



We love
control freaks
Virtuoso® Sales Aid





THE FUTURE IN FOCUS

Virtuoso® introduces a new level of control throughout novel fluidics, lower phaco energy, redefined vitreous cutting and aspiration, and seamless OR workflow.^{1,2,3,4,5,6,7,8,9,11,12}



Virtuoso®



**True Control Gives You
the Freedom to Perform**



Virtuoso®

Advanced Vision Solutions



Virtuoso DUAL®

Advanced Vision Solutions



Virtuoso®



Virtuoso®



Equality™

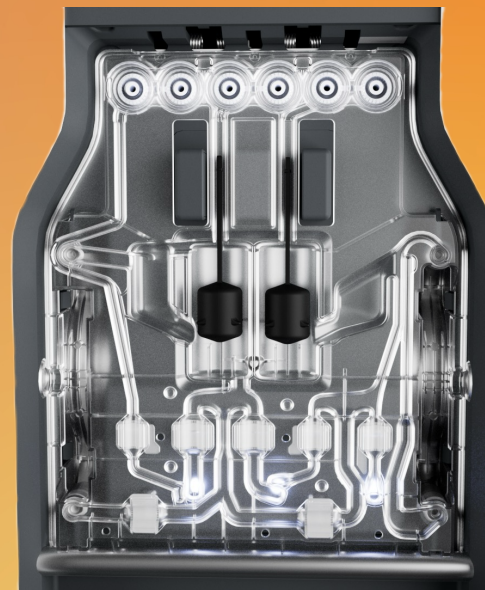
Resolute™

Velvet™

EasyFit™

Consistently Consistent from start to finish

Equality™ Fluidics Control actively maintains the same target IOP throughout the entire cataract procedure, from phaco steps to I/A steps, uniquely fusing the control of a flow pump with the efficiency of a pressure pump.^{1,2,3}



 **Equality™**
Fluidics Control

Mechanism of Action





Virtuoso®



Virtuoso®



Equality™

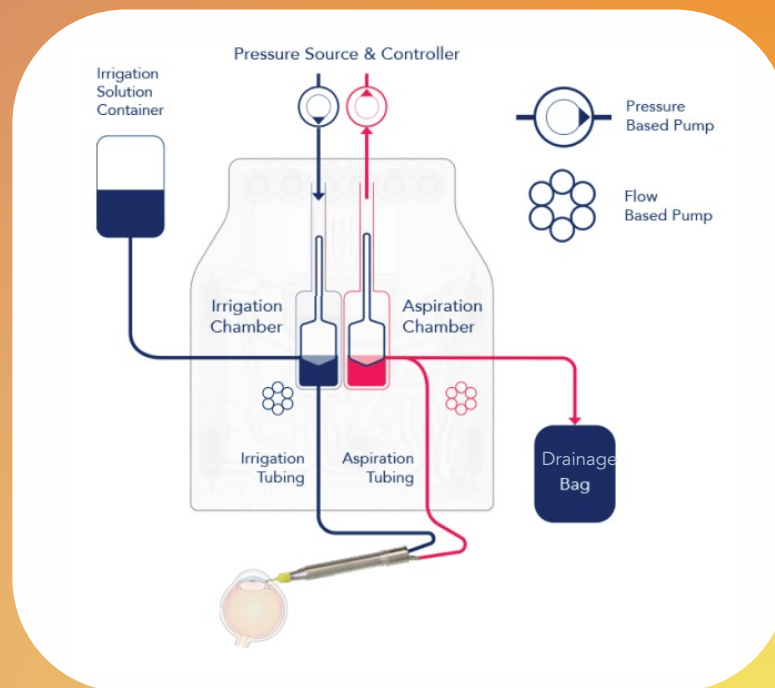
Resolute™

Velvet™

EasyFit™

Fluidics equalizer

Equality™ Fluidics Control actively maintains target IOP by immediately adjusting actual infusion flow according to varying aspiration demand; the Irrigation Compensation further supports the surgeon to offset any incision-related condition, preventing anterior chamber instability from wound leakage or wound compression.^{1,3}





Virtuoso®



Virtuoso®



Equality™

Resolute™

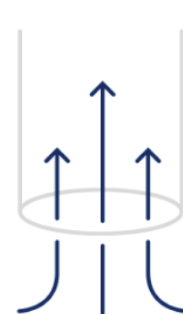
Velvet™

EasyFit™

Customized aspiration

Equality™ Fluidics Control offers different aspiration modalities aimed at creating a customized surgical procedure based on preferred response, personal techniques and case scenario.^{1,4}

- **Vacuum control with uncapped flow** for surgeons preferring direct vacuum build.
- **Flow control with vacuum limit** for surgeons looking for full vacuum build only upon occlusion.
- **Vacuum control with flow limit** as a blended option offering enhanced control when the capsular bag is more exposed, like epi-nucleus, cortical removal and OVD removal.



