

# DELIVERY RIBO

The contact lens that releases Riboflavin for digital eye strain with UV and HEV light protection

*Sight is nothing without Vision*



# The Delivery Concept



Delivery contact lenses are enriched with natural substances such as **Lachryceuticals®**. thanks to the exclusive manufacturing process patented by Safilens

These substances are then released on the anterior segment of the eye during the wearing cycle.

The constant and controlled release is triggered by a combination of body temperature, blinking and eyelid pressure.

To ensure maximum comfort and constant release, the lenses are also enriched with natural polysaccharides with a typical pseudoplastic behavior such as Hyaluronic Acid and **TSP®**.

***Lachryceuticals®** indicates natural constituents present in foods, microbial agents or plants which, by exploiting the pharmaceutical synthesis techniques of products of natural origin, are selected ad hoc and are able to influence some physiological processes.*

*They, in particular, can be released directly onto the tear film from contact lenses or taken in the form of eye drops.*

Presented products are CE marked  
Medical Devices

CE 0123

# HEV Light and Digital Stress

**High Energy Visible (HEV) Light** is a part of the visible light spectrum with wavelengths between 400 and 500 nanometers. Unlike UV rays, which are mostly blocked by the atmosphere, HEV light is widely present in our daily lives, even coming from artificial sources such as computer screens, smartphones and other digital devices.

HEV light penetrates deeper than UV rays, causing photo-aging of structural proteins of the skin and superficial tissues such as collagen and elastin.

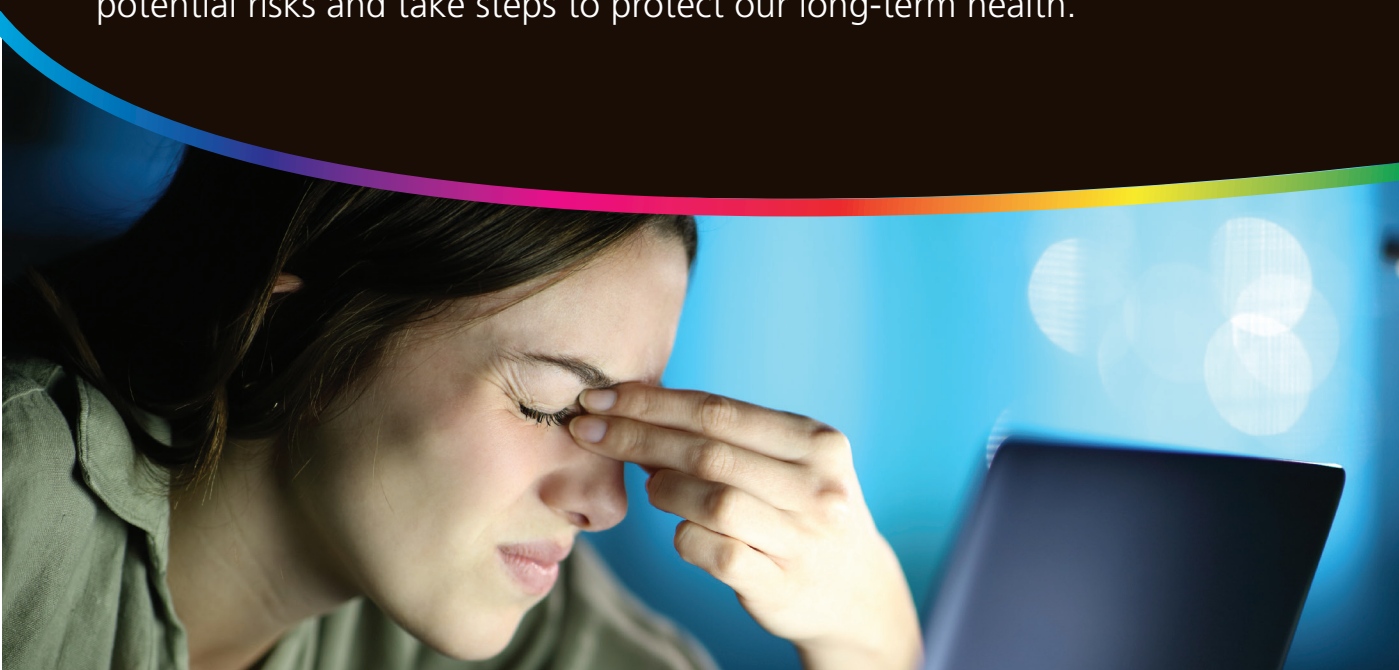
It can also induce the formation of reactive oxygen species, which damage the body's cells through oxidative processes that accelerate aging.

Prolonged exposure to HEV light has been linked to an increased risk of age-related macular degeneration (AMD), a condition that can lead to central vision loss.

Regular use of digital devices that emit **blue light**, a major component of HEV light, can cause eye strain, dry eyes and sleep pattern alteration.

Furthermore, fixation and excessive proximal activity compromise tear quality and promote evaporation.

With the increasing use of digital devices, it is essential to be aware of the potential risks and take steps to protect our long-term health.



# Riboflavin

DELIVERY RIBO contact lenses are enriched with Riboflavin, Vitamin E-TPGS, Hyaluronic Acid and **TSP®**.

Riboflavin (or Vitamin B2) is precious for eye health, because the tissues of our visual system are mostly mucous membranes, which benefit greatly from this precious element.

