

VISION WITHOUT COMPROMISE



LENTIS[®] MplusFamily

The premium IOL family for optimal treatment of cataracts considering presbyopia and astigmatism

LENTIS® MplusFamily

The premium multifocal IOL family with the varifocal effect - as individual as your patients



Vision without reading glasses

Presbyopia

For many patients, the age-related deterioration of near and intermediate vision goes hand in hand with a sense of losing their freedom and independence. Multifocal intraocular lenses are an excellent alternative to reading and varifocal spectacles and offer a permanent solution to presbyopia.

Individual visual requirements need individual solutions!

LENTIS® Mplus MF20

20
Mplus
Mplus^{toric}



Near

Intermediate

Distance

- For early presbyopia
- Life style preference for intermediate ranges (computer work, driving, etc.)
- Zero tolerance of side effects

LENTIS® Mplus MF30

30
Mplus
Mplus^{toric}



Near

Intermediate

Distance

- Allrounder for active daily life style requirements
- Balanced for all distances
- Successful for more than 10 years

LENTIS® Mplus^XMF30

30
Mplus^X
Mplus^Xtoric



Near

Intermediate

Distance

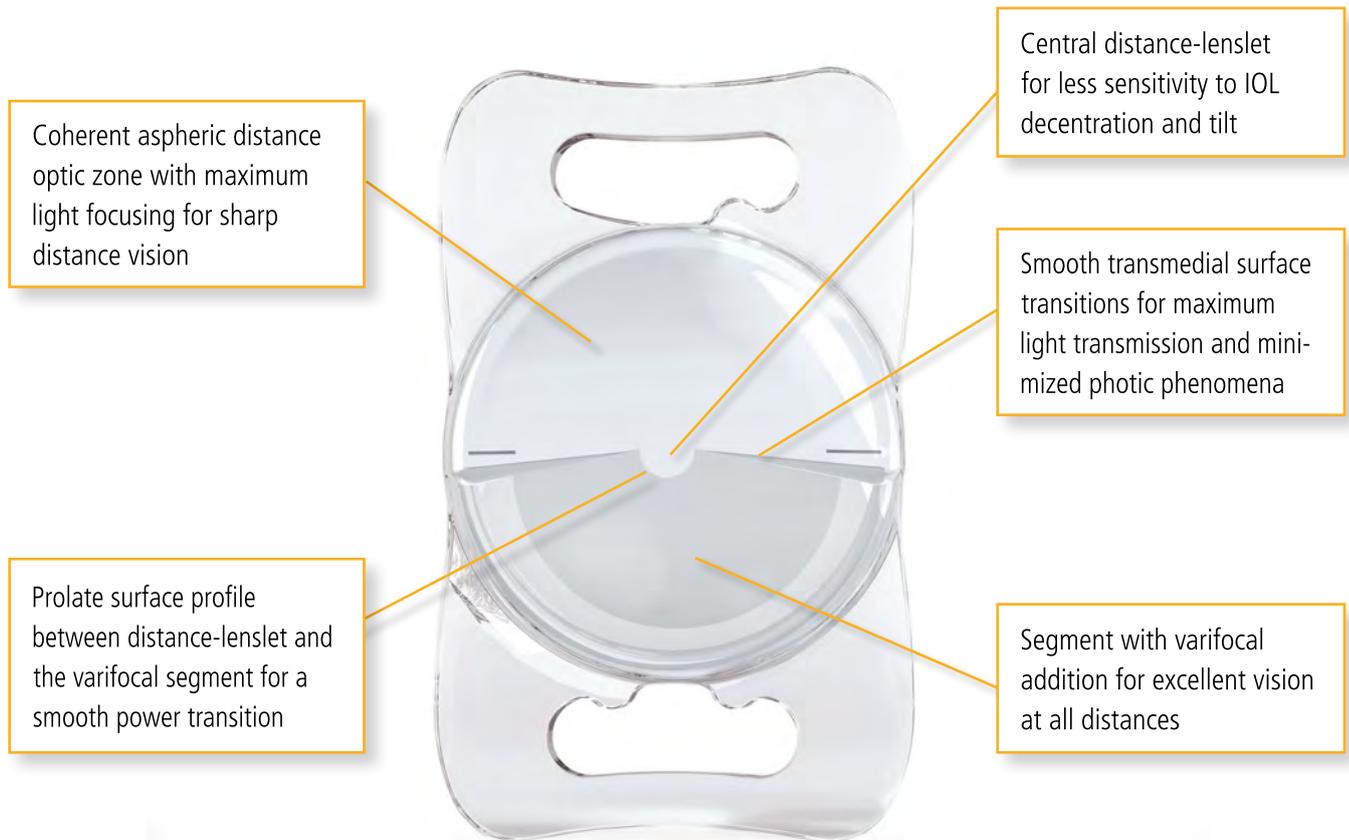
- "X" -tra power for near ranges
- Optimised for intense reading