Vacuum
Control



Flow
Control



Vacuum
Control with
Flow Limit



Equality™
Fluidics Control



Virtuoso®



Virtuoso®



Equality™

Resolute™

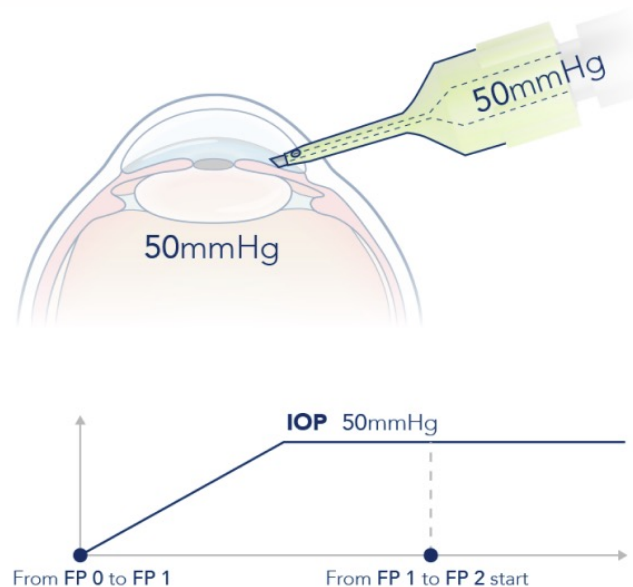
Velvet™

EasyFit™

Pressure equalizer from the start

While other systems can experience IOP fluctuations at the start of the aspiration due to the pressure gradient between IOP in the eye and ambient pressure in the aspiration tubing, Equality™ Fluidics Control equalizes the pressure in the aspiration tubing with the desired IOP setpoint programmed on the Graphic User Interface immediately upon activation of aspiration.^{1,2}

 **Equality™**
Fluidics Control





Virtuoso®



Virtuoso®



Equality™

Resolute™

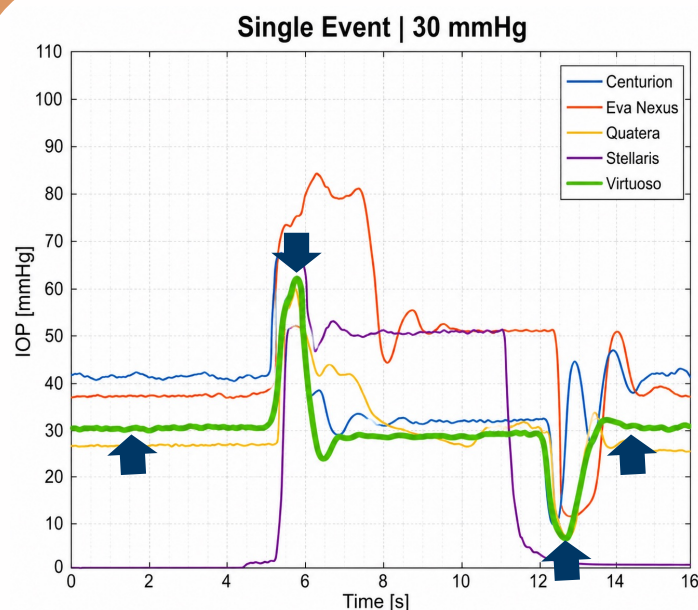
Velvet™

EasyFit™

Anterior chamber stability during phacoemulsification: comparing different phacoemulsification systems - Rossi T, et al.

Single Event | 30 mmHg (IOP vs. Time)

Virtuoso® is among the best-performing systems at the occlusion-break moment, showing one of the smallest pressure dips and the quickest time to IOP stability.



