

Trifocal MICS IOLs



AT LISA tri 839MP

The first trifocal preloaded true-MICS IOL
for real intermediate vision.



We make it visible.

The moment you see your patient's new vision matches her youthful attitude.

This is the moment we work for.



// ACTIVE LIFESTYLE
MADE BY CARL ZEISS

Enjoy life in all its dimensions

Today you are often confronted with a major challenge: patients who consult you for cataract or presbyopia treatment are becoming increasingly more demanding regarding the outcome of the surgical procedure. They expect surgery to provide them with a quality of vision which equals what they enjoyed before the aging process of their eyes started. They want to lead an active life without being troubled by eyeglasses.

This is exactly where the new trifocal AT LISA® tri 839MP comes into play.

AT LISA tri is the 3rd generation of ZEISS multifocal IOLs. This new member of the AT LISA family is based on the well-known, high performance AT LISA platform with superior intermediate vision.

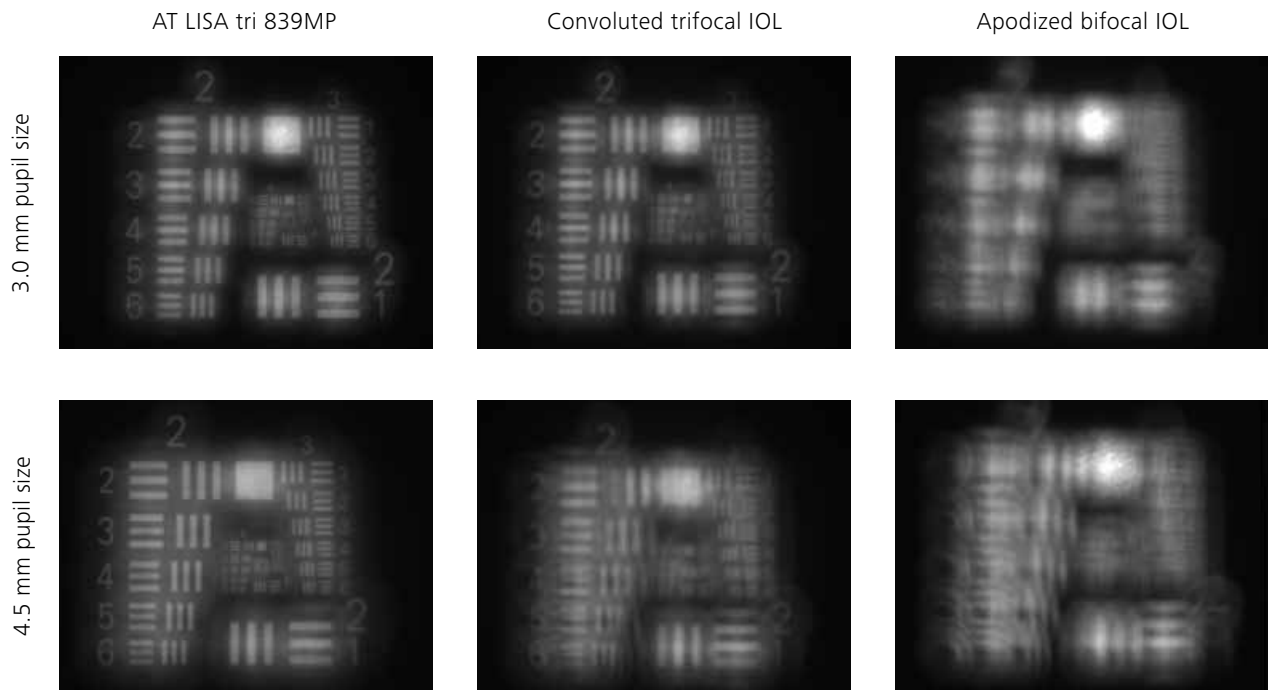
The preloaded trifocal AT LISA tri 839MP has the capacity to provide your patients with excellent functional vision, not only at near and far but also at intermediate distances. It gives your patients the best chance of living an active life without glasses and enjoying it in all its dimensions.



