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Stellaris

Innovative Technology
For 1.8mm Micro Incision Cataract Surgery



An Integrated Platform For 1.8mm MICS™

Only Bausch + Lomb can deliver the complete suite of products that finally makes 1.8mm 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 1.8mm Instruments, Amvisc® PLUS Viscoelastic and benchmark Bausch + Lomb support to provide surgeons and patients with the far-reaching benefits of cataract surgery through a smaller incision.

Coaxial or Biaxial More Flexibility for MICS Procedure



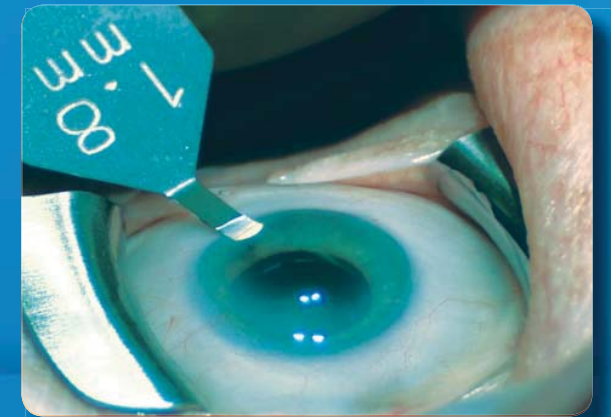
“ There is a substantial body of evidence that supports the use of MICS to improve your cataract surgery outcomes. The overall patient benefits can be summarised as a reduction in surgical trauma and the elimination of surgically induced astigmatism. ”
Jorge L. Alió, MD, PhD, Spain

“ The conversion from standard phaco to Stellaris 1.8mm 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, USA

MICS Phaco — Stellaris® Is The Key Element

Cataract removal through the smallest possible incision can produce universal advantages, including increased visual recovery⁽¹⁾ and a reduction in both endothelial cell loss⁽²⁾ and surgically induced astigmatism.⁽³⁾

Bausch + Lomb has redefined state of the art phacoemulsification with its 1.8mm MICS solution, delivering the fluidics control and cutting efficiency to make the procedure through a 1.8mm incision a reality.



“ With micro coaxial techniques, wound integrity can also be preserved during and after the operation by separating the vibrating needle from the corneal wounds with a silicone sleeve. Stellaris is establishing 1.8 MICS as a new standard of care for all of us. ”
Boris Malyugin, MD, PhD, Russia

“ I am convinced that biaxial cataract surgery is the future. Now this new equipment, software and instrumentation is available, the surgery is safe, efficient and minimally invasive. Patients have better visual recovery in the immediate postoperative period with very low complication rates. The arguments used for many years against the biaxial approach really no longer stand. This technique actually shows great benefits, especially in complicated and hard cataract cases. ”
H. Burkhard Dick, MD, Germany

An Easy Transition To 1.8mm MICS

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



1) Zheng L, Merriam JC, Zaider M. Astigmatism and visual recovery after large incision extracapsular cataract surgery and small incisions for phacoemulsification. *Trans Am Ophthalmol* 1997; 95: 387-410.
2) Zafirakis, P. Microincision Cataract Surgery. Stellaris Phaco Platform Versus Infiniti Torsional Ultrasound Phaco Mode: Randomized Comparative Clinical Study. ASCRS Symposium on Cataract, IOL and Refractive Surgery, 2009, San Francisco, CA.
3) Heg Wee Jin. Surgically Induced Astigmatism in Standard versus Micro Incision Phacoemulsification. WOC 2008, Hong Kong.

Safety

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.”
Uday Devgan, MD, USA

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 mm Hg can be delivered with steady low flow for efficient MICS⁽⁵⁾
- StableChamber tubing controls flow in high vacuum settings preferred for MICS

Flow-Based StableChamber™ Fluidics

The Advanced Flow Module allows intra-operative toggling between flow and vacuum modes⁽⁴⁾ 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, stabilising the anterior chamber for increased surgeon control

