make invisible UV light visible.

  ZEISS C-UVPROTECT UV screening technology is a unique ophthalmic tool. By making invisible UV light visible, patients can now personally experience the level of UV protection in their eyeglasses. You can include the ZEISS C-UVPROTECT tablet as part of your exam lane or dispensing area.

ZEISS is one of the world’s leading manufacturers of eyeglass lenses, and is committed to delivering maximum precision and comfort. ZEISS designs and produces lenses, instruments and measurement systems.

Contact us to get started

ZEISS Customer Service

1-866-596-546

Email

Learn more
Learn more
Learn more
as well as retail concepts and technology services that continue to raise the bar in vision care.

ZEISS Instruments Support
1-800-201-4143
Email: VTS-NA@zeiss.com

ICNIRP Guidelines on limits of exposure to ultraviolet radiation of wavelengths between 180 nm and 400 nm (Incoherent Optical Radiation)

ZEISS external wearer trial with 106 spectacle lens wearers and 7 eye care professionals in 2018, D.

