OPTICARE

OPTIKONIC (OK) LENS CALCULATION

A SPECTACLE ANISEIKONIC SOLUTION

OK

The **Optikonic Calculation (OK)** is a generic optical formula aimed at creating similar magnification where the scripts between the two eyes is more than 2 diopters.

ABOUT OPTIKONIC

Aniseikonia is a condition in which the patient suffers from differences in size between the retinal images of each eye. The **OPTIKONIC Calculation** only considers Spectacle induced aniseikonia.

Spherical Magnification Formula

$$M = \frac{1}{(1 - t/n.P)} \times \frac{1}{(1 - hF)}$$

t = center thickness (in meters), **n** = refractive index, **P** = front base curve, **h** = vertex distance (in meters), **F** = back vertex power (essentially, the prescription for the lens)

OPTIKONIC AIMS TO

✔ Produce an overall magnification difference of less the 2% in all meridians.

✔ Reduce many symptoms caused by Spectacle Aniseikonia: e.g. Headaches, Double Vision, Peripheral Distortion, difficulty reading, difficulty seeing distance.

Parameters: Center Thickness, Refractive Index, Front Base Curve and Vertex Distance. All these are used to achieve a balanced Magnification between the two eyes.

No OK Correction

-1.00   -4.00

LE Image   RE Image

OK Correction

-1.00   -4.00

LE Image   RE Image
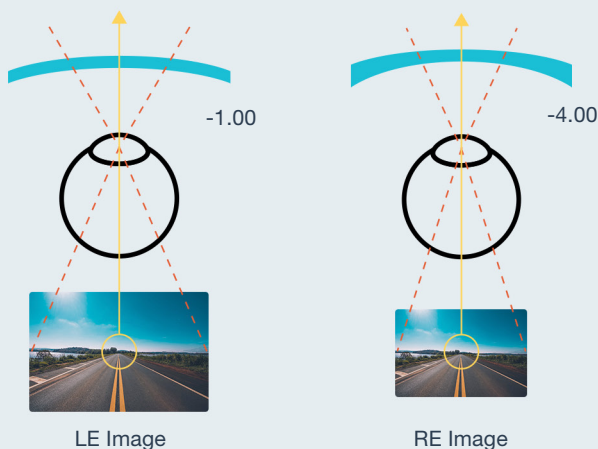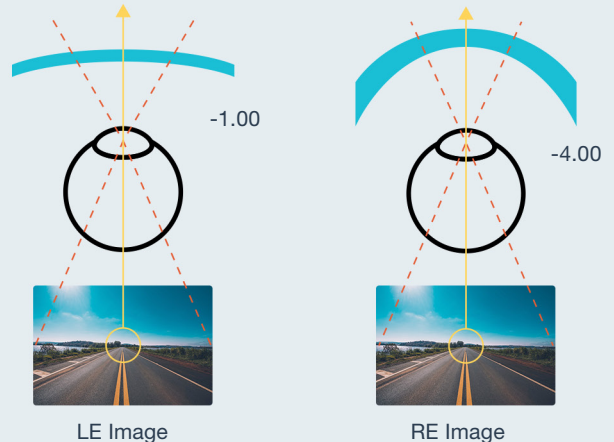
Availability: The OK Calculation can be applied to all indexes, all conventional and all Freeform Lens Designs. OK Lenses are suitable only for fitting to Shell Frames.

Data Required for each eye: Script, Spectacle Vertex Distance, PD, Pupil Height, Frame Tilt and Frame Wrap.