 **Equality™**
Fluidics Control



Virtuoso®

< Virtuoso®



Equality™

Resolute™

Velvet™

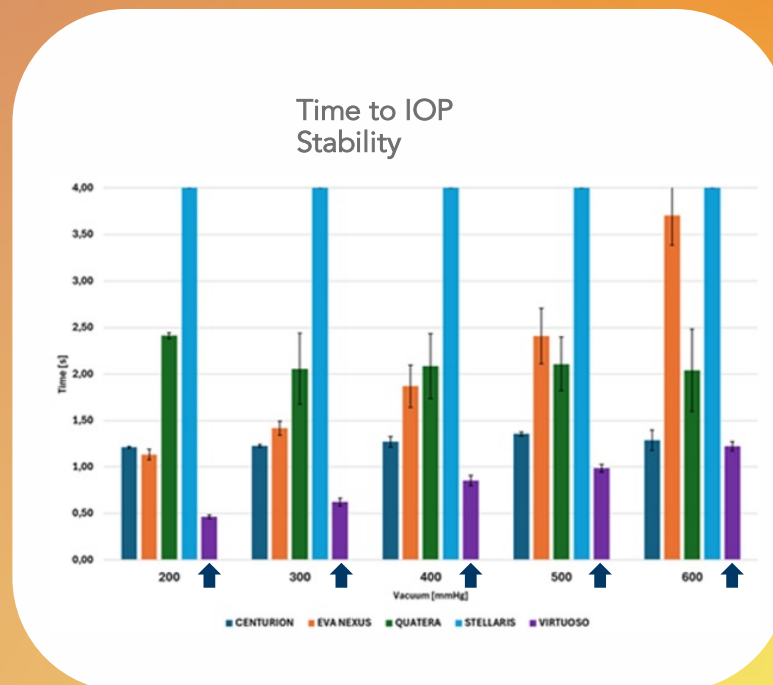
EasyFit™

Anterior chamber stability during phacoemulsification: comparing different phacoemulsification systems - Rossi T, et al.

Time to IOP Stability (Time vs. Vacuum, 30 mmHg preset)

Virtuoso® recovers stable pressure fastest of all five systems, at every vacuum level tested.

Per the study: Virtuoso® "took a significantly shorter time to reach and maintain IOP... at all vacuum levels and test IOP values."





Equality™

Resolute™

Velvet™

EasyFit™



Equality™ Fluidics Control

Equality™ Fluidics Control actively maintains the same target IOP throughout all cataract procedure, from phaco steps to I/A steps, uniquely fusing the control of a flow pump with the efficiency of a pressure pump





Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™

We put our energy into energy

Discover an energy delivery system that intelligently senses cataract resistance and dynamically compensates to maintain the target energy level – empowering you to operate at a lower energy set point.^{3,4,5,6}



Resolute™

Load-Sensing Energy Optimizer

Mechanism of Action





Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™

Intelligent lens sensing

Maintaining target energy through sensing and compensating for cataract resistance.^{3,4,5,6}

 **Resolute™**
Load-Sensing Energy Optimizer





Virtuoso®



Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™

Lower energy

By ensuring this consistency between programmed and delivered energy, Resolute™ allows a lower energy setpoint throughout all phaco steps, differently than other systems that require a higher energy setpoint, especially for harder cataracts.^{3,4,5,6}



Resolute™

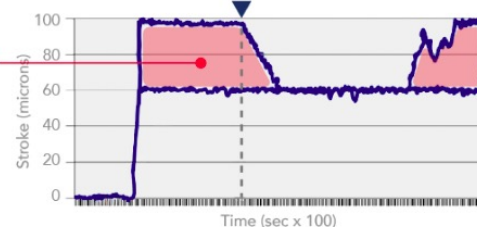
Load-Sensing Energy Optimizer

Tip Stroke Pattern (Microns) ▼ Contact between phaco tip and cataract material

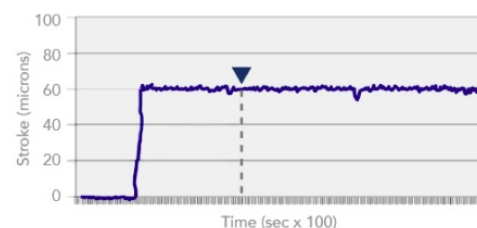
Competitor

Wasted Energy

Phaco without Resolute™



Resolute™





Equality™

Resolute™

Velvet™

EasyFit™



 Resolute™
Load-Sensing Energy Optimizer

Resolute™ Load-Sensing Energy Optimizer intelligently senses cataract resistance and dynamically compensates to maintain the target energy level, engineered to help surgeons operate at a lower energy set point.