LENTIS[®] MplusFamily

Unique asymmetrical-refractive optical design

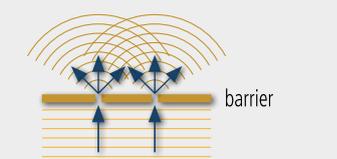
Continuous Transmission Technology

- Large distance optic zone
- Smooth transition from distance to near
- Maximum light transmission for excellent vision and contrast

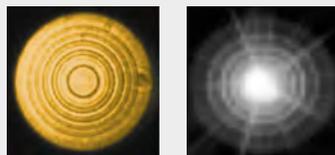


No unwanted side effects

Little to no dysphotopsia due to unique refractive segment optics



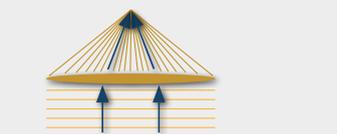
Diffractive operating principle (light diffraction)



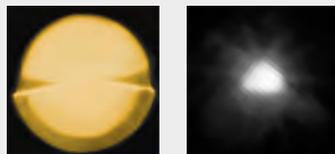
Diffractive IOL structure with focus display



Patient perception of actual halos and glare*



Refractive operating principle (refraction of light)



Refractive segment optics with focus display



Patient perception with the LENTIS[®] Mplus*

* Source: Presentation at ESCRS 2018, Dr. P. Versace

LENTIS® MplusFamily

Clinical results



Optimised vision with LENTIS® Mplus MF20

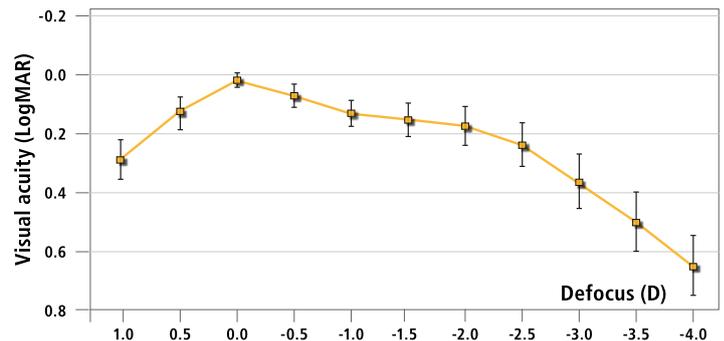
in 198 eyes

<https://www.springermedizin.de/factors-for-good-near-and-distance-visual-outcomes-of-multifocal/18031582>

Jung Wan Kim (MD)



- Results show excellent distance visual acuity up to 1.0 and good near visual acuity at 40cm
- Excellent defocus performance
- Maximum IOL performance for younger patients with a low level of residual refraction



Reading performance of LENTIS® Mplus MF30

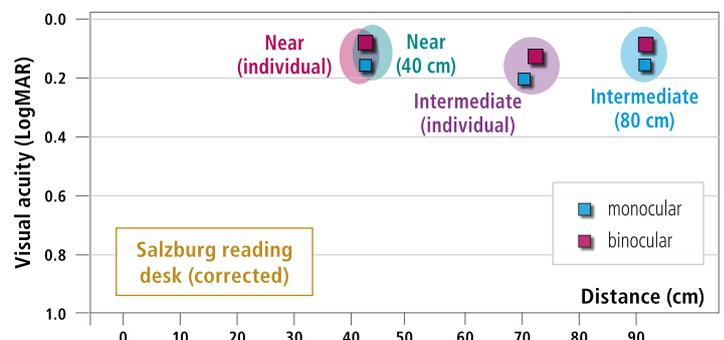
in 34 eyes

<https://www.healio.com/ophthalmology/journals/jrs/>

Prof. Gerd Auffarth



- Good near and intermediate vision as well as good reading speed
- Individually preferred reading distance: 39cm
- Individually preferred intermediate distance : (extra space) 62cm



Intermediate and near vision with LENTIS® MplusX

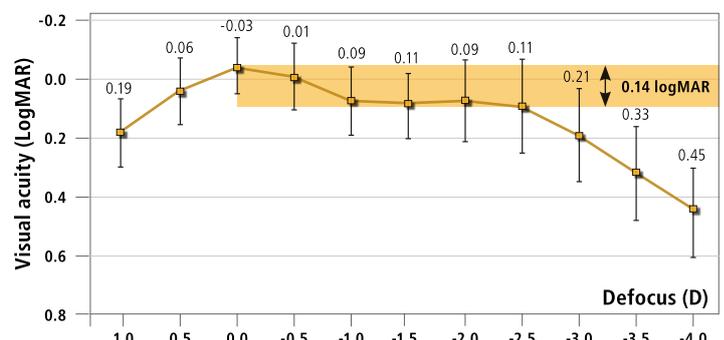
in 50 eyes

[https://www.ajo.com/article/S0002-9394\(18\)30171-5/fulltext](https://www.ajo.com/article/S0002-9394(18)30171-5/fulltext)

