

**Stellaris** Elite™  
Vision Enhancement System

CONFORMITY IS THE  
ANTAGONIST OF  
**INNOVATION**



**BAUSCH + LOMB**  
See better. Live better.

A true combined phacoemulsification and vitrectomy system, fully able to support both anterior and posterior surgeries in one platform.

**ANTERIOR SYSTEM**

**COMBINED ANTERIOR/  
POSTERIOR SYSTEM**



**DUAL LINEAR  
FOOT PEDAL**



SMALL,  
COMPACT FOOTPRINT  
OPTIMISED FOR YOUR OR



CATARACT



LASER



RETINA

**BAUSCH + LOMB**  
See better. Live better.



# OVERVIEW

CHOOSE YOUR OWN PATH

## Stellaris Elite™

### BE VERSATILE

A True Vacuum-Based,  
Combined System with  
Dual Linear Foot Pedal



## Anterior

### BE AMAZED

Adaptive Fluidics™

### BE POWERFUL

Attune® Energy

### BE CONFIDENT

CapsuleGuard® IA

## Posterior

### BE EFFICIENT

Bi-Blade®

### BE ENLIGHTENED

Advanced Illumination

### BE CURIOUS

Unique VR Accessories





BE VERSATILE

# A TRUE COMBINED SYSTEM

## WHY COMPROMISE WHEN YOU DON'T NEED TO?

Stellaris Elite™ is a true combined phacoemulsification and vitrectomy system, fully able to support both anterior and posterior surgeries in one platform.

Bausch + Lomb offers added value with a single capital purchase for both cataract and retina surgery capabilities.



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Procedural Choice

Vacuum Technology

Wireless Dual Linear Foot Pedal



## PROCEDURAL CHOICE

At Bausch + Lomb we know surgeon needs dictate innovation. That's why we work alongside surgeons to understand their needs and ensure we're delivering targeted and effective solutions.

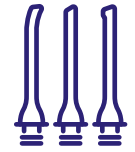
Stellaris Elite™ offers you the freedom to choose what works best for your surgery needs with one system that is compatible with our full range of phaco, retina and combined pack options to meet the evolving needs of surgeons today and in the future. It also offers you the seamless ability to incorporate future innovations and enhancements to your system.



Adaptive Fluidics™



Multiple incision sizes and phaco sleeves



Multiple needle designs



CapsuleGuard® IA



Single-port and Bi-Blade® cutters



Multiple vitrectomy gauge sizes



Customisable dual linear foot pedal



Full instruments and accessories portfolio



Portfolio of single use solutions

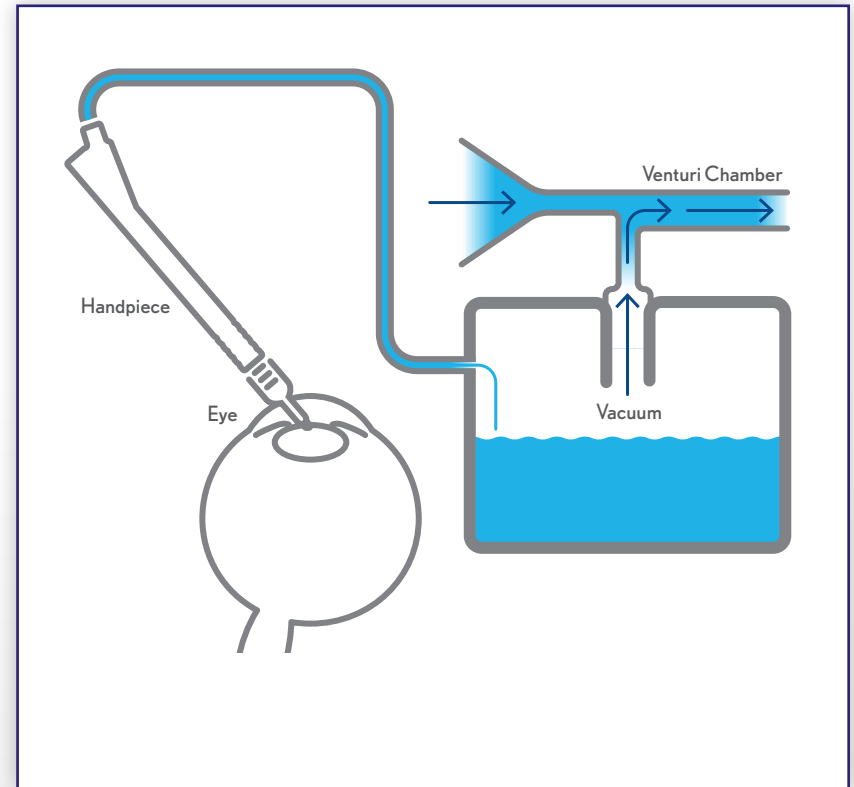


## VACUUM TECHNOLOGY

# DISCOVER A LEVEL OF PERFORMANCE THAT DELIVERS THE CONTROL YOU DEMAND

Stellaris Elite™:

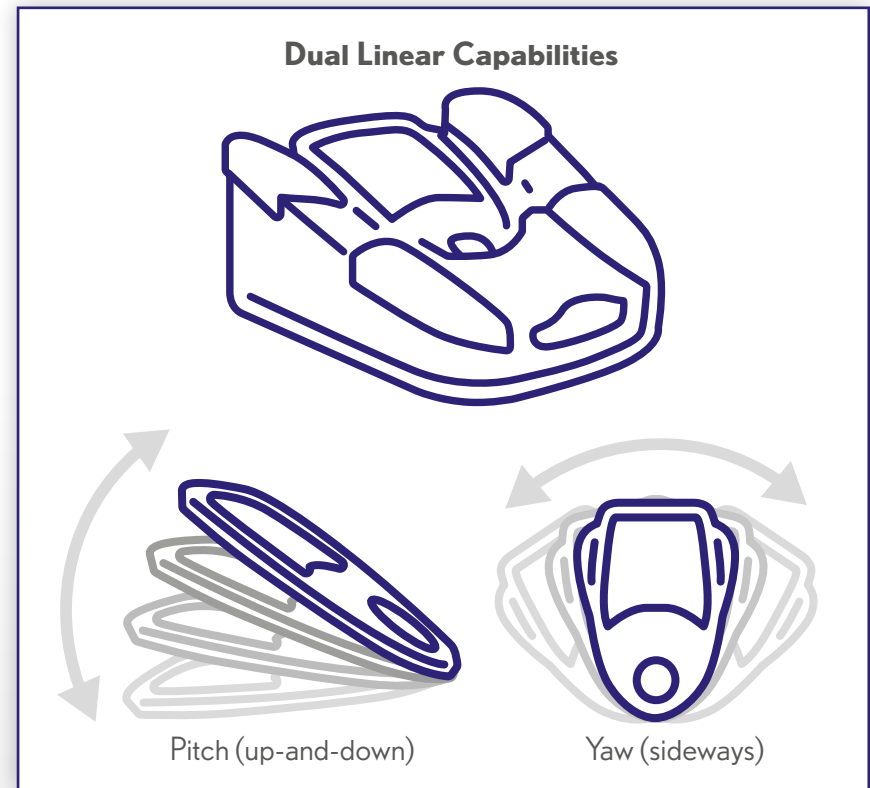
- **Offers direct vacuum:** vacuum is generated when air flow passes over the opening of a rigid drainage cassette<sup>1</sup>
- **Does not require occlusion:** the needle tip does not have to be occluded to generate vacuum<sup>1</sup>
- **Offers immediate control:** the surgeon has direct control of the vacuum pressure<sup>1</sup>



## WIRELESS DUAL LINEAR FOOT PEDAL OFFERS INDEPENDENT MANAGEMENT OF VACUUM AND ULTRASOUND

Use only the amount of vacuum and ultrasound needed for your surgery with:

- Control of both pitch and yaw planes
- Integrated movements simultaneously control irrigation, ultrasound, and aspiration
- Customisable vacuum response rate (back loaded, front loaded or linear)
- Irrigation on/ off activated on the yaw plane option available
- Integrated laser firing button eliminating the need for a second foot pedal in posterior surgeries



# ANTERIOR

BE AMAZED  
ADAPTIVE  
FLUIDICS™

Proactive approach to  
chamber stability

BE POWERFUL  
ATTUNE®  
ENERGY

Optimised fragmentation  
for efficient cutting

BE CONFIDENT  
CAPSULEGUARD®  
IA

Beneficial at all stages of  
irrigation and aspiration







BE AMAZED

# A PROACTIVE APPROACH TO CHAMBER STABILITY WITH **ADAPTIVE FLUIDICS™**

Chamber stability is a critical factor for successful lens extraction. The proactive approach of Adaptive Fluidics™ monitors and responds to the vacuum you command to let you focus on the surgery—not the system.