Equality™

Resolute™

Velvet™

EasyFit™

We've laboured over anterior vitrectomy, so you don't have to

Unique dual blade probe for anterior vitrectomy redefining safety and efficiency by minimizing the risk of retinal tractions, optimizing cutting and aspiration with a wide range of probes to suit every surgeon's needs.^{3,7,8,9,11,12}

 **Velvet™**
Vitrectomy Probe

Mechanism of Action 





Virtuoso®



Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™

Uninterrupted flow for safer vitrectomy

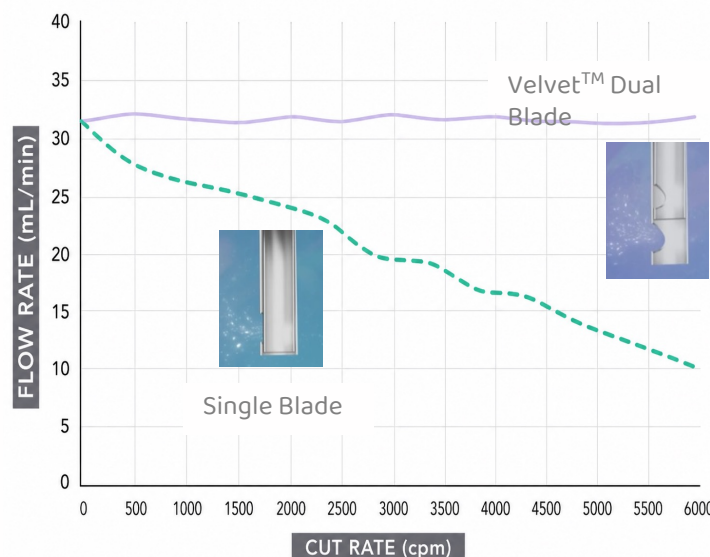
Velvet™ is a leading Dual Blade probe for Anterior Vitrectomy, delivering continuous aspiration flow at any cutting frequency.^{3,7,8,9}

This uninterrupted flow minimizes the potential of iatrogenic retinal break, reducing complications and enhancing safety for precise anterior vitrectomy procedures.



Velvet™

Vitrectomy Probe





Virtuoso®



Virtuoso®



Equality™

Resolute™

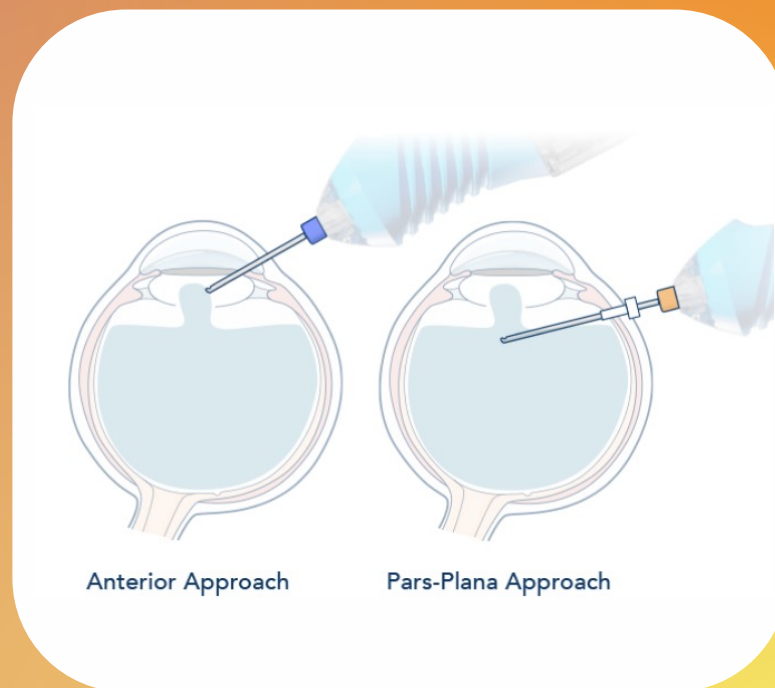
Velvet™

EasyFit™

Tailored precision for every technique

Velvet™ offers a unique assortment of probes for anterior vitrectomy, designed for every surgical technique, accessible via a side port or pars plana.^{1,3,10}

A full portfolio matching each surgeon's preferences accelerates the learning curve and enables seamless adoption for enhanced precision and efficiency.