Cooler at the incision

Thermal Safety

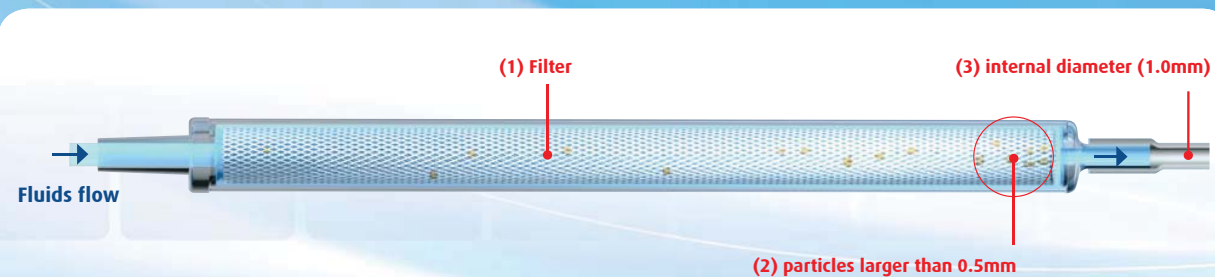


Ozil With Kelman Needle

Attune™ With 1.8mm MICS Needle

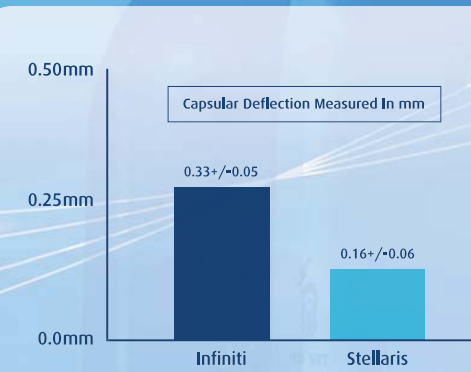
The reproducible cooling dynamics of the Stellaris System advances the safety of 1.8mm procedures.⁽⁷⁾

StableChamber™ Tubing - Piece-of-mind Phaco Solution



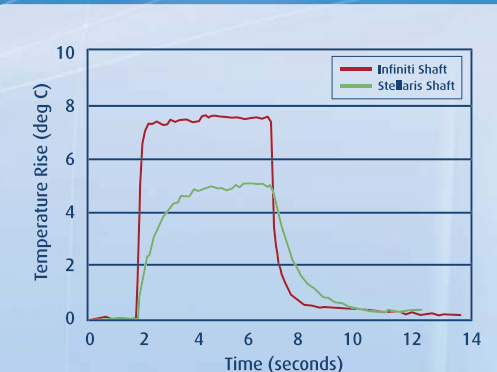
The StableChamber tubing incorporates a unique filter (1) in the aspiration line. This filter captures particles larger than 0.5mm (2) while still allowing fluid to flow freely through the line. To create flow resistance, small diameter tubing (1.0mm (3)) is connected to the filter.

Rock-Solid Chamber Stability



Stellaris demonstrates significantly less surge than Infiniti (P<0.0001).⁽⁴⁾

Lowest Temperature Rise



“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.”⁽⁸⁾

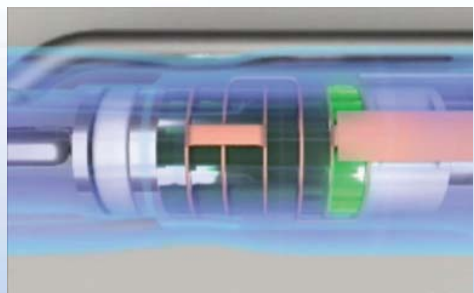
4) Braga-Mele, R. Putting it all together. AAO 2008.
5) Devine, T. Stellaris Safety and Efficiency Through Optimized Fluidics and Power. WOC 2008.
6) Olson, R. The Science of Phaco: Practical Implications! ASCRS 2008.
7) Lindstrom, R. Global results from the Stellaris Surgical Study. ASCRS 2008.
8) Schafer, M. Thermal characteristics of phacoemulsification tips. ESCRS 2008.

Efficiency

Attune™ Energy Management System: Efficient Cataract Removal With Minimal Energy

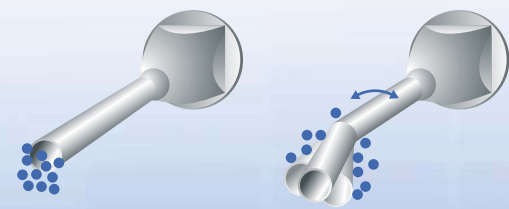
Cutting Efficiency

Attune™ Low Frequency Handpiece



The six-crystal Attune handpiece delivers optimized 28.5 kHz frequency for consistent power delivery and increased stroke length.