Far better intermediate vision performance

The unsurpassed intermediate vision of AT LISA tri 839MP becomes evident when compared with the performance of a convoluted trifocal or an apodized bifocal IOL.

Intermediate vision of AT LISA tri vs. convoluted trifocal and apodized bifocal IOLs*



U.S. Air Force Resolution Target Test (AFT) for AT LISA tri 839MP and other bi- or trifocal IOLs at intermediate distance.

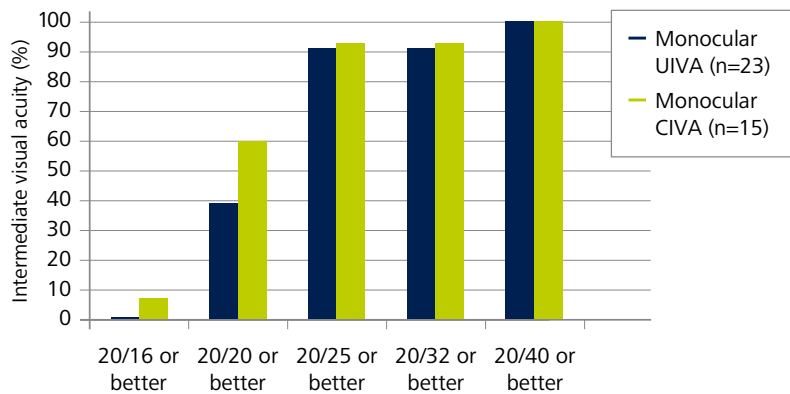
AT LISA tri 839MP displays a far better intermediate visual performance, even under poor light conditions.

**Data on file*

“AT LISA tri offers far better intermediate vision performance to my patients, even in low light conditions, without compromising performance in near and far vision.”¹



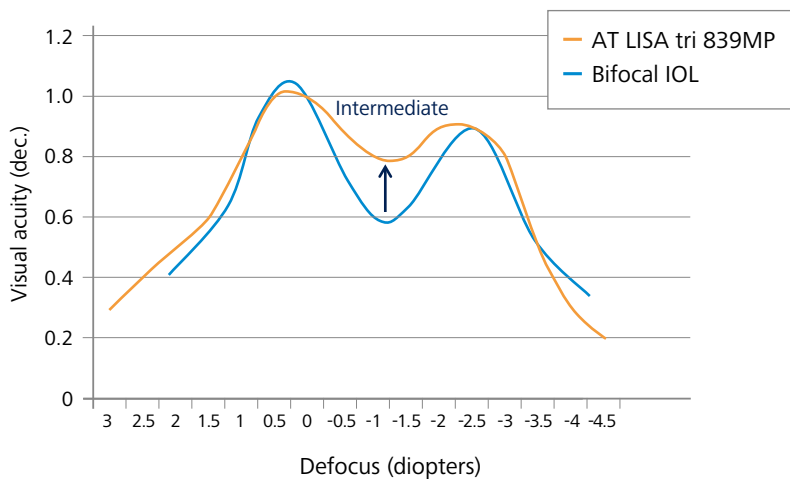
AT LISA tri 839MP intermediate visual acuity*



Corrected visual acuity pre and post-op at intermediate distance*

AT LISA tri, as shown in the charts on the left hand side, significantly improves intermediate visual acuity enabling patients to feel more comfortable performing their intermediate distances activities.

Monocular defocus curve AT LISA tri vs. bifocal IOL*



*Data on file

¹Dominique Piétrini, MD (Paris, France)

Cutting edge trifocal optic for optimal vision

The AT LISA tri 839MP represents a major step forward to support even your most demanding patient's new lifestyle. This brand-new trifocal MICS IOL is the result of years of experience in the development of optical designs to match your highest expectations for a predictable, efficient multifocal IOL fitting a wide range of patients.

The optical zone of the AT LISA tri 839MP provides a near addition of +3.33 D for a comfortable reading distance, and an intermediate addition of +1.66 D which significantly improves intermediate vision without compromising near or far vision.

