

## Tecnical Press Release

### Why BLUE Magnifying Lamps?

#### The End of Eye and Headaches and Poor Inspection Quality!

On television, the "Blue Box" is used in news broadcasts, for example, to insert or overlay images. This has proven to be a very effective color in television for all kinds of effects, especially to make transitions between images and color changes as stress-free as possible for the human eye, or even to occasionally trick it.

Interestingly, the human eye does not consciously or unconsciously perceive the color blue as a side or peripheral phenomenon. The color is there, but the brain does not respond subconsciously to it. This is further supported by the fact that the human eye assumes a blue sky as a given, but does not do so with a gray sky, which it immediately recognizes.

Applied to work ergonomics, this means, for example, with a black magnifier rim: The eye must first recognize the green circuit board being held in the hand. The hand places the circuit board under the magnifier: the eye then sees the black rim and then green again! The circuit board is worked on and then put away: the eye perceives black and green once more.

Summing up: green-black-green-black-green, thus 5 work processes for the brain in time X, this process is repeated dozens or hundreds of times in a morning. The user is thus fatigued and efficiency is reduced.

Gray lamp shades reduce brain strain, but do not eliminate it with respect to color changes.

Special matte blue magnifier shades, however, minimize brain strain related to ongoing color changes with circuit boards, as this blue is not significantly perceived.

The number of color change processes for the eye and brain is reduced from 5 to practically 1 with a special blue magnifier shade. This reduces brain strain and allows for longer and more concentrated performance for the actual work.

From experience with many customers, reports indicate that the quality and size of the lens, as well as the powerful and pleasant lighting, significantly improve inspection quality. However, the reduced color change strain on the eye also contributes significantly to increased all-day inspection quality.

Similarly, an increase in work output, attendance hours, etc., has also been observed.