

Brief overview of low vision aids

Telescopic spectacles

Telescopic spectacles are telescopic systems mounted in a spectacle frame which acts as a system carrier. They are designed for magnifying retinal images. Thus, they are ideally suited for viewing distant and static objects, enabling the user to perceive details more clearly. In addition, telescopic systems can be combined with front caps to adjust the user distance to intermediate and close distances. In addition to watching TV, the system can be used for close-up activities such as reading a book or doing some kind of craftwork. Due to the mechanical and optical design, a distinction is made between Galilean and Keplerian telescopic systems.

High addition spectacles

High addition spectacles are glasses that provide magnification due to their lens power. They look like regular reading glasses and are used in a similar way. The only difference is the reading distance which has to be reduced due to the higher lens power. As a result, the reading material, e.g. menu, must be brought closer to the eye according to the power of the high addition lenses. These glasses fit easily into any handbag or shirt pocket and offer the advantage that the user's hands are free for any kind of activities such as reading, handicrafts and so on.

Magnifiers

Magnifiers are one of the traditional aids to improve vision and are thus a preferred solution for visually impaired people. They are used wherever it is necessary to enlarge an image, be it for reading, in cases of reduced visual acuity, or to see details more clearly in hobby or leisure activities. There are stand and hand magnifiers, often used in combination with some kind of lighting. Hand magnifiers are perfect for use while on the go! Highly efficient LED lighting makes it possible to read even under poor ambient lighting conditions, such as in restaurants. As the name suggests, stand magnifiers are placed on the reading material for relaxed reading. While closed magnification heads ensure brighter illumination of the reading material, open magnification heads provide space for writing or doing handicrafts beneath the lens. Thanks to magnifications from 1.5x to 14x and 3 different light temperatures, illuminated magnifiers from SCHWEIZER offer the right solution for every application.

Lighting and illumination

Low vision care starts with lighting and illumination optimised to meet the special needs of visually impaired people. Several studies conducted by Professor Hartmann from Munich/Germany with visually impaired people have shown that good and proper lighting significantly improves visual performance. An individually tested light temperature is more pleasant and makes reading more comfortable.. Optimising illumination and contrast can reduce the magnification power otherwise

required! SCHWEIZER's Multilight LED lamps are all fitted with energy-efficient multichip LEDs and are available in three different light temperatures. They can be powered by mains or battery (also rechargeable), or a combination of both, to ensure greater flexibility.

Blue blocking and comfort filters

People with reduced visual acuity often also experience lower contrast sensitivity. Reduced contrast vision can have many causes including clouding of the ocular media, deposits building up on the retina or the loss of receptor cells. Special blue blocking or comfort filters provide help in this context and enhance the ability to see in contrast. Blue blocking and comfort filters increase contrast vision. They are available in different lens colours and can be combined with different frame designs such as fit-over or wrap-around frames for use without or with corrective spectacles.

Handheld video magnifiers

Handheld video magnifiers are ideal for flexible use thanks to their portable design. They often come with a handle for ergonomic ease of use. Handheld video magnifiers are very simple to operate and are used wherever reading or recognising texts, price tags or small objects is necessary. They are the perfect companion when requiring magnification while on the go.

Desktop video magnifiers

Desktop video magnifiers usually feature a fixed camera and large screen and are equipped with an XY reading table. They are designed for use at work, home or school, offering strong magnification of texts and images on the screen. The XY table moves smoothly in almost any direction, thus ensuring optimal guidance of the reading material and continuous strain-free reading.