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Traditional Infusion Pressure Systems

Approaches to Chamber Stability Today

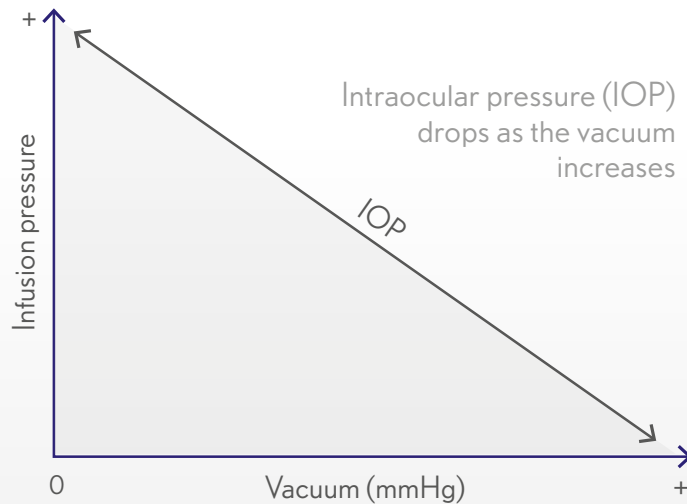
Reactive Approach

How **Adaptive Fluidics™** Works



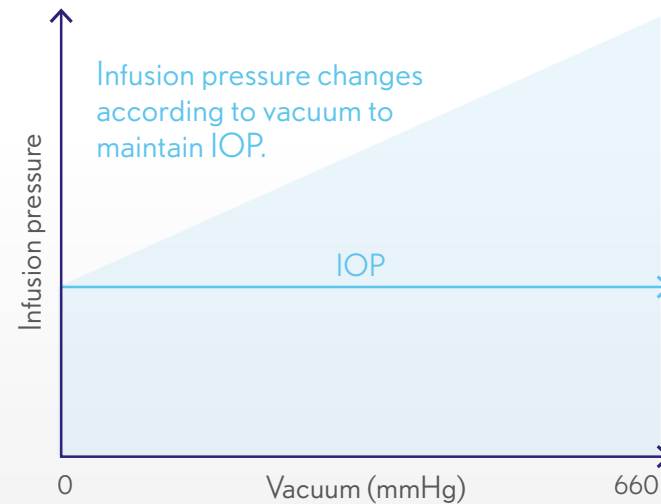
# ADAPTIVE FLUIDICS™ AND DYNAMIC INFUSION COMPENSATION

Traditional Gravity Infusion-Pressure System



Infusion pressure is fixed and drops as vacuum increases, which may create unstable conditions in the chamber.

Stellaris Elite™ with **Adaptive Fluidics™**



Proactively increases infusion pressure when more vacuum pressure is used to maintain consistent chamber stability.

*\*Graphs designed for illustrative purposes*



# TODAY DIFFERENT APPROACHES TO MANAGE CHAMBER STABILITY EXIST

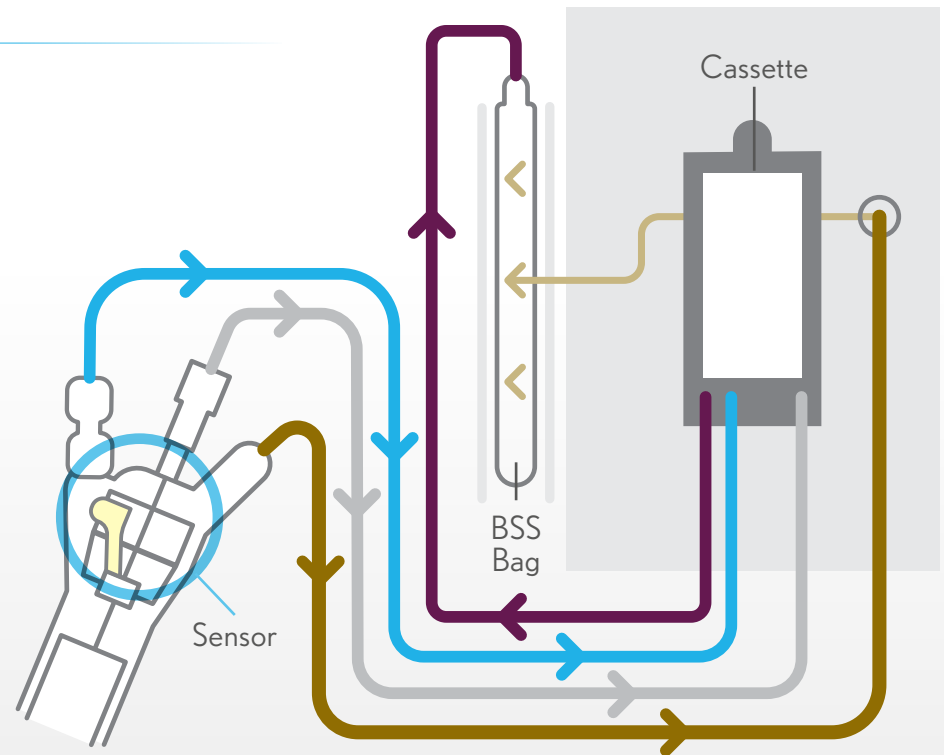
REACTIVE

PROACTIVE



# REACTIVE APPROACH: CENTURION

1. IOP drop is detected by the sensor in the handpiece<sup>2</sup>
2. The handpiece signals to system that adjustments are needed<sup>2</sup>
3. The BSS bag is squeezed<sup>2</sup>
4. IOP drop is compensated<sup>2</sup>





# ADAPTIVE FLUIDICS™

## PROACTIVELY MANAGES CHAMBER STABILITY

**Dynamic Infusion Compensation technology constantly MONITORS commanded vacuum and COMPENSATES with infusion pressure to maintain a stable chamber**

Once desired infusion pressure is set:



**MONITORS**  
**Adaptive Fluidics™**  
continuously tracks  
vacuum flow rate



**COMPENSATES**  
The system  
automatically adjusts  
infusion pressure

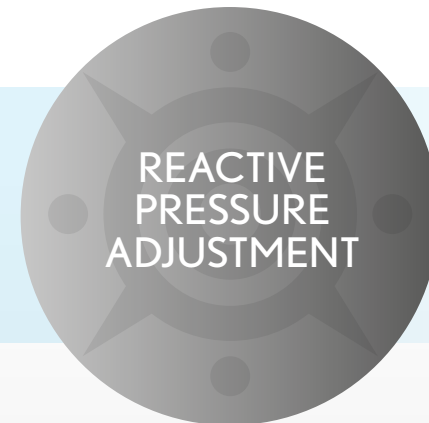


## ADAPTIVE FLUIDICS™

# TWO DIFFERENT APPROACHES TO CHAMBER STABILITY



Stellaris Elite™ PROACTIVELY monitors vacuum and automatically adjusts infusion pressure to compensate for changes using **Adaptive Fluidics™ technology**, to facilitate optimised chamber stability.



Other phaco systems, like Alcon, use technology that REACTS to conditions in the eye by adjusting the pressure to the BSS bag<sup>2</sup>