AT LISA tri 839MP geometry



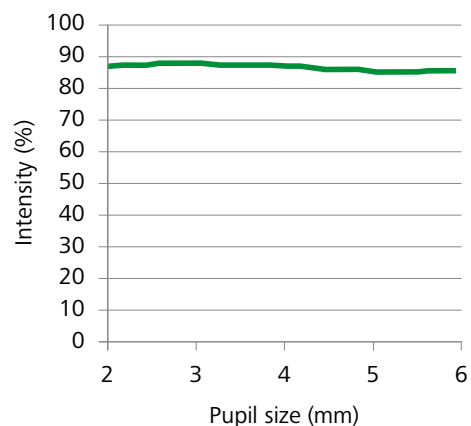
AT LISA tri has fewer rings on the IOL optic surface for reduced potential visual disturbances and improved night vision

**Data on file*

Unrivaled global light energy transmittance

The refractive-diffractive profile designed to enhance intermediate vision over the central optic of the AT LISA tri increases the overall efficiency of light transmittance to an average rate of 85.7%. Reinforced by the SMP technology used to design the lens surface, AT LISA tri does not have any sharp angles on the optic, resulting in ideal optical image quality with reduced light scattering. With AT LISA tri, even your most demanding patients will have a better chance to enjoy clear vision at all distances with maintained contrast sensitivity and lower visual disturbance.

AT LISA tri light energy transmittance*

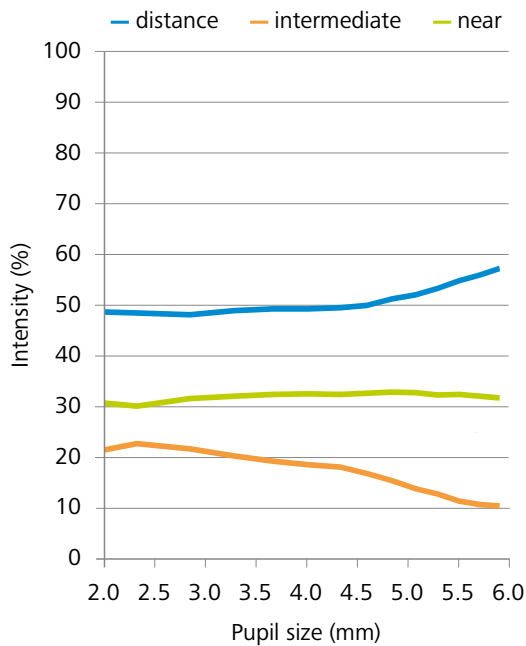


AT LISA tri has a stable light energy transmittance of around 85.7%.

Asymmetrical light distribution re-invented

With a unique asymmetrical light distribution of 50 %, 20 % and 30 % between far, intermediate and near foci, AT LISA tri is able to provide more satisfying and predictable visual outcomes for younger patients with active pupils. You can expect an unsurpassed rate of eyeglass independence for a very large group of patients.

AT LISA tri asymmetrical light distribution*

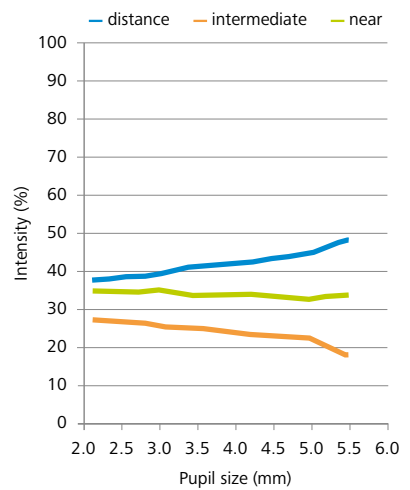


AT LISA tri displays unique and asymmetrical light distribution on the various foci.

