BVI

## FINE TECHNOLOGY

FINEVISION Trifocal IOLs

# WIN VISUAL ACUITIES

**AT ALL DISTANCES**

| | |
|---|---|
| 1 | 20/200 |
| 2 | 20/100 |
| 3 | 20/70 |
| 4 | 20/50 |
| 5 | 20/40 |
| 6 | 20/30 |
| 7 | 20/25 |
| 8 | 20/20 |
| 9 | |
| 10 | |
| 11 | |

# FINE TECHNOLOGY

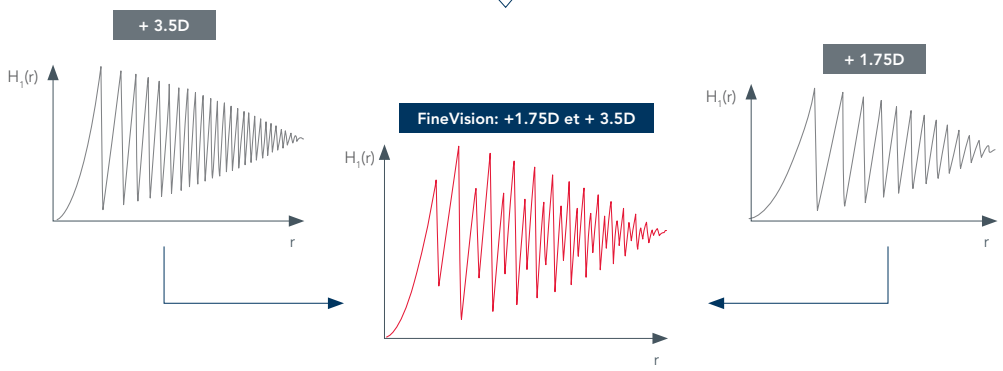
The original patented diffractive trifocal optic

## Combination of two profiles

Combining two profiles offers the patient an intermediate vision without impairing **near** and **far** visual acuities.

This concept is designed to reduce the loss of light energy typically caused by diffractive systems.

| Profile n°1 | Diffraction orders | Profile n°2 |
|---|---|---|
| FAR (eg. +20D) | Order 0<br>(determined by IOL curvature) | FAR (eg. +20D) |
| NEAR +3.5D | Order 1 | INTERMEDIATE +1.75D |
| LOST (not usable) +7.0D | Order 2<br>(always Order 1 doubled) | NEAR +3.5D |



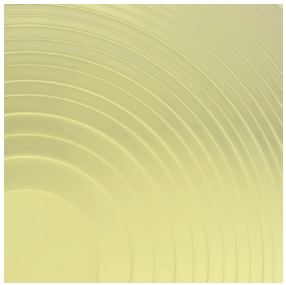

### What do the studies say?

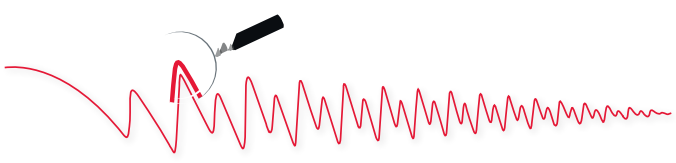
"The second order of profile n° 2 reinforces order 1 of profile n° 1. This gain of energy provides more than 86% of useful light energy depending on the pupil aperture."

Reference:
Data on file with BVI.

## Combination of two technologies

Our trifocal family is the first and only optic to feature **CoPODize** technology, combining both **Convolution** and **Apodization** technologies on the entire optic surface.





* Patented in Belgium: BE1019161 (A5), Europe: EP2503962 (B1), International: WO2011092169 (A1), United States of America: US 8,636,796 (B2), China: ZL201180002694.7, Japan: 5480980, Australia: 2011209315, Hong-Kong: 2503962