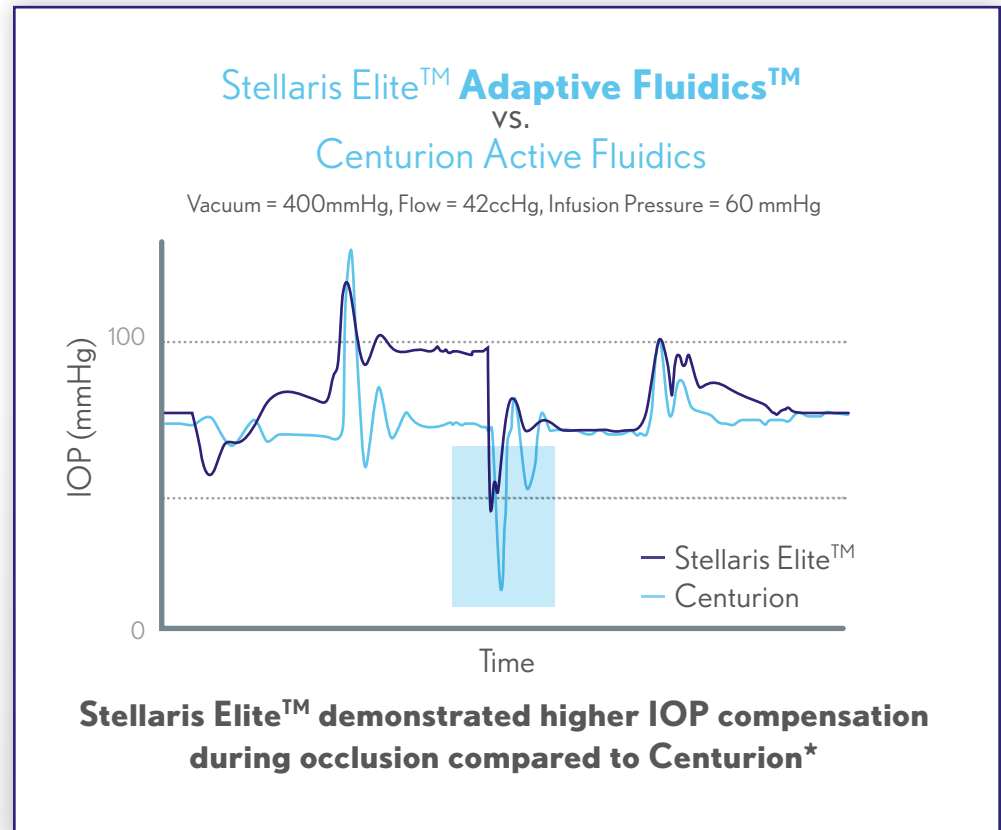


## ADAPTIVE FLUIDICS™

# ADVANTAGES: SEPARATING STELLARIS ELITE™ FROM THE REST

Adaptive Fluidics™ technology has been engineered to proactively:

- Dynamically adjust to support chamber stability<sup>3</sup>
- Facilitate reduced post-occlusion surge<sup>3</sup>
- Better control variation of pre- and post-occlusion surge to facilitate less stress on the capsule<sup>3</sup>



\* Bench study



BE POWERFUL  
EFFICIENT  
EMULSIFICATION WITH  
**ATTUNE® ENERGY**

Stellaris Elite™ offers an extensive range of phaco needle and sleeve sizes in both straight and angled configurations. In combination with Attune® Energy phacoemulsification management, surgeons can expect optimised cutting for all cataract grades.

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Cutting Efficiency

Cavitation

Frequency

Attune® Energy

Phaco Needles

Waveform™ Modulation



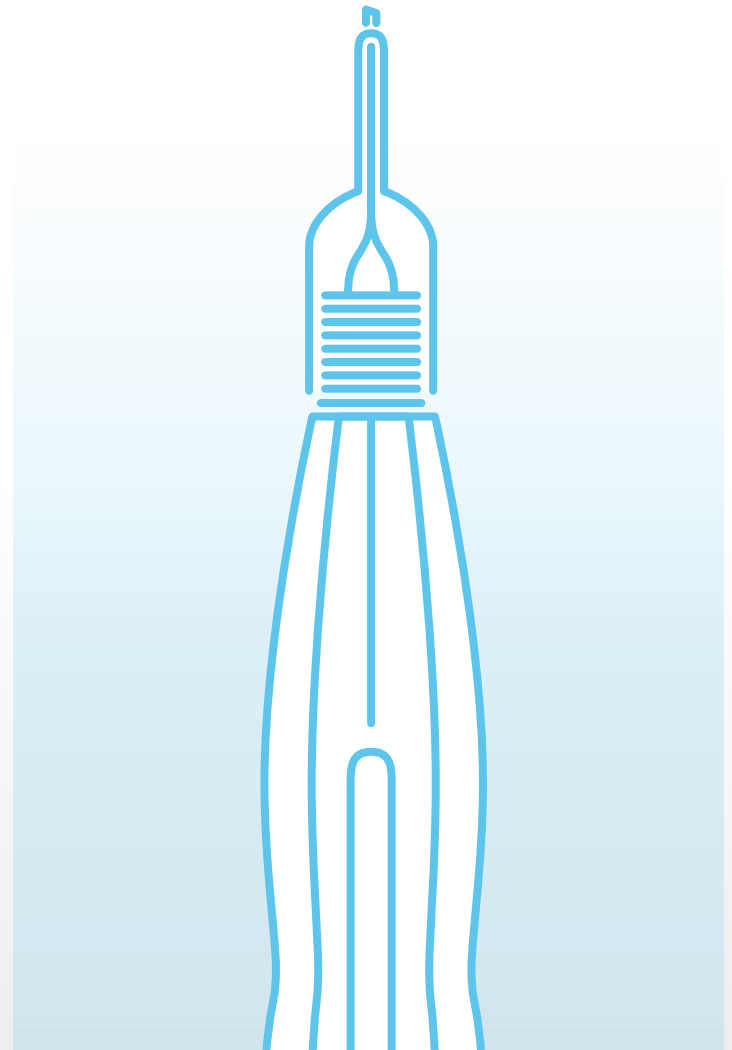


# EFFICIENT CUTTING

**Attune® Energy** phacoemulsification management has been designed with:

- A six-crystal 28.5 kHz frequency phaco handpiece
- A 142\* micron stroke length and longitudinal cutting action
- A unique handpiece design that balances mechanical cutting with acoustic cavitation for focused energy at the needle tip
- Continuous, pulsed, fixed pulse, multiburst and Waveform™ ultrasound setting options

*\*Dependent on amount of ultrasound power being used.*



# CAVITATION

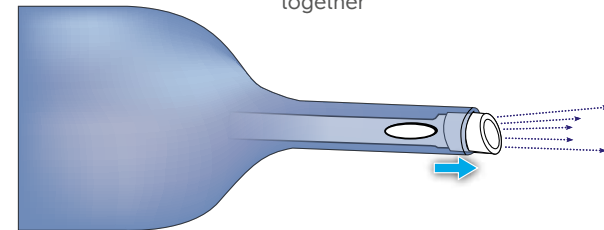
## 142 micron stroke length

- Acoustic cavitation is the result of the high-speed expansion, contraction, and subsequent implosion of microcavitation bubbles at the phaco tip<sup>1</sup>
- As the microcavitation bubbles implode, they release tremendous energy and shock waves directed towards the cataract<sup>1</sup>

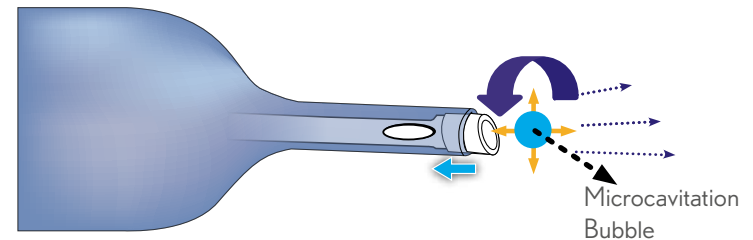
The longitudinal 142 micron stroke length of **Attune® Energy** is designed for optimised cavitation generation

## HOW CAVITATION WORKS

**Compression Cycle:** During the compression cycle, the phaco needle accelerates forward, exerting a positive pressure that pushes the molecules together



**Expansion Cycle:** During the expansion cycle, the phaco needle reverses direction and a microcavitation bubble is created by vacuum from the phaco needle backstroke<sup>1</sup>



*\*Diagram designed for illustration purposes*



# FREQUENCY

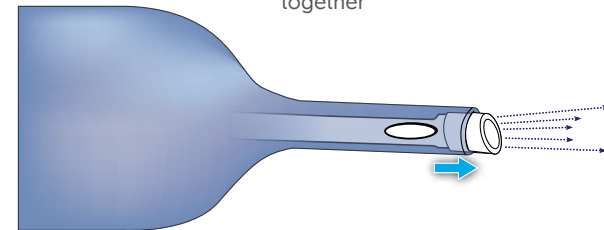
## 28.5 kHz frequency

- A lower frequency handpiece of 28.5 kHz is thought to better facilitate larger microcavitation bubble formation and is less likely to generate heat<sup>1</sup>
- The larger the microcavitation bubble, the greater the energy released when it implodes for more effective cutting power<sup>1</sup>

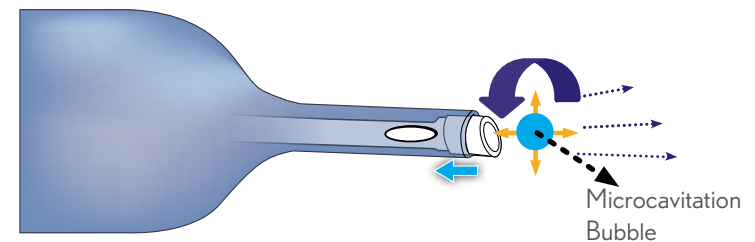
The **Attune® Energy** low frequency handpiece of 28.5 kHz is designed to better facilitate microcavitation bubble formation and be less likely to generate frictional heat compared with higher frequency handpieces<sup>1</sup> for efficient cataract emulsification

