

# **Schützen Sie Ihr Augenlicht!**

**Protect your eyesight!**



**office-glasses.de**

**PRISMA®**



## A danger to the retina?

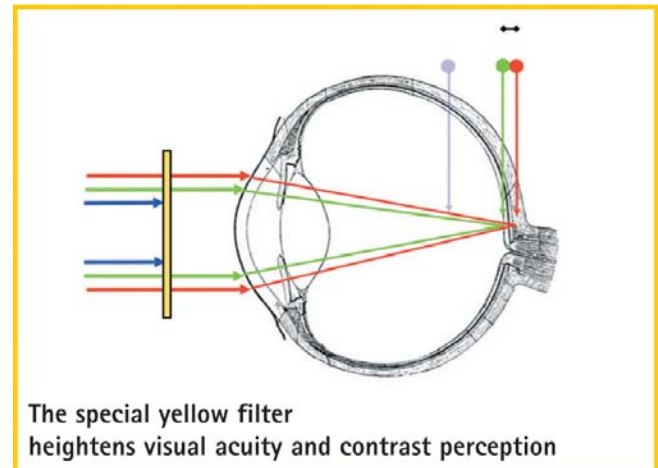
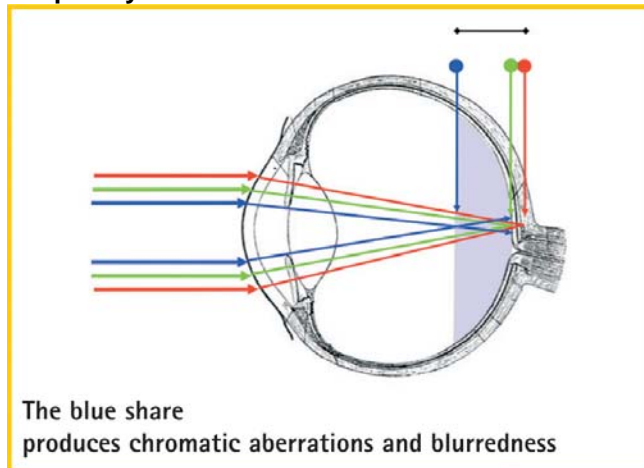
A person doing on-screen work looks directly into the source of light for a long time.

This means that the radiation hits - unfiltered and bundled - the spot of the sharpest vision, the so-called macula lutea, also called the "yellow spot" which is located on the back wall of the eyeball. The lens filters ultraviolet light, blue light is not. This proportion of blue light can, in the long term, lead to damage such as age-related macular degeneration (AMD), an incurable disease of the yellow spot. Numerous scientific studies on AMD have proven that blue light can be harmful to the eye. Oxygen radicals damaging cell metabolism in the eye are produced under the influence of blue light.

## Blue light impedes vision

Blue light breaks more easily than red light. It is focussed on different level in the eye than long-wave light, which results in chromatic aberrations and blurredness. This is why pilots and athletes often wear yellow glasses, which filter the proportion of blue light, thus heightening visual acuity and contrast perception. Often AMD patients also get prescriptions for yellow glasses or lenses in order to protect their macula from destructive blue light.

## Graph - eye lens



## Disorder of hormonal balance

Light with a high proportion of blue also affects the hormonal balance in a negative way by reducing the production of melatonin and boosting the generation of the stress hormones cortisol and ACTH. Disorders of the hormonal balance can lead to illnesses caused by civilization such as cardiovascular diseases, metabolic disorders as well as disorders of the immune system, cancer, diabetes etc.

## No chance for regeneration

Near infrared light is able to activate cytochrome oxidase, an important enzyme for the functioning of the mitochondria and therefore promotes wound healing and repairs tissue damages on a cellular level. If one spends the biggest part of the day in light containing a high proportion of blue and looks into computer screens for a long time the eyes get an overload of short-wave blue light. As this light lacks the proportions of red and infrared light responsible for enhancing blood circulation, the regeneration can often be insufficient.

