



# Eyejusters

All over the developing world, people suffering from poor vision cannot access vision correction services. Usually all they need is a pair of glasses, but if there are no optometrists then getting them is not possible.

## The Need

The World Health Organization estimates that 670 million people are currently living without glasses that they need, and that poor vision is costing the global economy up to \$400bn per year through lost opportunities & productivity, prevention of education & literacy and general loss of health.

There are many reasons for a lack of suitable people who are able to prescribe glasses. Reduced access to training and no funding for eyecare professionals are the leading causes. In the UK there is an optometrist to serve every 8,400 people, but in parts of sub-Saharan Africa this ratio can be as poor as one optometrist for every 1,000,000 people.

## Self-adjustable glasses



Eyejusters are self-adjustable glasses that allow anyone to correct their own vision. The plastic lenses change their power as you turn a dial, so you just have to keep turning until you can see most clearly. There are two variants of Eyejusters which cover long-sighted and short-sighted people, as well as those who need reading glasses. They're a pair of glasses and a vision screening all in one product, significantly reducing the costs associated with providing basic vision correction services.

They can be distributed by anyone with very basic training. We provide vision charts and training materials, and they can be easily added to existing distribution programmes - all you need is the glasses, a vision chart and a few minutes.

You can remove and re-attach the dial at any time, so one pair can be shared by several people, or can be changed to allow near vision for those who would normally need a separate pair of distance and reading glasses.

## Features



- ▶ **Re-adjustable at any time** - use them as both distance and reading glasses or share them with others
- ▶ **UV resistant plastic lenses** - blocks most UVA and all harmful UVB rays, contributing to eye health
- ▶ **Attractive, high-quality metal frames** - available in a range of colours, and with the ability to adjust to fit most faces
- ▶ **Hard plastic case and cleaning cloth included** - with basic care Eyejusters should last for several years
- ▶ **Easy to look after** - lenses wipe clean and the twin lenses can be hinged apart to remove dirt or water

### Each pair of Eyejusters includes:

- ▶ Re-attachable adjuster dial
- ▶ Hard plastic case
- ▶ Cleaning cloth
- ▶ Near vision test chart
- ▶ Instruction sheet



## Do they work?

Self-adjustable glasses, and the process of self-adjustment (called 'self-refraction') have been tested in a number of peer-reviewed scientific studies<sup>1,2,3</sup>, and studies of fieldwork performed in Ghana, Nepal, Malawi, Nicaragua, China and South Africa. They are reliable and effective for children aged 12 or over, with a recent World Bank-funded study<sup>4,5</sup> validating their use.

In use, self-refraction has been found to be as accurate as other field refraction methods, such as auto-refraction, and approaches the quality of a field refractionist performing subjective refraction, the gold standard of refractive eyecare.

1. Smith et al, *Optom. Vis. Sci.* 87 (2010), 2. Douali & Silver, *Ophthal. Physiol. Opt.* 24 (2004), 3. Silver et al, *S. Afr. Optom.* 62 (2003), 4. He, Congdon et al, *Ophthalmology* 118 (2011) 5. Zhang, He et al, *BMJ* 343 (2011)

Eyejusters are a simple and cost-effective way of achieving clear vision for millions of people worldwide. They're a new way to help the world see.

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