## HOW CAVITATION WORKS

**Compression Cycle:** During the compression cycle, the phaco needle accelerates forward, exerting a positive pressure that pushes the molecules together



**Expansion Cycle:** During the expansion cycle, the phaco needle reverses direction and a microcavitation bubble is created by vacuum from the phaco needle backstroke<sup>1</sup>



*\*Diagram designed for illustration purposes*



**STELLARIS ELITE™ WITH ATTUNE® ENERGY**

OFFERS AN EXTENSIVE RANGE  
OF PHACO NEEDLE OPTIONS  
FOR PROCEDURAL CHOICE



30°  
MICS™ 2.0  
Straight Needle



30°  
MICS™ 2.0  
Angled Needle



30°  
MICS™  
Straight Needle



30°  
MICS™  
Angled Needle



30°  
MicroFlow™ Plus  
Straight Needle



30°  
Straight Thin Tip  
20G Needle



30°  
Angled Thin Tip  
20G Needle

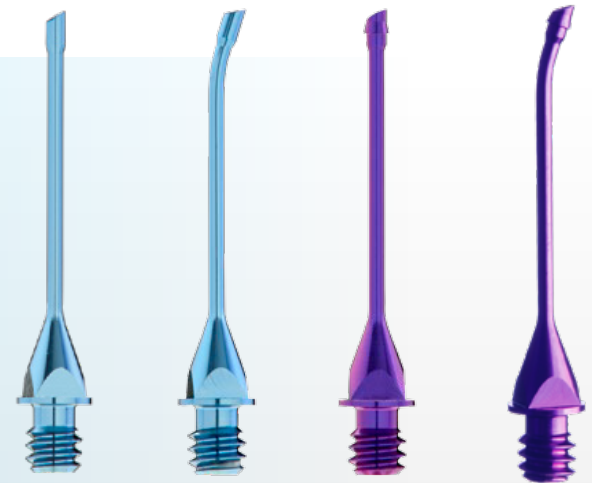
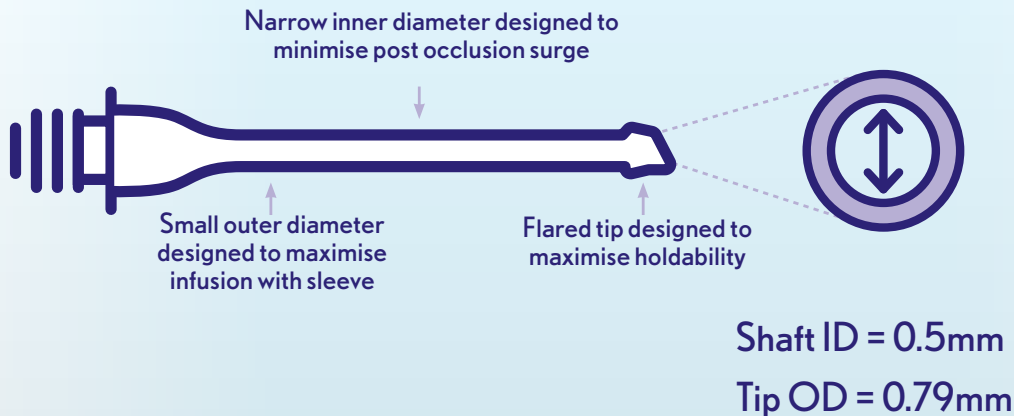




## MICS<sup>TM</sup> PHACO NEEDLES

# OPTIMISED FOR CUTTING EFFICIENCY

MICS<sup>TM</sup> phaco needles are designed to offer unique advantages:



## WAVEFORM™

# ULTRASOUND MODULATION CAPABILITY

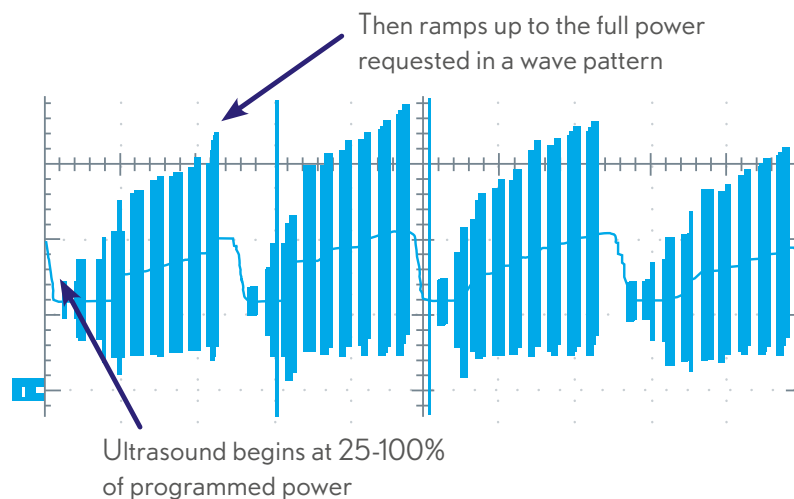
Unique to Stellaris Elite™, Waveform™ delivers ultrasound modulation while allowing surgeons to maintain maximum vacuum power

Ultrasound begins at 25-100% of peak power programmed and then ramps up to the full power requested in a wave pattern

Waveform™ is designed to:

- Help lens fragments slowly spin on the tip making them easier to emulsify
- Eliminate chatter
- Reduce the amount of energy used and temperature

## WAVEFORM™ MODULATION PATTERN



*\*Diagram designed for illustration purposes*





BE CONFIDENT

# CapsuleGuard<sup>®</sup> IA SILICONE IRRIGATION/ ASPIRATION HANDPIECES

The CapsuleGuard<sup>®</sup> IA handpiece is an all silicone IA tip handpiece designed to reduce the risk of posterior capsule rupture (PCR)<sup>4</sup>. The unique design is beneficial in all stages of IA, both before and after IOL implantation.



## TABLE OF CONTENTS

For All Phases of IA

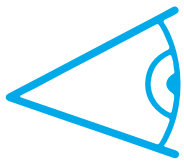
Full Silicone Sleeve Tip Design



# CapsuleGuard® IA

Silicone Irrigation/Aspiration Handpieces

## DESIGNED FOR USE IN **ALL** PHASES OF IA



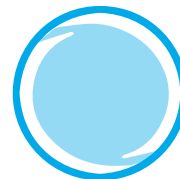
Designed  
for improved  
visualisation



Cortex removal



Capsule polishing



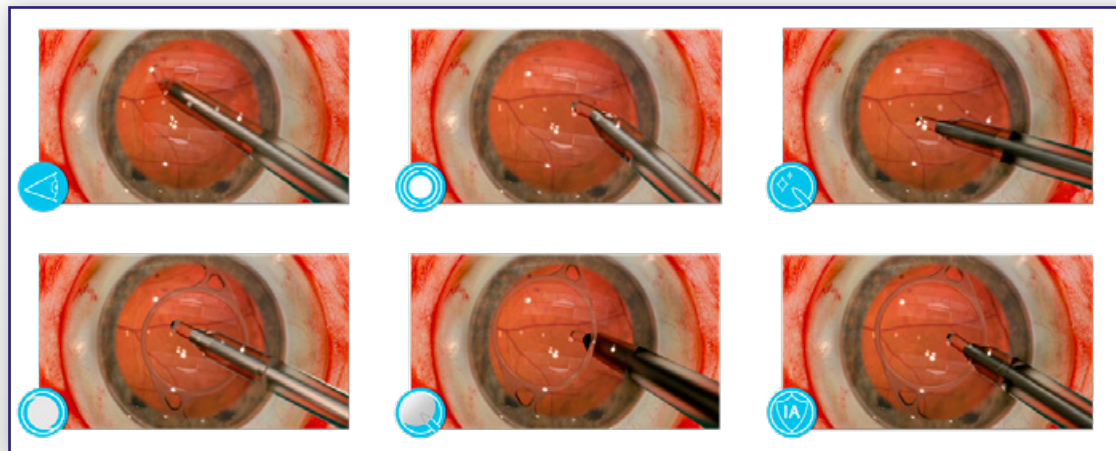
IOL manipulation



Viscoelastic removal



Data suggests it may  
reduce the risk of  
PCR compared with  
metal handpieces<sup>4</sup>