Prof. Thomas Kohnen



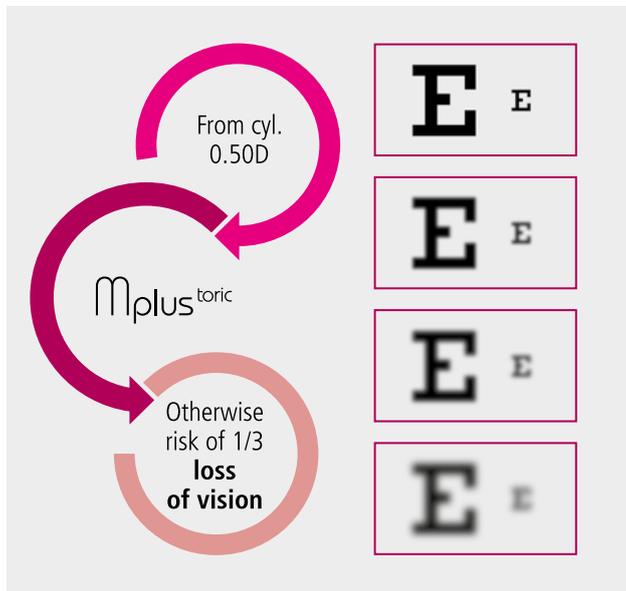
- Continuously good visual acuity at all distances, especially for intermediate and near
- Good reading speed
- Very good contrast sensitivity



LENTIS[®] Mplus^{toric} Family

Multifocal-toric premium IOLs

for correcting presbyopia and astigmatism



From cyl. 0.50D

Mplus^{toric}

Otherwise risk of 1/3 loss of vision

E E

E E

E E

E E

Irregular curvature of the cornea (astigmatism)

Impaired vision at all distances, due to an irregular curvature of the cornea



Vision without astigmatism

Vision with astigmatism

Clinical results



Results of LENTIS[®] Mplus | Mplus^{toric} MF30T

in 9366 | 89 eyes

<https://www.sciencedirect.com/science/article/abs/pii/S0886335013001120>

Jan Venter (MD)



- Effective correction of corneal astigmatism
- Stable positioning in the capsular bag, no significant IOL rotation
- Excellent visual acuity and high patient satisfaction



Refractive stability of the LENTIS[®] Mplus^{toric} MF30T

in 70 eyes

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4886883/>

Patrick J. Chiam (MD)



- High rotational stability (<2.8°)
- Effective correction of the corneal cylinder
- Pre-op astigmatism average cyl 1.41D
- Post-op residual astigmatism average cyl 0.18D

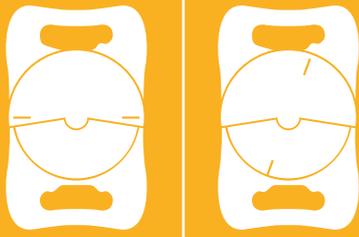


I am impressed with the wide range of customizable correction possible with the LENTIS[®] Mplus^{Xtoric}, and patients like the fact that they will receive “their” lens.

https://www.teleon-surgical.com/media/oculentis_supplement_022014.pdf

Ludger Hanneken (MD)





LENTIS[®] Mplusfamily

One-piece multifocal and multifocal toric posterior chamber lenses for optimized depth of field with aspherical surface for capsular bag fixation

Product	LENTIS [®] Mplus [×] Mplus	LENTIS [®] Mplus [×] toric Mplus ^{toric}
Type	Foldable one-piece multifocal acrylic IOL for capsular bag fixation	Foldable one-piece multifocal toric acrylic IOL for capsular bag fixation
Optics Size Overall Length	6.0 mm 11.0 mm	6.0 mm 11.0 mm
Haptic Angulation	0°	0°
Optics Design	- Dioptres: Convex-concave + Dioptres: Biconvex Aspherical surface - posterior, sector-shaped nearvision segment - anterior	Biconvex Aspherical and toric surface - posterior, sector-shaped nearvision segment- anterior Additionally available with violet light filter
IOL Design	Optics and haptics with square edges, posterior 360° continuous barrier effect	Plate haptic Optics and haptics with square edges
Material	HydroSmart [®] - a copolymer, consisting of acrylates with hydrophobic surface, UV absorbing	
Available Diopters	SE -10.0D to -1.0D (1.0D) SE ±0.0D to +36.0D (0.5D)	sph. ±0.0D to +36.0D (0.01D) cyl. +0.5D to +10.0D (0.01D) (sph. + cyl. < 40.0D) axis (1°-scaling)
Refractive Index	1.46	1.46
A constant (nominal)	118.0	118.0
Sterilisation	Steam sterilisation	Steam sterilisation
Storage	Supplied in sterile water	Supplied in sterile water
Recommended Injector-Sets [disposable]	Check compatibility of IOL with injector matrix provided at https://lentis-eifu.com	

Source: IOLcon.org

Please note that neither Teleon nor IOLcon can be held responsible for correctly specifying the optimized A constants for the Zeiss IOLMaster. The specified constants are therefore to be seen as a guide value and starting point for calculating the IOL refractive power

Advantages of the LENTIS[®] Mplusfamily compared to the diffractive MIOL restoration:

- Natural, continuous vision over all distances thanks to the varifocal effect
- Uniquely brilliant optics without rings
- Very little to no dysphotopsia
- Maximum use of light

MANUFACTURER:



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