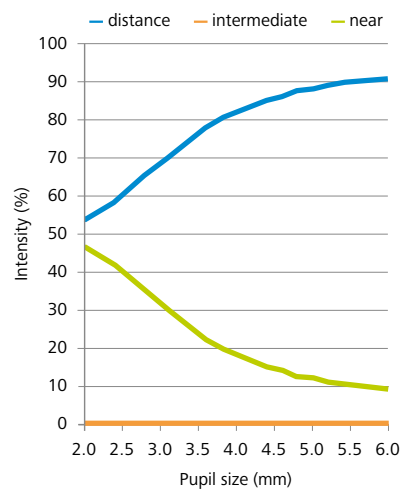
The advantages of the asymmetrical 50 %, 20 % and 30 % light distribution of AT LISA tri is particularly evident when compared to a convoluted trifocal or an apodized bifocal IOL.

*Data on file

Convoluted trifocal IOL light distribution*



Apodized bifocal IOL light distribution*



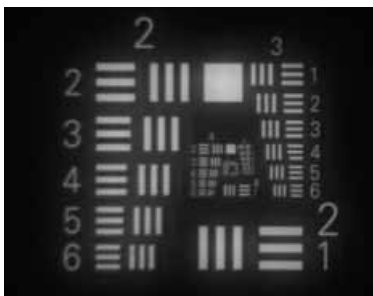
High resolution under all light conditions

Many of your cataract and most of your refractive patients have the desire to get rid of their glasses. They also want to be able to switch naturally between all distances without any influence from the surrounding light conditions.

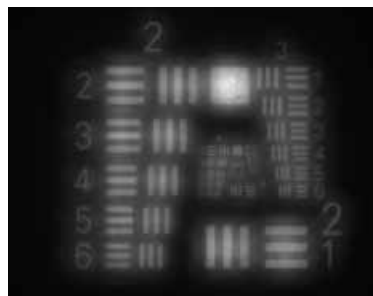
AT LISA tri 839MP produces images with high resolution for all distances under all light conditions. Your patients will be able to switch back and forth between targets at different distances without the need to put on corrective glasses.

AT LISA tri – far, intermediate and near vision in normal light conditions*

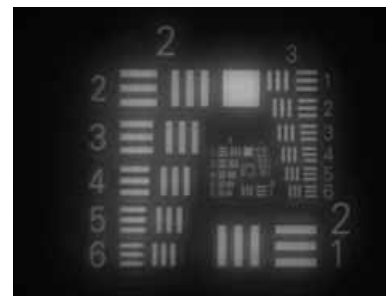
Far distance



Intermediate distance



Near distance



U.S. Air Force Resolution Target Test (AFT) for AT LISA tri 839MP at far, intermediate and near distance at 3.0 mm pupil size.

**Data on file*

Maximized independency from pupil size

With an aberration correcting aspheric optical design providing maximized pupil independence, the AT LISA tri allows your patients to enjoy sharp functional vision whatever the lighting conditions and the distances. AT LISA tri is independent of pupil diameter up to 4.5 mm.

High performance even in low light conditions

Even poor light conditions have only a minimal influence on the good functional vision achieved by AT LISA tri at all distances. This good result is confirmed by the data of the Modulation Transfer Function (MTF) test as shown hereafter, for all distances.