# CAPSULEGUARD<sup>®</sup> IA

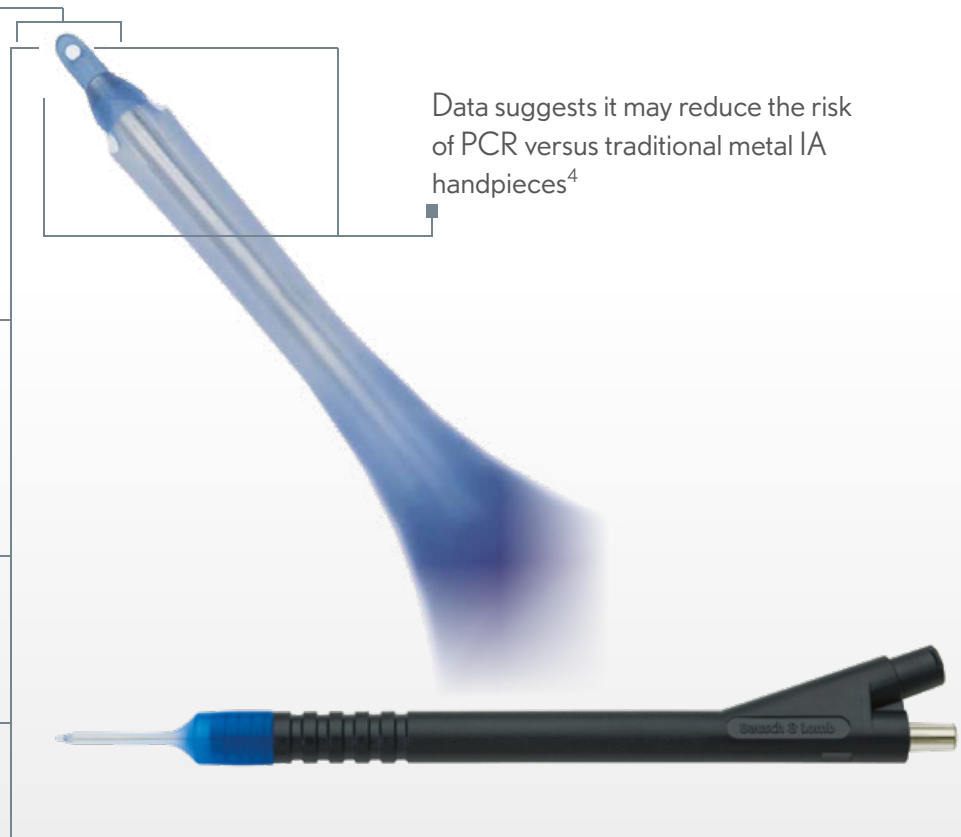
Soft, flexible tip design allows for ease of insertion and access to hard to reach areas including sub-incisional cortex

Flexible sleeve conforms to the incision to reduce fluid leakage and help with chamber stability

Enhanced visualisation of anterior chamber from semi-transparent sleeve design and reduction in gauge of the aspiration tube compared with traditional metal IA handpieces

One piece, single use, silicone tip design for consistency and convenience

Data suggests it may reduce the risk of PCR versus traditional metal IA handpieces<sup>4</sup>



# POSTERIOR

## BE EFFICIENT BI-BLADE®

Dual-port, high-speed cutting with consistent flow for stability and control

## BE ENLIGHTENED ADVANCED ILLUMINATION

A broad range of tools with innovative light fibre technology deliver advanced illumination

## BE CURIOUS UNIQUE VR ACCESSORIES

A wide range of surgical accessories and instruments





BE EFFICIENT

# BI-BLADE<sup>®</sup> DUAL-PORT CUTTERS

The innovative dual-port Bi-Blade<sup>®</sup> design not only cuts at twice the rate of single-port vitrectomy cutters, it also maintains consistent flow without port closure.

Complex maneuvers requiring meticulous control and predictable stability are always at your fingertips.

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Bi-Blade<sup>®</sup> Dual-Port Cutter

How Bi-Blade<sup>®</sup> Works

Efficiency & Stability

Standard to Complex Cases



CATARACT



LASER



RETINA

## BI-BLADE<sup>®</sup> DUAL-PORT EXPERIENCE

# THE CUTTING EDGE OF SURGICAL INNOVATION

**Bi-Blade<sup>®</sup>** vitrectomy cutters deliver open-port stability with **15,000 cpm\*** efficiency

- **Stability:** high cut speeds facilitate reduced retinal traction<sup>5</sup>, allowing surgeons to confidently shave near mobile retina, perform dissections, and remove intraocular tissues with control and confidence
- **Efficiency:** the unique dual-port design optimises efficiency by enabling cutting without port closure. As the port remains open, **Bi-Blade<sup>®</sup>** provides continuous aspiration while cutting, to provide a consistent flow rate



### BI-BLADE<sup>®</sup> VITRECTOMY CUTTERS

Available in 23, 25, and 27 gauges

*\*Effective cut rate*



CATARACT



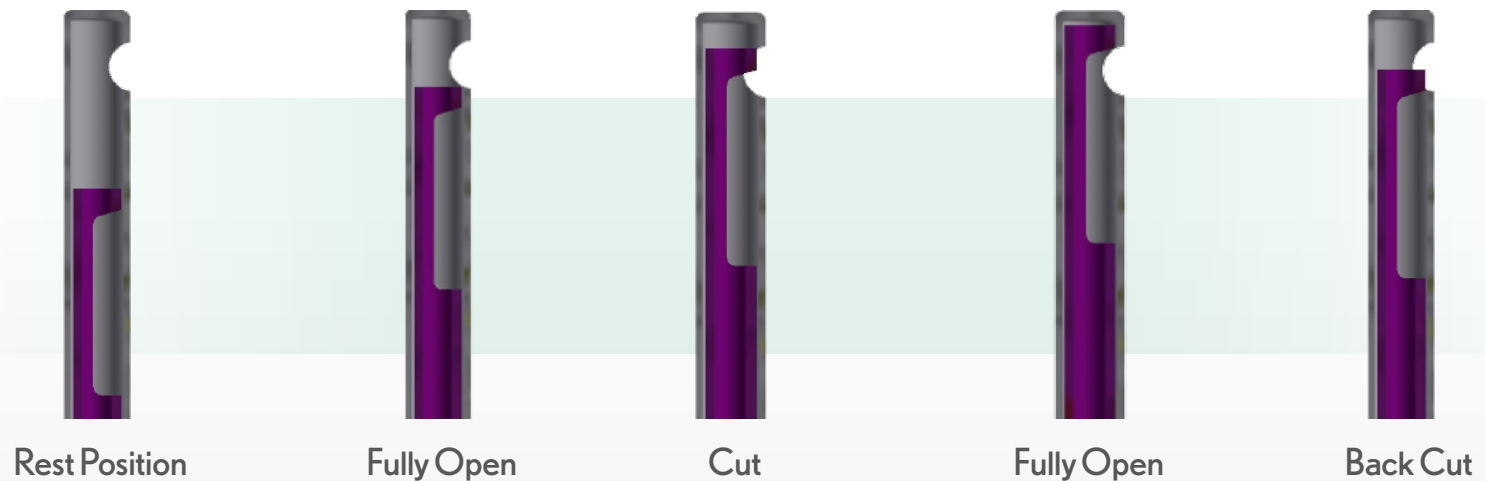
LASER



RETINA

BI-BLADE<sup>®</sup>

## DUAL-PORT DESIGN: HOW IT WORKS



- **Duty cycle** is the percentage of open port time for each complete cut cycle
- **Dual-port design** enables 100% duty cycle, for a stable environment that enables high flow rates and high cut rates

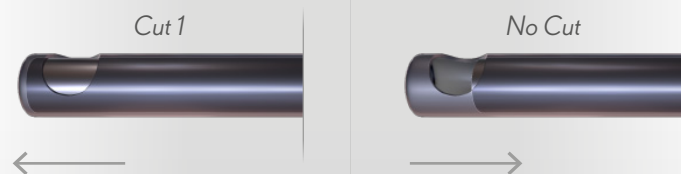
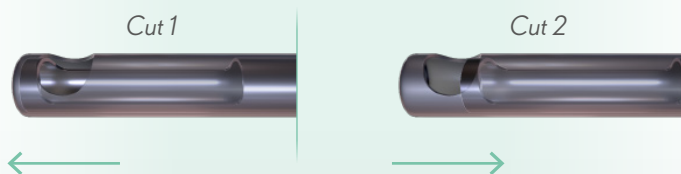


# BI-BLADE<sup>®</sup> vs SINGLE-PORT CUTTERS

The two-to-one advantage of Stellaris Elite<sup>™</sup>

Bi-Blade<sup>®</sup>

Single-Port



- Port openings in both outer and inner needle creating two cutting edges
- Bi-Blade<sup>®</sup>'s dual-edge blade cuts both forward and backwards, for two cuts per operating cycle

- Single-port cutters cut only once per cycle, in the forward position, with complete port closure



**BI-BLADE<sup>®</sup>**

# DESIGNED FOR EFFICIENCY AND STABILITY

Increased cut speed and dual-port design improves the efficiency  
of small-gauge cutters, facilitating faster procedures

**2x**

the cut rate of  
single-port cutters

**100%**

**duty cycle**  
for continuous  
aspiration

**2.7x**

**higher vitreous**  
flow rate in 23g\*

**2.0x**

**higher vitreous**  
flow rate in 25g\*

**Vitreous**  
**flow<sup>6</sup>**

increases with  
higher cut rate

\* Engineering study at 600 mmHg, and 7500 cpm, versus conventional cutters.