# Innovative trifocal technology

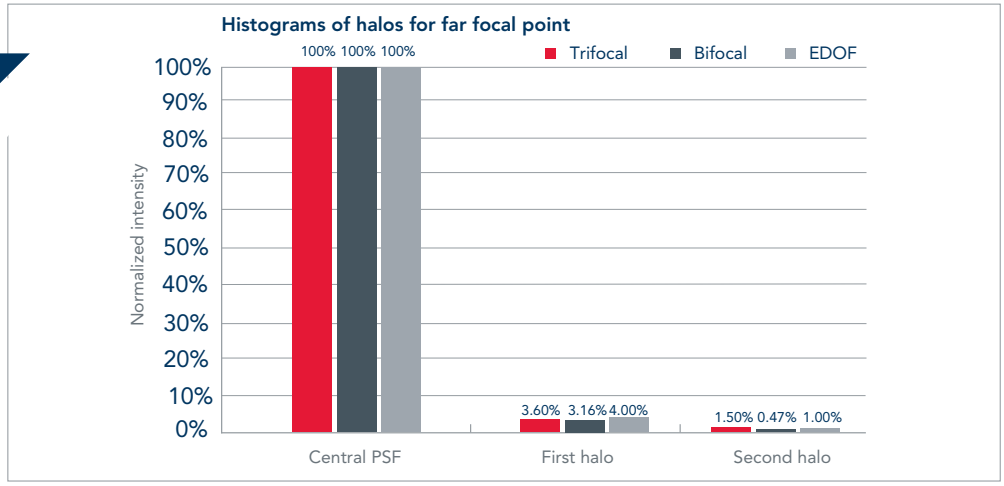
## Convolution and Apodization benefits

**Convolution** reduces and limits photopic phenomena.

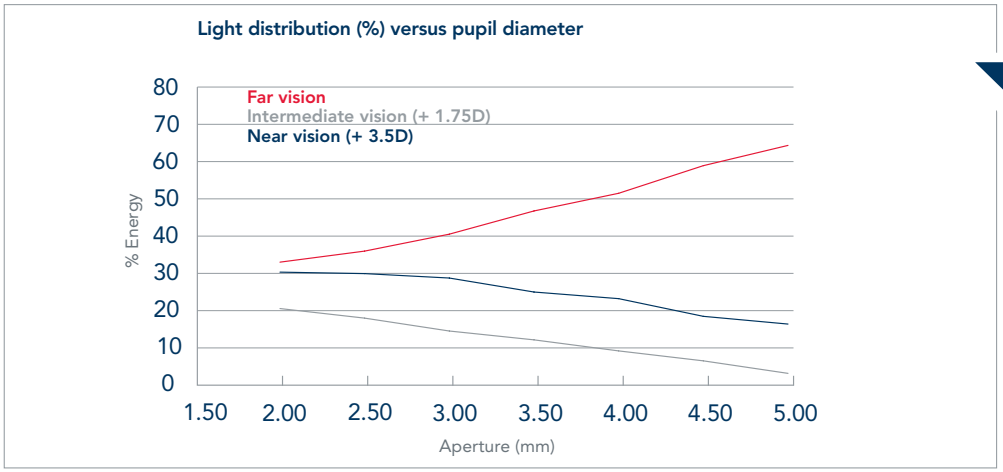
### What do the studies say?

"The PSFs (Point of Spread Function) data show similar halos intensity for FINE technology and EDOF IOL."

Reference:
Data on file with BVI.




**Apodization** optimizes the percentage of energy for far vision with the opening of the pupil.

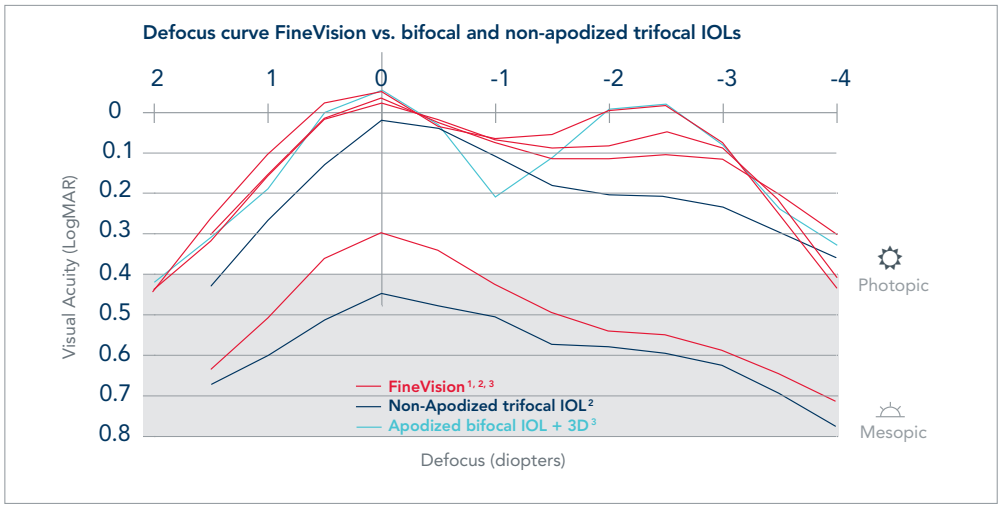



### What do the studies say?

"To match the eye's natural reflex, the percentage of energy allocated to the far vision increases with the opening of the pupil."

Reference:
D. Gatinel, et al.: Design and qualification of a diffractive trifocal optical profile for intraocular lenses, JCRS 2011; 37 : 2060-2067.

## FINE technology: best visual acuities at all distances




[1] B. Cochener, MD, PhD et al.: Clinical outcomes with a trifocal intraocular lens: a multicenter study, JRS 2014; 30 (11): 62-768.

[2] J. M. Martínez de la Casa, SEO 2014: Análisis de la calidad visual tras implantación de lentes intraoculares difractivas trifocales.

[3] Soraya M.R. Jonker, MD et al.: Comparison of a trifocal intraocular lens with a D3.0 D bifocal IOL: Results of a prospective randomized clinical trial, J Cataract Refract Surg 2015; 41:1631–1640.

# FINEVISION

## Trifocal IOL Family

FINEVISION HP TORIC
TRIFOCAL OPTIC

FINEVISION HP
TRIFOCAL OPTIC

FINEVISION TORIC
TRIFOCAL OPTIC

FINEVISION
TRIFOCAL OPTIC

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Please check the availability of products in your market with your sales representative.

Note: The intraocular lenses are not FDA approved.

**Contact Information:**
www.bvimedical.com/customer-support/

bvimedical.com



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