



CANTOR+NISSEL



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ChromaGen™

and Colour Blindness

Enhancing Lives

Colour Blindness

Colour Blindness is usually an inherited condition and occurs because some of the colour sensitive cells in the eyes, called cones, are either missing or don't work properly. It is also more accurately known as colour vision deficiency as total colour blindness (an inability to see any colour) is very rare.

The effects of colour vision deficiency can be mild, moderate or severe depending upon the defect. If you have inherited colour blindness your condition will stay the same throughout your life – it won't get any better or worse.

Most people with colour vision deficiency have difficulty distinguishing between shades of red, yellow and green. In rare cases some people have trouble with blues, greens and yellows instead.

Inherited colour vision deficiency has no cure, nothing will produce normal colour vision in a defective person. However, ChromaGen™ lenses can be used to help discriminate between colours or to perform some tasks.

How different colour deficiency varies



NO COLOUR DEFICIENCY



DEUTERANOMALY



PROTANOPIA



TRITANOPIA

ChromaGen™ Lenses

ChromaGen™ is a unique system of coloured filters that are worn as either contact lenses or spectacles. For people suffering from colour deficiency, ChromaGen™ haploscopic filters work by changing the wave length of each colour going into one or both eyes, which enhances colour perception and colour discrimination.

In trials, over 97% of colour deficient people reported a significant enhancement to their colour vision. For many people this improvement can be dramatic and life-changing: even the colours they normally identify correctly may seem brighter, richer and more vivid, whilst they may perceive other shades and colours for the first time.

ChromaGen™ lenses can realistically be expected to achieve the following:

- Improve general colour perception
- Make colours brighter and clearer
- Allow shades of colour, previously unseen, to be observed
- Improve the ability to name colours correctly
- Improved colour vision may also lead to improved safety, for example through earlier identification of hazard warning lights and brake lights on the roads