Riboflavin, once released on the cornea, strengthens the bonds between the collagen fibers that compose it.

## Vitamin E-TPGS

Vitamin E-TPGS is a penetration enhancer that guarantees the correct diffusion of the substances, released by the contact lens, in both the anterior and posterior segments of the eye.

It acts as a **carrier** for Riboflavin, so as to allow the passage of this substance through the corneal surface, reaching the innermost layers of the cornea.

Vitamin E-TPGS also improves the wettability of the ocular surface.



# The synergistic action

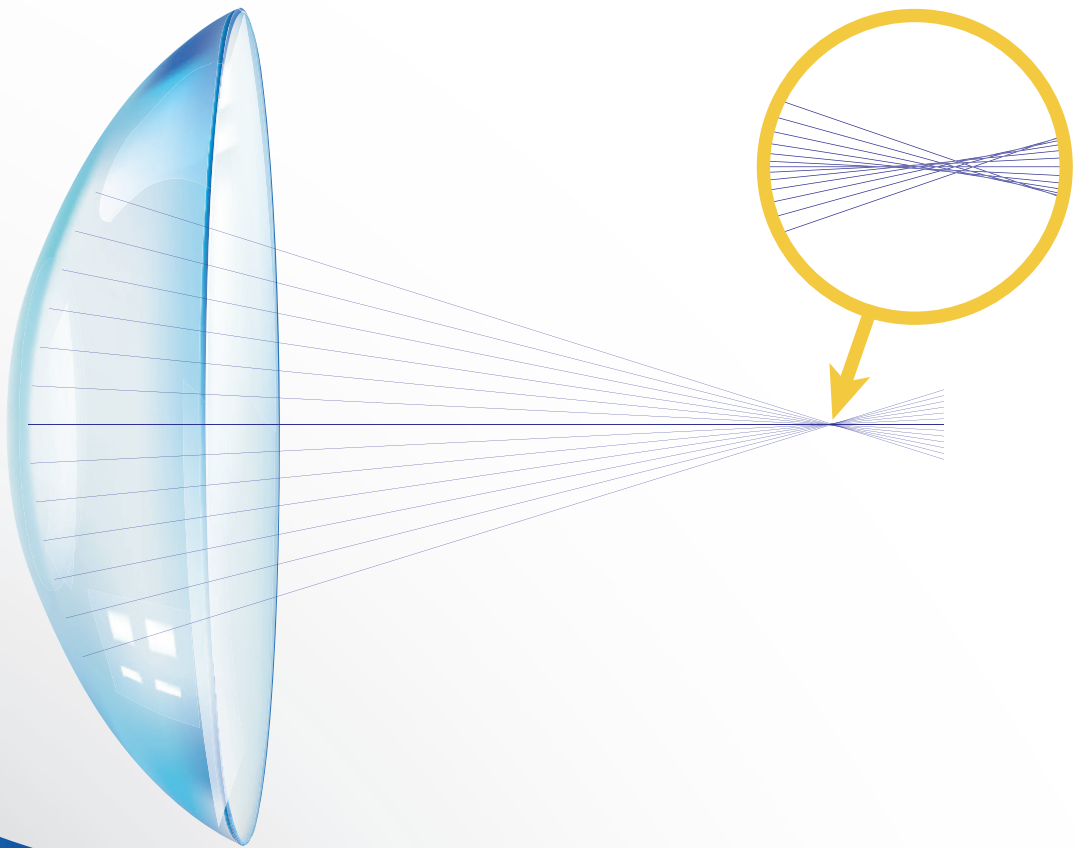


Riboflavin and Vitamin E-TPGS combined protect the cornea, lens and retina, because they shield the ocular surface from UV and HEV light, and contribute to the protection of the retina and epithelia from the damages of UV radiation.

They also act as **scavengers**, i.e. they transform oxygen radicals into non-radical compounds, free of reactivity and therefore toxicity, restoring the homeostasis of the eye, mitigating photo-oxidative damage and slowing down premature aging processes.

Once released from the lens, Riboflavin and Vitamin E-TPGS also interact with the external lipid layer of the tear film, forming a protective barrier that hinders hyper-vaporation of the aqueous component of the tear.

# Accommodative support



From an optical point of view, the DELIVERY RIBO lens is designed to provide accommodative support to those who regularly work in front of digital devices.

The EDOF design of the lens is characterized by a central zone with positive spherical aberration and an external aspheric monofocal zone.

The combination of the two optical zones results in a more extended focus with limited scattering capable of providing a pseudo-accommodation of approximately 0.40 diopters, alleviating the accommodative effort for proximal activities without altering vision at other distances.

# A new perspective

The controlled release of selected supplements into the ocular environment makes it possible to mitigate the annoyances and risk factors deriving from the modern lifestyle, such as excessive near visual activity, continuous exposure to artificial sources emitting blue or HEV light and the deficiency of tear quality due to excessive exposure to monitors and displays.

The enhanced depth of field (EDOF) design is able to limit the wearer's accommodative effort, without altering distance vision.

DELIVERY RIBO daily lenses are designed to protect the ocular health of regular users of digital devices, including emmetropic users.





[www.deliverycontacts.com](http://www.deliverycontacts.com)

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