Focused Cavitation

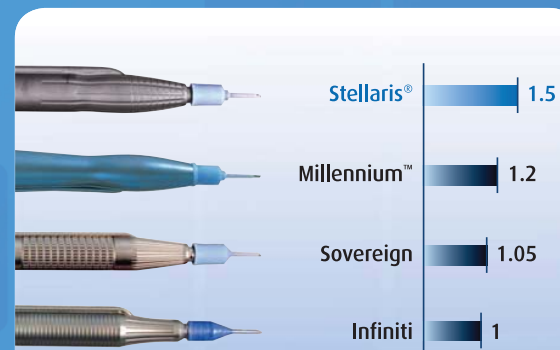


Stellaris Cavitation

Infiniti Cavitation

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

Optimised Stroke Length



Comparative stroke length at similar power setting.

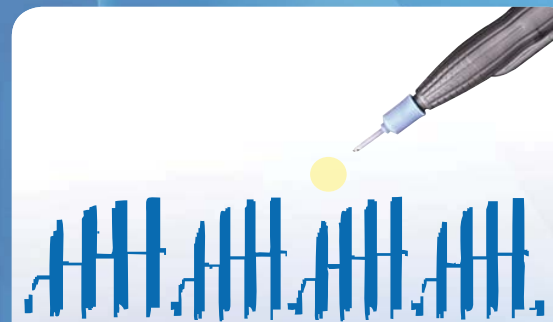
Focused Cavitation



“ 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, USA

Advanced Waveform Modulation Software

Improved Followability



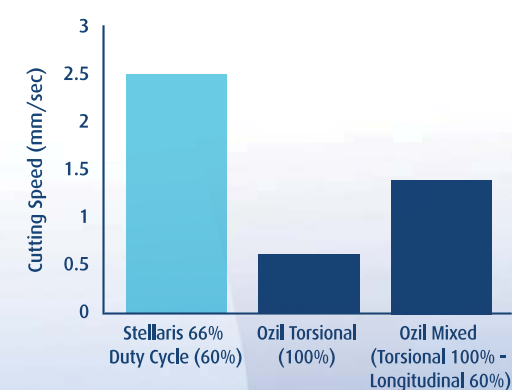
A unique combination of waveform duration and depth increases phaco efficiency.

Dual Linear Foot Control



The Stellaris™ Dual Linear foot control allows simultaneous intraoperative control of aspiration and phacopower.

Cutting Performance



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

9) Schafer, M. The Physics of Phaco: The Role of Cavitation in Emulsification. ASCRS 2007.

10) Schafer, M. Analysis of the Cutting Forces using Different Phacoemulsification Modalities. ASCRS 2009.

Ease of use

Wireless control

Surgeons can effortlessly control the Stellaris System's surgical parameters through its enhanced dual-linear foot pedal, providing:

- Intraoperative control of aspiration and power
- A full range of programmable settings for individual surgical preferences
- Wireless connectivity – position it where it's most convenient without any cord clutter

Stellaris wireless Dual-Linear foot pedal



 Bluetooth™

Confidence at your fingertip

The Stellaris handpiece is the touchpoint to surgical success, delivering:

- Fine-tuned balance to minimise hand fatigue
- An expansive range of grip diameters for unsurpassed comfort and control for all hand sizes
- Luerlock™ connection for extra safety

Fine-tuned balance



Stellaris six crystal handpiece showing centre of gravity.

Intuitive Interface and Video Capabilities

The Stellaris system provides an ingenious view of cataract surgery that allows surgeons and OR staff to collaborate and improve productivity through:

- An high-definition touch display that provides superior visibility
- Intuitive function icons and controls located in fixed positions to facilitate user orientation
- An on-screen video help system for rapid learning
- Video Inlay and Video Overlay capabilities to easily view the procedure and surgical settings

Video Inlay and Video Overlay



Stellaris®  MICS™
Vision Enhancement System

A true global MICS System

The Stellaris can be customised for every surgical center needs. The graphic user interface becomes available in 18 languages.