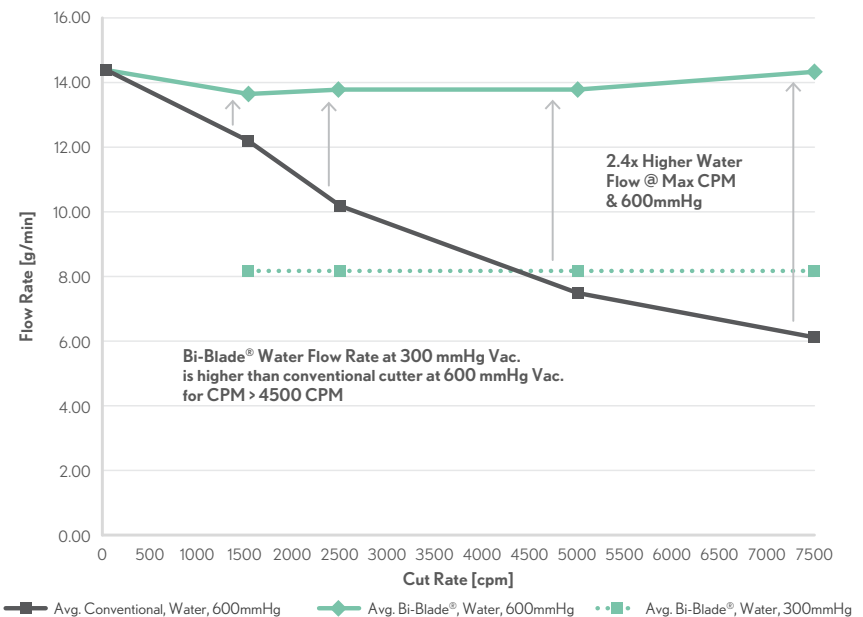


## BI-BLADE<sup>®</sup> IN LAB STUDIES

# WATER FLOW RATE COMPARISON: BI-BLADE<sup>®</sup> VS. CONVENTIONAL CUTTER

### Conventional vs. Bi-Blade<sup>®</sup> Water Flow Comparison, 25g

25g, 7500cpm, 600mmHg, pig eyes



**Bi-Blade<sup>®</sup> offers 240% faster flow than conventional vitrectomy cutters in BSS\* for greater efficiency<sup>6</sup>**

\*Engineering study: compared to traditional single-port cutters in BSS on systems in 7500 CPM mode.

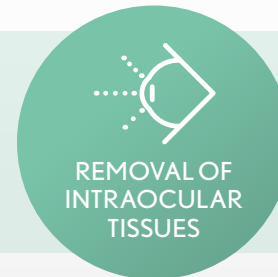
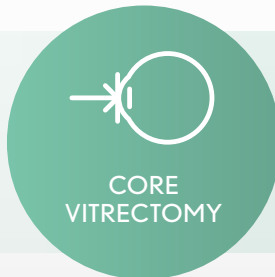


## FROM STANDARD TO COMPLEX CASES

# BI-BLADE® DELIVERS CONFIDENCE FOR VITRECTOMIES

**High-speed cutting with stable flow gives surgeons precise control**

The confident choice for complex cases and challenging surgical maneuvers

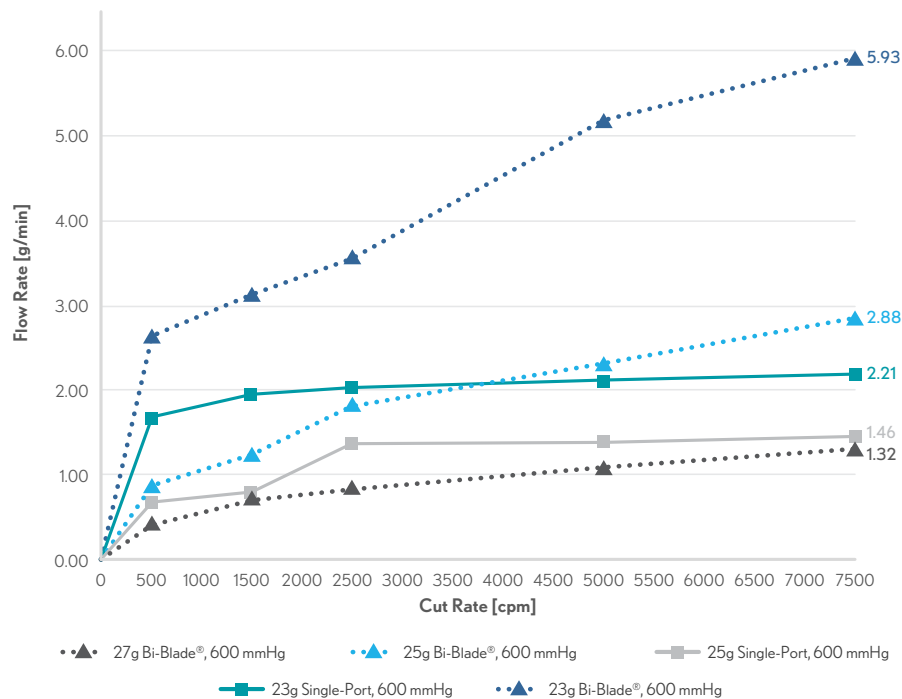


## CORE VITRECTOMY

# VITREOUS FLOW COMPARISON

### Conventional vs. **Bi-Blade®** Water Flow Comparison, 25g

7500 cpm, 600mmHg, vitreous pig eyes






**Bi-Blade®'s higher cut rate increases vitreous flow\* for greater efficiency during core vitrectomy<sup>6</sup>**

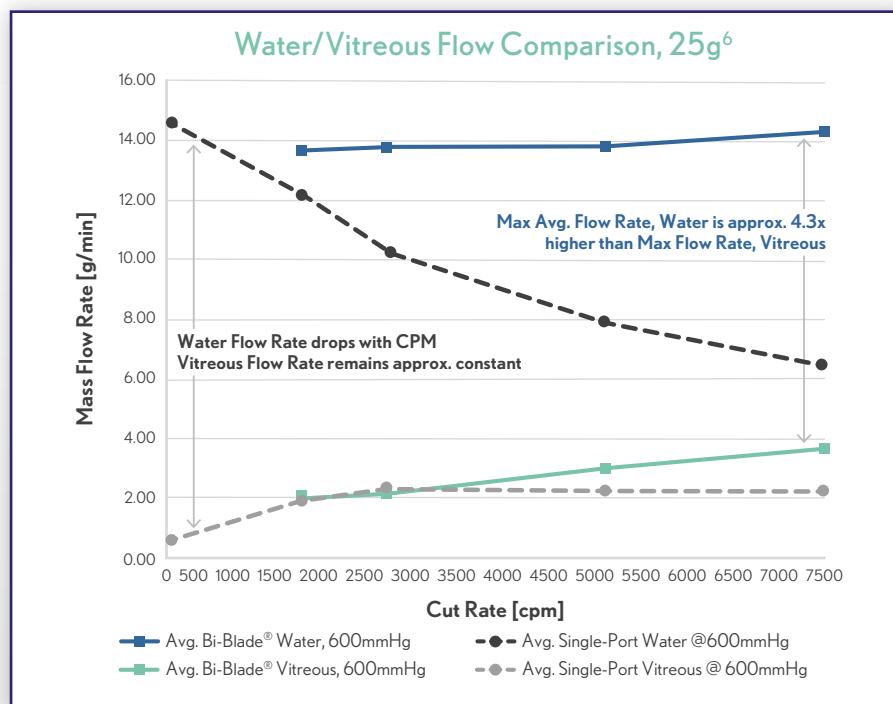
*\*Engineering study: compared to conventional single-port cutters.*



## CORE VITRECTOMY

# BI-BLADE® CUTTER COMPARISON OF WATER TO VITREOUS FLOW

	Bi-Blade®	Single-Port
 When cut rate increases (vitreous)	Vitreous flow increases	Vitreous flow plateaus
 When cut rate increases (water)	Water flow is stable	Water flow decreases
 Flow of vitreous/ water combo	Expected to increase with increasing cut rate	Expected to decrease with increasing cut rate



<sup>6</sup>Engineering study: compared to conventional single-port cutters.



