Innovative Technology
For 1.8 mm Micro Incision Cataract Surgery

The MICS™ Platform
The Exclusive 1.8 mm Solution From Bausch & Lomb

Stellaris® MICS
The Stellaris Vision Enhancement System delivers the critical capabilities required for 1.8 mm MICS: superior fluidics control, efficient cutting dynamics and the ergonomic insights that make the system easy to use.

Akreos® MICS
The Akreos MICS Lens combines the vision benefits of an aspheric acrylic lens with the material and design characteristics that allow it to be inserted into a true 1.8 mm incision.

MICS Instruments
The MICS Platform includes precision performance instruments from STorz ophthalmics for both C-MICS and B-MICS procedures.

MICS Viscoelastic
Amvisc® PLUS is the versatile viscoelastic that is ideal for every step of your 1.8 mm MICS procedure.

MICS Support
When you move to the MICS Platform you benefit from a comprehensive support program designed to assist cataract surgeons in developing and perfecting their MICS techniques.

References
An Integrated Platform For 1.8 mm MICS™

Only Bausch & Lomb can deliver the complete suite of products that finally makes 1.8 mm cataract surgery a reality. The Stellaris Vision Enhancement System can be used in concert with the Akreos® Ao Micro Incision Lens, “Akreos MICS,” specialized STORZ® Ophthalmic 1.8 mm Instruments, Amvisc® PLUS Viscelastic and benchmark Bausch & Lomb support to provide surgeons and patients with the far-reaching benefits of cataract surgery through a smaller incision.

MICS Phaco — Stellaris® Is The Key Element

Cataract removal through the smallest possible incision can produce universal advantages, including increased wound sealability1 and a reduction in both endothelial cell loss1 and surgically induced astigmatism2. Bausch & Lomb has redefined state of the art phacoemulsification with its 1.8 mm MICS solution, delivering the fluiddics control and cutting efficiency to make the procedure through a 1.8 mm incision a reality.

An Easy Transition To 1.8 mm MICS

With a complete, integrated suite of products your transition to 1.8 mm MICS is easy. You can move to 1.8 mm using your preferred technique and with only minimal change to your procedure settings.

MICS Phaco And The Industry-Leading Crystalens®

Bausch & Lomb has redefined state-of-the-art phaco with its 1.8 mm MICS. The advent of MICS Phaco means that surgeons can benefit from Bausch & Lomb’s powerful clinical combination: phacoemulsification through a 1.8 mm incision and advanced IOL technology, including the Crystalens accommodating lens and Akreos AO Lens that can be implanted through an enlarged incision.

I would continue to use 1.8 mm C-MICS even if there was no (1.8 mm) lens … It’s much easier to work through a small pupil, the visualization is much better. I just think it’s better technology with or without the smaller lens.

Terence M. Devine, MD

The conversion from standard phaco to Stellaris’ 1.8 mm MICS was a breeze. The safety and control with 1.8 MICS was there from the first case on. Because of the advancements with Stellaris 1.8 MICS, I exclusively use this technology today.

John D. Hunkeler, MD
Customized Fluidics Based on Your Personal Preference

You can customize the Stellaris® Vision Enhancement System based on your personal fluidics preference, choosing the flow-based or vacuum-based StableChamber™ Fluidics System.

Stellaris is a system designed to allow surgeons to adopt new surgical techniques using the fluidics they are comfortable with. Having used the Flow Module I found the chamber stability and followability truly exceptional.

UDAY DEVGAN, MD

Flow-Based StableChamber™ Fluidics

The Advanced Flow Module allows intra-operative toggling between flow and vacuum modes while accurately monitoring and maintaining targeted vacuum and intra-operative aspiration rates.

- Monitors vacuum levels in flow mode and controls vacuum in vacuum mode for predictable performance
- Regulates aspiration flow once occlusion breaks, stabilizing the anterior chamber for increased surgeon control

"I prefer 1.8 mm MICS because I have a more stable chamber and better control while maintaining equal lens removal efficiency."

UDAY DEVGAN, MD

Vacuum-Based StableChamber™ Fluidics

The Vacuum Fluidics Module goes beyond “Venturi” and provides enhanced control of rise times, holding force, followability and aspiration for efficient lens removal.

- Solid chamber stability is achieved throughout the procedure for increased predictability
- Vacuum levels of up to 600 mmHg can be delivered with steady low flow for efficient MICS
- StableChamber tubing controls flow in high vacuum settings preferred for MICS

"The control on this machine with the flow is phenomenal ... There is such a responsiveness to vacuum and flow changes that I don’t get any surge."

ROSA BRAGA-MELE, MD

Safety

"Stellaris demonstrates significantly less surge than Infiniti (P=0.0001)."

"The Stellaris system had the lowest absolute temperature rise at the wound ... And is the most consistent in terms of its cooling of the tip region."*

"I have been using only the Stellaris System with 1.8 MICS for over a year. The chamber stability at all levels of phaco power and vacuum provide a safe and comfortable feeling while actually decreasing my phaco time."

J.E. “JAY” MCDONALD II, MD

*The Stellaris system had the lowest absolute temperature rise at the wound ... And is the most consistent in terms of its cooling of the tip region.2"
Attune™ Energy Management System:
Efficient Cataract Removal With Minimal Energy

Attune focuses energy at the needle tip for improved cutting efficiency. 9

Stellaris has the fastest cutting rate at the lowest power setting. 10

Efficiency

Attune™ Phaco Handpiece

Six-Crystal, 28.5 kHz

Stellaris

Millennium

Sovereign

Infiniti

1.5
1.2
1.05
1

Comparative stroke length at similar power setting.

Advanced Waveform Modulation

- Foot Control Mapping, including "Front-Loading" and "Back-Loading" profile control
- Dual-linear control of aspiration and ultrasound
- Programmable Advanced Waveform Modulation including variable waveform duration and depth

Attune Advanced Software

Focused Cavitation

Stellaris Cavitation

Infiniti Cavitation

Attune focuses energy at the needle tip for improved cutting efficiency. 9

Cutting Efficiency

- Stellaris 66% Duty Cycle (60%)
- Infiniti Torsional (100%)
- Stellaris Mixed (Torsional 100% - Longitudinal 60%)

Stellaris has the fastest cutting rate at the lowest power setting. 10

...I think any surgeon who picks up a 1.8 mm coaxial device will be literally enamored with this technology.

LOUIS D. "SKIP" NICIAMIN, MD

A unique combination of waveform duration and depth increases phaco efficiency.