- | | |
|------------|-----------|
| English | Danish |
| German | Finnish |
| French | Greek |
| Spanish | Czech |
| Italian | Hungarian |
| Dutch | Polish |
| Portuguese | Russian |
| Swedish | Chinese |
| Norwegian | Japanese |

Product Support

Comprehensive Support For Maximum Performance

Bausch + Lomb offer a wide range of support services, helping to ensure that our surgical systems consistently deliver peak performance and exceptional results, to help you achieve complete patient satisfaction.

St
Stellaris

Su
Support

Quality Service Worldwide

Certified Bausch + Lomb's service engineers:

- Receive hands-on product training that is consistent worldwide
- Must pass rigorous certification tests
- Continuously undergo additional training to keep up with new products and features
- Are trained to build strong customer relationships, for effective response to your service needs

Global Logistics Capabilities

Our logistical capabilities maximize uptime, which in turn helps maximize your productivity:

- A global network of service representatives and distributors helps ensure quick access to spare parts
- Local representatives stock routinely needed parts and consumables for immediate delivery
- Regional warehouses can dispatch parts around the clock, most parts can be delivered almost anywhere in 24 hours

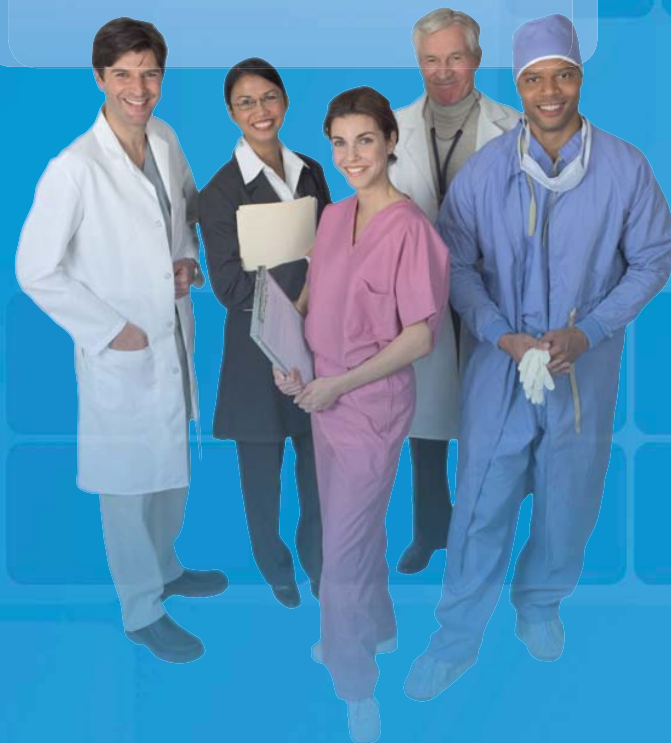
Flexible Service Agreements

Service Agreements offer:

Flexible, scheduled service visits
Predictable maintenance costs
Increased equipment uptime
Optimisation to factory specifications

Service Agreements are designed to meet the needs of three key audiences:

- Surgeons and/or staff who demand uptime and reliability
- Administrators and procurement personnel who seek investment protection
- Customer equipment maintenance personnel who want reliable partners for troubleshooting and maintenance



Centres of Customer Excellence

Together we use our skills, talent, passion and resources to meet our customers needs every time!

Stellaris®  MICS™
Vision Enhancement System

Customer Service Specialists

Bausch + Lomb's Customer Service Specialists are trained to become your administrative partners. Located in several multilingual Centres of Customer Excellence, they provide personalised attention and manage proactively customer's account.

Our people work in collaboration with the entire B+L organisation in ensuring continuous improvement of our service targets.

Customer Service Specialists:

- Provide help and advice on B+L's products or services
- Process orders, forms, applications and requests
- Respond promptly to customer inquiries
- Handle and resolve customer complaints
- Direct requests and unresolved issues to the designated resource
- Follow up on customer interactions
- Listen and discuss environmental impact


BAHERMAHD
Tel: 66476078-80





The MICS™ Platform

The Exclusive 1.8mm Solution From Bausch + Lomb

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

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 1.8mm incision.

MICS Instruments

The MICS Platform includes precision performance instruments from Storz® Ophthalmics for both C-MICS and B-MICS procedures. Find the complete range at www.storzeye.eu

MICS Viscoelastic

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



Tel: 66476078-80

Learn more about the MICS Platform and the benefits of 1.8mm surgery at www.micsplatform.com

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