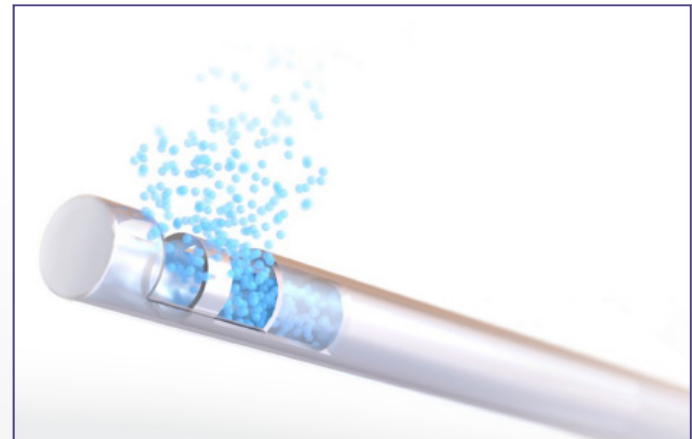
## VITREOUS SHAVING NEAR MOBILE RETINA DESIGNED FOR STABILITY AND MADE FOR CONFIDENCE

### **Bi-Blade® Technology:**

- Enhances flow stability and control due to the constant flow created by a 100% open duty cycle<sup>6</sup>
- High cut rate and consistent flow for reduced retinal traction while cutting<sup>5</sup>

### **Conventional Guillotine Vitrectors:**

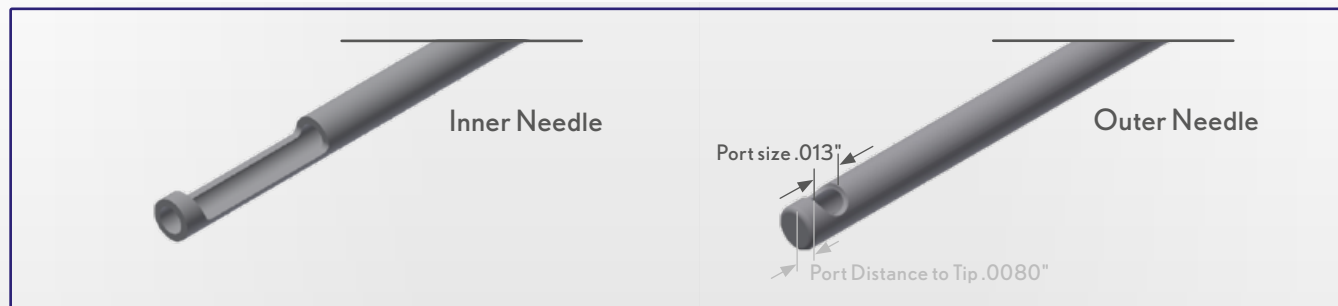
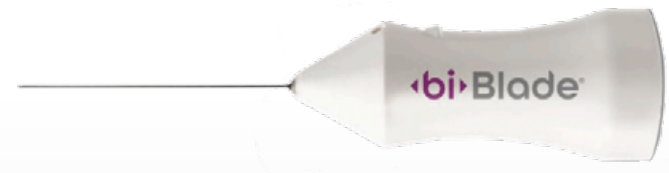
- Complete port closure can result in flow instability and retinal traction<sup>7</sup>



## REMOVAL OF INTRAOCULAR TISSUES & DISSECTIONS

# 27G BI-BLADE<sup>®</sup> VITRECTOMY CUTTER FOR EFFECTIVE AND EFFICIENT DISSECTIONS

- **Precision and control:** navigate tight surgical planes with 27g Bi-Blade<sup>®</sup>
- **Multi-purpose:** reduces the need for additional tools, such as scissors, for dissection
- **Advanced design:** sufficient stiffness to facilitate complex intraocular maneuvers





BE ENLIGHTENED  
**ADVANCED  
ILLUMINATION**

Stellaris Elite™ offers a dedicated combination of light source, fibre optics, and light filtering technologies.

Collectively, they enable advanced visualisation, differentiated viewing options, and exacting surgical control.



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Advanced Illumination

Chandeliers

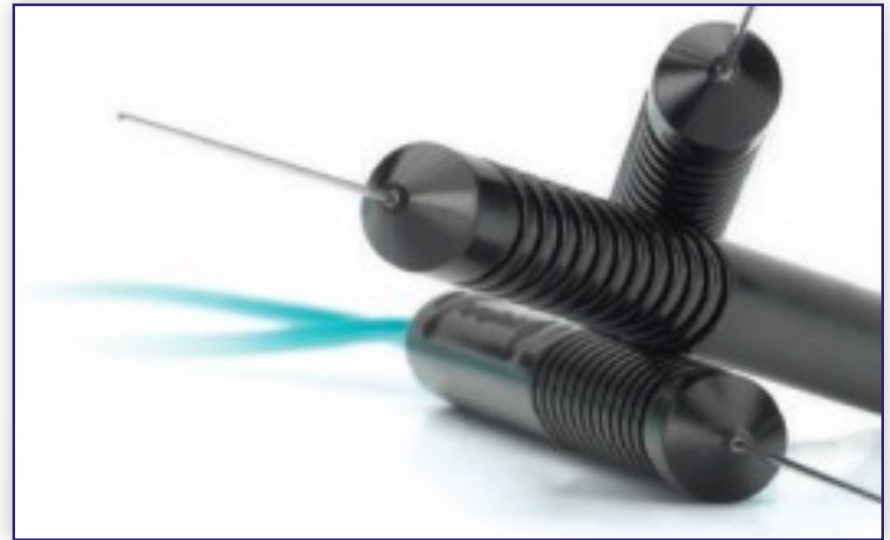
Differentiated Viewing



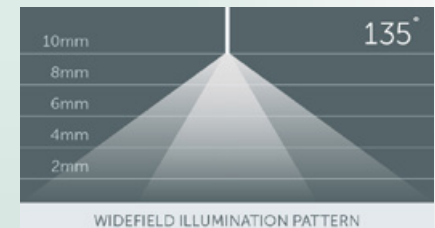
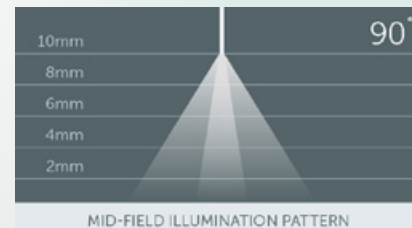


# ADVANCED ILLUMINATION

- Bright xenon light was designed specifically for small-gauge vitrectomy
- Supports fibre optic add-ons as small as 29g
- Numerous specialised illumination options:
  - Chandeliers and illuminated infusion chandeliers
  - Illuminated laser probes
  - Illuminated bipolar cautery
- Supports both mid-field and widefield light pipe illumination options in Stellaris Elite™ packs.