## Brightness control offers no protection

The brightness control of a screen works through pulse width modulation regulating the on-time of the source of light in a certain frequency. Even when reducing the brightness of the screen the pauses between the impulses indeed become longer, but the power of the impulses is not reduced. Therefore the light impulse always penetrates the body tissues to an equally deep level, even when the eye perceives a lower brightness caused by frequency modulation. Pulsating signals can disturb the biological balance even more than permanent signals. TFT screens only cease to flicker when turned on fully. That is why it is recommendable to turn the screens on fully and wear special **Computer Protection Glasses** from **PRiSMA®**.

## Protect your eyesight!

In order to protect eyes from mechanical and chemical danger it is necessary and normal to wear protection glasses. But the danger caused by unprotected work at screens and under fluorescent lamps is often played down or denied by orthodox medicine although the above-mentioned damaging mechanisms have already been proven in cell experiments. Who wants to wait until – maybe only in many years from now - orthodox medicine research delivers the final proof? If you already want to protect yourself today, we recommend you to wear **PRiSMA® Computer Protection Glasses** as a precaution.

**PRiSMA® OFFICE GLASSES V1** developed by us offer you lasting protection for your eyes against harmful blue light given off by screens, energy saving lamps and fluorescent tubes.

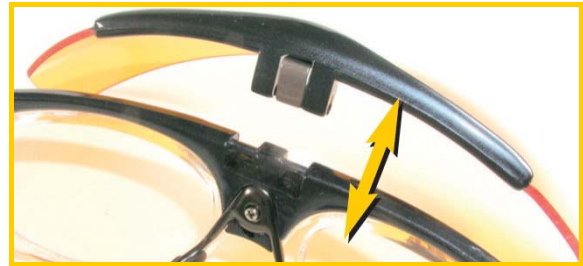
**Operating instructions**

**PRiSMA® Computer Protection Glasses V1** can universally be used by spectacle wearers and

people not wearing spectacles. Your optician can fit corrective lenses into the removable clip.



The glasses and its components



... or very easily be removed. This is important for spectacle wearers who cannot do without corrective lenses and who therefore can use these glasses as their regular vision aids.



The front-hinged frame holding the filter pane can be clicked upwards ...



The integrated **clip** can be put in or removed in one motion making the glasses also suitable for people who do not need glasses.

**PRiSMA® Computer Protection Glasses V1**

- ◆ protect your eyes
- ◆ filter out aggressive proportions of blue light
- ◆ reduce light-related disorders in the hormonal balance
- ◆ boost eyesight and contrast perception
- ◆ 100% UVA and UVB filter

What makes **PRiSMA® Computer Protection Glasses V1** stand out is their perfect fit, their elegant look and their high quality: The glasses frame of our light protection glasses is made from the high-tech material Grilamid TR90, a very high-quality synthetic material offering best wearing comfort due to its low weight. The rear of the earpiece is malleable in a cold condition and the nosepiece is made from non-allergic, skin-friendly material. Both the earpiece and nosepiece are easily adjustable to the shape of your head and nose.

High stability, chemical durability and a robust surface appearance are guarantors for our long-lasting protection glasses. The lenses are made from break-proof materials with a scratch-resistant surface sealing and they are of the highest optical category.

**PRiSMA® Computer Protection Glasses V1** fulfil – like all models in the PRiSMA collection – highest international standards regarding comfort and safety.

**Safety instructions:**

Due to the filtering characteristics of **PRiSMA® Computer Protection Glasses V1** a reliable colour detection is not provided for the whole visible spectrum. Therefore these office glasses should not be used for security-relevant screen handling which requires a correct colour detection. Examples: Process monitoring in nuclear power plants, air traffic control, life-maintaining systems in medicine etc. **Therefore they are not suitable for car driving!**

**Address: [www.office-glasses.de](http://www.office-glasses.de)**

# PRiSMA® Computer-Schutzbrille V1

PRiSMA® Computer Protection Glasses V1



## PRiSMA® V1 accessories



PRiSMA® packing box



PRiSMA® V1 microfiber cleaning cloth



PRiSMA® V1 case