Image quality at 4.5 mm pupil size for intermediate vision*

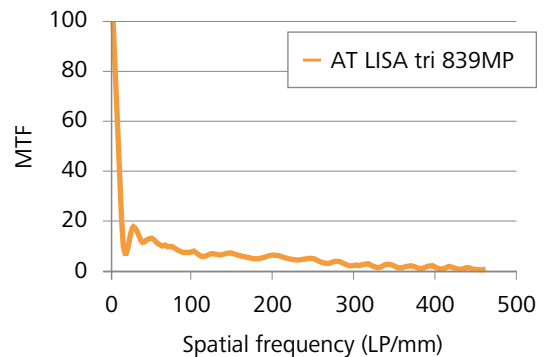


Image quality at 4.5 mm pupil size for distance vision*

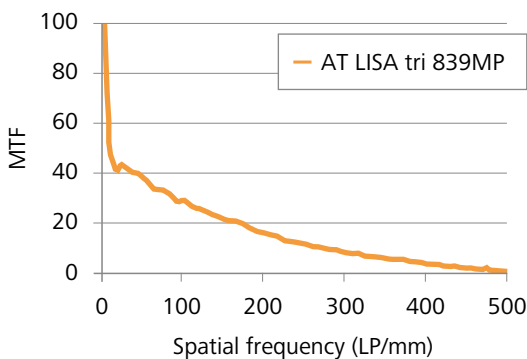
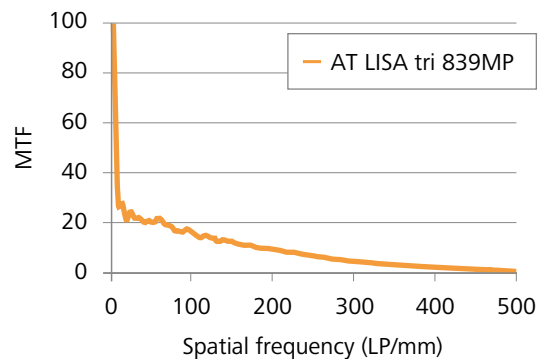


Image quality at 4.5 mm pupil size for near vision*



*Data on file

AT LISA tri 839MP

Much more than just an innovative optic

AT LISA tri does not only feature an outstanding trifocal optic, but also represents the easiest way to deliver the most advanced durable optical performance. AT LISA tri is preloaded, MICS and offers double PCO prevention.



Make it easy with the preloaded AT LISA tri

The innovative BLUEMIXS 180 injector combined with the preloaded AT LISA tri 839MP allows easy and safe implantation whatever your surgical technique and your incision size.

BLUEMIXS 180 injector is the ideal tool for easy and safe implantation of the preloaded AT LISA tri through a 1.8 mm incision.





“Since my operation I do not wear glasses at all and I have very good vision at all distances. I do not wear glasses to read or even to work on the computer. I am fully satisfied with the results and I would definitely do it again without any doubt. I would recommend this surgery to friends.”

Make it safer with the MICS AT LISA tri

Based on the well-known 4-haptic design of the ZEISS MICS IOLs, AT LISA tri provides highly reliable stability as well as ease of implantation through 1.8 mm.



360° ZEISS anti-PCO barrier

Make it last with the AT LISA tri anti-PCO profile

The formation of PCO has an important influence on the multifocal IOL satisfaction of patients who have high visual expectations over time. The design of the new AT LISA tri includes a ZEISS anti-PCO posterior profile. This reinforces the effect of the square edges for double prevention of PCO formation in order to maintain good quality of vision for as long as possible. The ZEISS anti-PCO profile is designed to be efficient regardless of the diopter of the IOL.



Square edges



For a new vision of life – by day and night

“My patients report significantly less halos and glare with the AT LISA tri, even when directly questioned about these phenomena.”

Elisabeth Frieling-Reuss, MD
(Munich, Germany)

“With the AT LISA tri 839MP IOL, excellent far and intermediate vision is combined with perfect near vision quality.”

Jean-François Montin, MD
(Paris, France)



The moment innovation and passion
lead to the best vision for your patient.
This is the moment we work for.

// OPHTHALMIC SOLUTIONS
MADE BY CARL ZEISS

Attract new patients

Satisfied patients are the best multipliers for multifocal IOL patient recruitment. Based on the well-known AT LISA concept and platform, the AT LISA tri offers excellent outcomes at near, far and intermediate distances and much more besides: re-invented light distribution between the three focal points and increased light energy transmittance for maintained contrast sensitivity rate and lower visual disturbance.

- AT LISA tri provides you with the confidence of using the most advanced presbyopia correcting IOL technology, offering state-of-the-art visual outcomes to an extended group of patients.
- Your patients will feel as if the vision of their youth has been restored as the new trifocal AT LISA tri gives them the best chance of living an active life without glasses and enjoying it in all its dimensions.
- AT LISA tri 839MP is your reliable tool to extend your multifocal IOL patient base in total confidence.

²Jean-François Montin, MD (Paris, France)

“The intermediate vision improvement allowed by the AT LISA tri 839MP IOL is a major benefit for prelex patients and patients who want purely comfort-oriented refractive surgery.”²



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AT LISA 809MP
AT LISA toric 909MP



0459 BLUEMIXS 180 injector



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