## ILLUMINATION PATTERNS

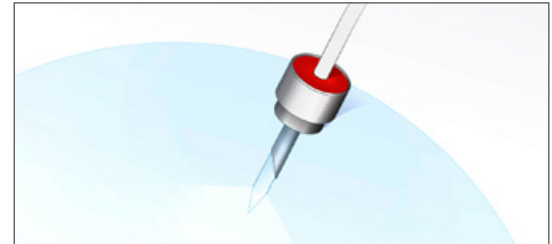


# CHANDELIERS

**Stellaris Elite™** is compatible with a portfolio of chandeliers that deliver optimised illumination and precise control based on procedure type, patient anatomy, and surgeon technique

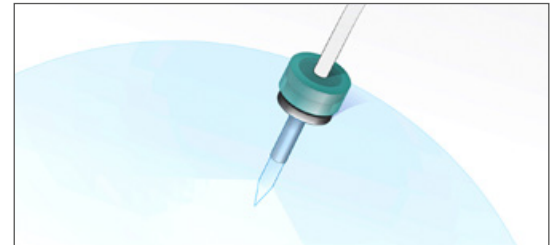
## Adjustable Depth Options

Precise control of the fibre depth enables ideal illumination based on procedure type



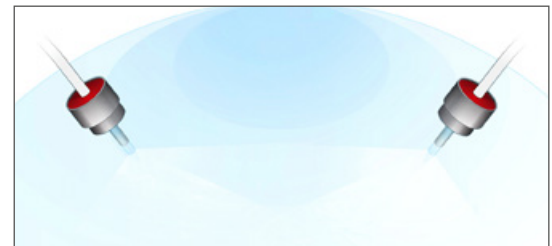
## Oshima Vivid

Low profile 27g design and precise control of the fibre enables customised illumination based on procedure type



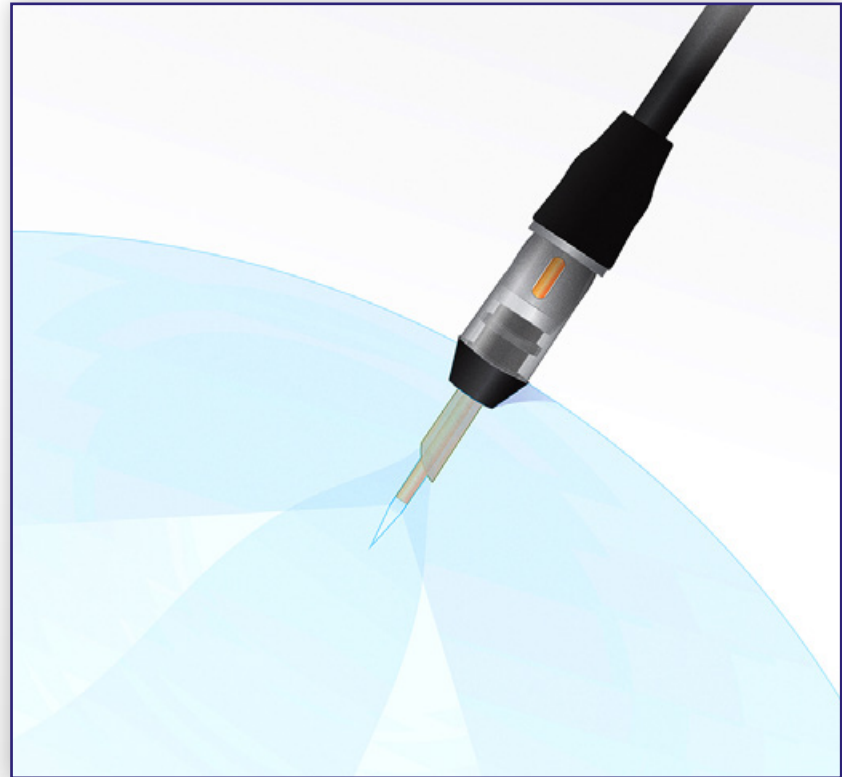
## Oshima Dual

Greatly reduces shadowing with two ultra low profile fibres



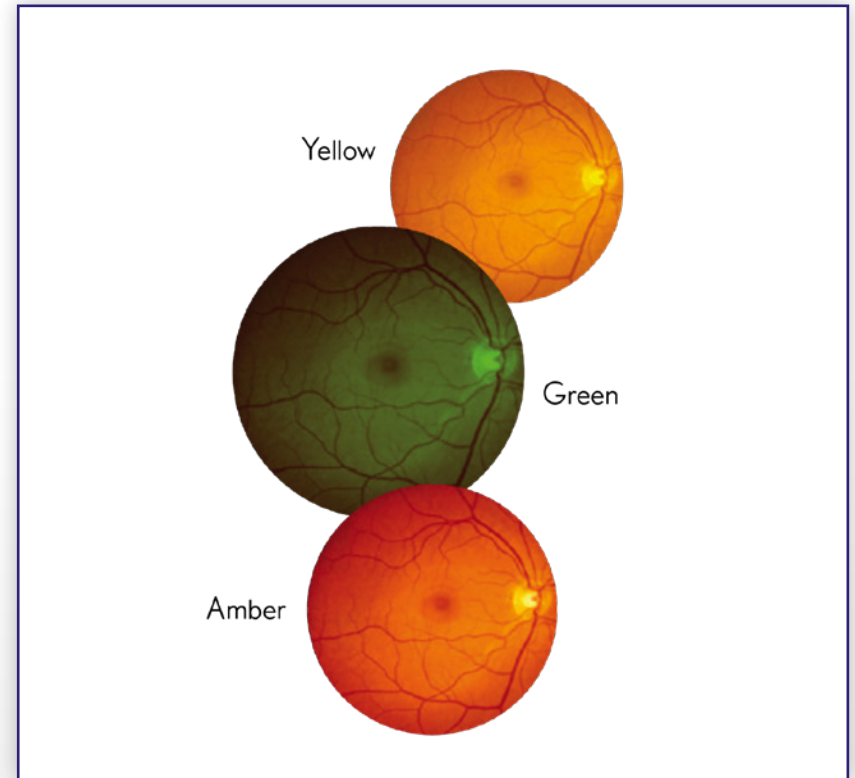
# ILLUMINATED INFUSION CHANDELIERS

- Designed to provide optimal chandelier illumination without creating a fourth sclerotomy in the eye during surgery
- Can be beneficial for all cases where chandelier illumination may be needed



# DIFFERENTIATED VIEWING

- Proprietary colour filters deliver distinct advantages over systems without filters:
  - Yellow
  - Green
  - Amber
- Filters may be used as an augmentation or an alternative to intraoperative dyes





BE CURIOUS  
**UNIQUE  
SURGICAL ACCESSORY  
SOLUTIONS**

Stellaris Elite™ offers a wide range of vitreoretinal accessories and instruments to meet unique surgical needs.

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Directional Laser Probes

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CATARACT



LASER



RETINA

## DIRECTIONAL AND ILLUMINATED DIRECTIONAL LASER PROBES EXPANDED ACCESS



- A comprehensive portfolio of directional laser probes enables advanced access and surgical efficiency:
  - Enters the eye in the straight position for ease of insertion
  - Laser shaft retracts so the laser fibre does not move towards the retina
  - Laser can fire when fibre is straight up to a 90 degrees curve
- Illuminated directional laser probes can fire the laser when the fibre is straight up to a 45 degrees curve and offers a mid-field illumination pattern:
  - Provides access to the far periphery
  - Combining illumination and laser in a single probe enables unassisted scleral depression



## UNIVERSAL VISCOUS FLUID CONTROL PACK

### UNIQUE SOLUTIONS

High Flow Silicone Oil Injection and Removal:

- High flow injection cannulas increase flow up to 209% for 23g and 359% for 25g<sup>\*8</sup>
- High flow extraction cannula seats over the hub of the instrument cannula



*\*Engineering study: compared to standard injection cannulas*





## INSTRUMENTS AND ACCESSORIES

### UNIQUE SOLUTIONS



**Diamond Dusted  
Membrane Scrapers (Tanos)**  
for initiating membrane peeling



**Pinnacle 360™**  
Instruments with  
unique tip designs



**Hubbard Visco Dissector**  
for delaminating large  
membranes from the retina



**0.75mm Soft  
Tip Cannulas**  
(overall 34.5mm)



**De Juan  
Subretinal Injection  
Cannula**



## DIRECT CONTACT VR LENSES UNIQUE SOLUTIONS



### Flat

VFD10

- Field of view: 36°
- Image magnification: 1.00x



### Bi-Concave

VBCD10

- Field of view: 25°
- Image magnification: 0.80x



### Magnifying

VMD10

- Field of view: 30°
- Image magnification: 1.50x



### Widefield

VWFD10

- Field of view: 48°
- Image magnification: 0.50x



### 30° Prism

V30PD10

- Field of view: 33° (offset 30°)
- Image magnification: 1.00x



### Flat, SSV

VFLATSSVD10

- Field of view: 30°
- Image magnification: 0.92x



### Bio Lenses

V20LCD  
V28LCD



## PERFLUOROCARBON LIQUIDS AND SILICONE OILS

### UNIQUE SOLUTIONS



DK-Line® 5ml  
DK-Line® 7ml



Okta-Line® 5ml



Oxane® 1300, 10ml Syringe  
Oxane® 5700, 10ml Syringe



Oxane® HD, 10ml Syringe



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Please read the User Manual and Instructions for Use (IFU) / Directions for Use (DFU) for important product use and safety information for Stellaris Elite™ and its associated accessories.  
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**DIFFERENTLY**  
CAN TAKE YOU

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Vision Enhancement System

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