Velvet™

Vitrectomy Probe



Equality™

Resolute™

Velvet™

EasyFit™

**BVI**

**Velvet™**
Vitrectomy Probe

Velvet™ elevates safety and efficiency across both anterior and posterior procedures. Synchronous cutting and aspiration help minimize retinal traction in anterior cases, while enhanced access to target tissue and increased instrument stiffness support



The image shows a Virtuoso surgical console with a large monitor. The monitor displays the Virtuoso software interface, which includes the BVI logo, the text 'Virtuoso Advanced Vision Solutions', and a menu with options: 'Surgeon: Dr. BVI', 'Procedure: Anterior Procedure', and 'Start procedure'. There are also icons for 'Equality', 'Resolute', 'Velvet', and 'EasyFit'.





Virtuoso®

< Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™

Our success is making yours easier to achieve

The optimized Virtuoso® footprint via HW integration and the enhanced procedure setup bring preparation and intra-op control of cataract surgery to the next level.^{1,3}

 **EasyFit™**
All At Once Setup

Mechanism of Action 





Virtuoso®



Virtuoso®



Equality™

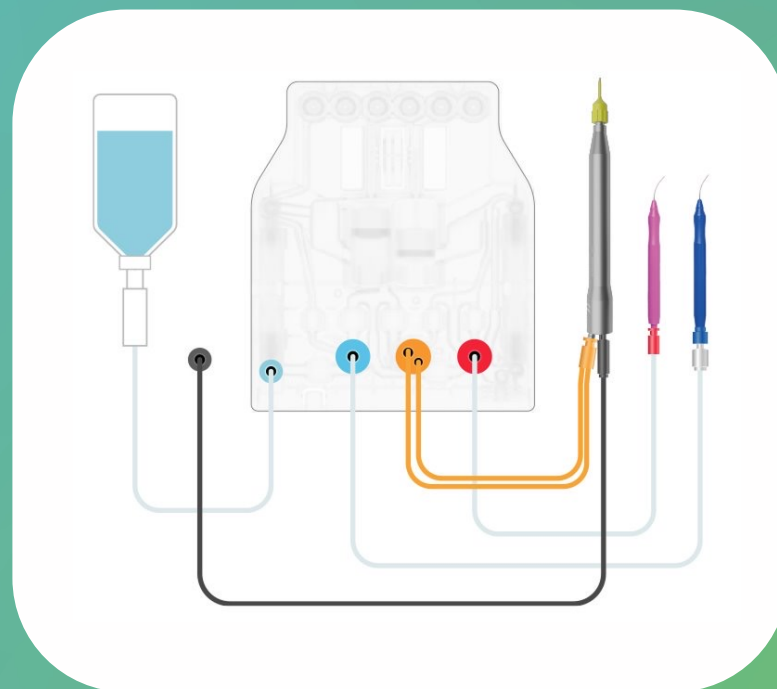
Resolute™

Velvet™

EasyFit™

Simultaneous setup

Thanks to the simultaneous preparation and priming of both Phaco handpiece and I/A handpiece before the start of the cataract surgery, EasyFit™ All At Once Setup delivers uncompromised procedural safety to the surgeon and a flawless OR workflow to the entire OR staff when switching from Phaco steps to I/A steps.^{1,3}



 **EasyFit™**
All At Once Setup



Virtuoso®



Virtuoso®



Equality™

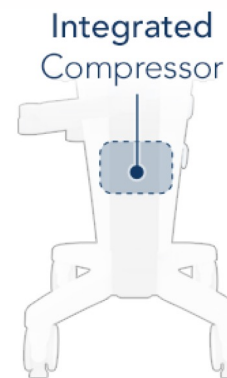
Resolute™

Velvet™

EasyFit™

Enhanced footprint and ergonomics

A streamlined, compact hardware integration optimizes OR footprint and maximizes space efficiency.^{1,3}



EasyFit™

All At Once Setup



Virtuoso®

Virtuoso®



Equality™

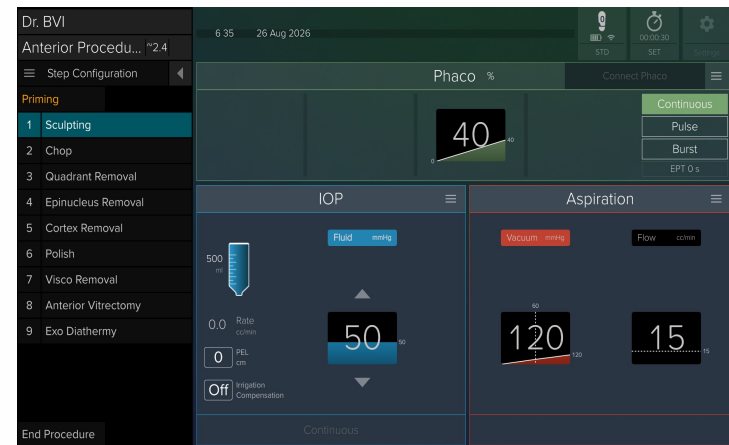
Resolute™

Velvet™

EasyFit™

Intuitive guided setup and intra-op adjustments

Virtuoso® Graphic User Interface provides intuitive guided setup for seamless intra-op adjustments.¹



EasyFit™
All At Once Setup



Virtuoso DUAL



Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™



EasyFit™ All At Once Setup

EasyFit™ All At Once Setup brings a new level of preparation and intraoperative control in cataract surgery, enabling simultaneous setup of both Phaco and I/A handpieces for greater efficiency from start to finish.





Virtuoso®

< Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™



Equality™ Fluidics Control

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Virtuoso®



Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™



Resolute™

Load-Sensing Energy Optimizer

Resolute™ Load-Sensing Energy Optimizer intelligently senses cataract resistance and dynamically compensates to maintain the target energy level, engineered to help surgeons operate at a lower energy set point.





Virtuoso®

< Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™



Velvet™ Vitreotomy Probe

Velvet™ elevates safety and efficiency across both anterior and posterior procedures. Synchronous cutting and aspiration help minimize retinal traction in anterior cases, while enhanced access to target tissue and increased instrument stiffness support





Virtuoso®

< Virtuoso®



Equality™

Resolute™

Velvet™

EasyFit™



EasyFit™ All At Once Setup

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References

1. Virtuoso® Operator's Manual (IFU). BVI Medical.
2. Rossi T, et al. Anterior chamber stability during phacoemulsification: comparing different phacoemulsification systems.
3. R&D data on file. BVI Medical.
4. Rossi T, et al. Testing a Novel Device for Accurate Ultrasound Delivery During Crystalline Lens Phacoemulsification Surgery. Transl Vis Sci Technol, 2020.
5. Ibarz-Barberá M, et al. Surgical Efficiency Comparison Between Two Phacoemulsification Systems. Clin Ophthalmol, 2024.
6. Garitsis P, et al. Phaco Tip Elongation Consistency Under Load: A Study. ESCRS, poster PO323.
7. Rossi T, et al. Fluid dynamics of vitrectomy probes. Retina, 2014.
8. Rossi T, et al. Introducing new vitreous cutter blade shapes: a fluid dynamics study. Retina, 2014.
9. Rossi T, et al. A new vitreous cutter blade engineered for constant flow vitrectomy. Retina, 2014.
10. Velvet™ Vitrectomy Probe Instructions for Use (IFU). BVI Medical.
11. Steel D, et al. Vibration, rigidity and cutting efficiency under load of narrow gauge vitrectomy probes. Euretina, 2025.
12. Li X, et al. Performance of a new dual action high speed vitrectomy system. Euretina, 2025.
13. Rossi T, et al. Comparing the Efficiency of Valved Trocar Cannulas for Pars Plana Vitrectomy. Bioengineering, 2025.

Contact Information:

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THE FUTURE IN FOCUS

At BVI we care about the Planet

This is why we decided save paper and
help the Environment by providing
digital versions of our printed material.

GO
DIGITAL



GO
GREEN!