Go in with Confidence

Choose the game-changing performance of ALCON® MIVS for every challenge.

Alcon
a Novartis company
Essential Components of the CONSTELLATION® Vision System

The ALCON® MIVS (Micro-Incision Vitrectomy Surgery) product suite provides unparalleled versatility, stability and control to handle most surgical challenges with ease:

- Faster visual recovery and reduced discomfort¹, ⁵, ⁶
- Improved stiffness, flow and versatility²
- Linear incisions and optimized wound closure with the EDGEPLUS® blade³
- True IOP control via new valved cannulas⁴
- A complete micro-incision portfolio for every step of the procedure

Why I Choose Small Gauge…

“Small-gauge technology is the most important advancement in vitreoretinal surgery in 20 years. Improvements in the probe design reduce pulsatile traction on the retina without fluidic compromise. I use 25+ for all my cases, including the most complex. For the patient, MIVS surgery means faster healing, reduced discomfort⁶ and expedited visual recovery."¹⁴

— Steve Charles, MD*  
Memphis, TN

*Steve Charles, MD, is a paid consultant for Alcon. Please refer to the back cover for important safety information about these products.
Reduced Discomfort, Faster Recovery

The micro-incision advantage of the ALCON® MIVS platform is also highly beneficial to your patients, with enhanced postoperative comfort and faster visual recovery.\(^1\) Compared to a typical 20-gauge procedure, a smaller incision size can have a big impact:

- More beneficial for your patients because of reduced discomfort\(^6\)
- Helps patients heal faster and more comfortably because of small-gauge incisions\(^5,6\)
- Allows for reduced corneal astigmatism, less inflammation and less disruption to the conjunctiva\(^7\)

Leaking sclerotomy may lead to postoperative hypotony.
Vitreous traction has been known to create retinal tears and retinal detachments.
High Performance ULTRAVIT® Probes

Precision when and where you need it most at speeds up to 7500 cpm – that’s the ULTRAVIT® promise. With the fastest cutting speeds available and proven fluidic efficiency, the innovative ULTRAVIT® probes are the primary component of any MIVS procedure. Available in 23, 25+® and 27+® gauges, they can significantly improve your surgical capabilities:

• Reduces iatrogenic tears and post-op complications8
• Dual pneumatic probe delivers efficient cutting and fluidics up to 7500 cpm and beyond
• Higher cut speeds create smaller bites and reduced resistance to flow, which result in less pulsatile traction on the retina9, 10
• Allows surgeons to work closer to the retina with confidence
• Features improved stiffness, flow and versatility
• Micro-incision tools provide better access within the eye for complex cases

Traditional spring-driven probes have duty cycle limitations at high cut speeds, causing flow limitations.

With the dual pneumatic ULTRAVIT® High Speed Vitrectomy Probe, duty cycle variables are independent of cut rate.

ULTRAVIT® 7500 cpm duty cycle offers a greater range of control11

*Comparison of 5000 cpm to 7500 duty cycle with an ULTRAVIT® 25+® probe.
Improved Wound Construction with the EDGEPLUS® Blade

With cutting-edge design and ergonomic ease-of-use for today’s vitreoretinal surgeons, the EDGEPLUS® trocar/cannula blades are the perfect complement for micro-incision performance:

• Creates flat, linear incisions for optimized wound closure
• Chamfered hub design allows for ease of instrument access
• Sharp solid trocar blade allows cannulas to be inserted in one simple step
• Thin-wall metal cannula is designed to improve rigidity and reduce instrument friction
• Low-profile cannulas and plugs are designed to minimize interference

Enhanced EDGEPLUS® Valved Trocar Cannula System

The EDGEPLUS® Valved Trocar Cannula System eliminates the need for plugs, and helps reduce instrument exchanges:

• Provides a closed system for true IOP control for any type of case
• After insertion, the cannula detaches easily from trocar without the use of a secondary instrument
• Low friction valves are designed for smooth instrument exchanges

“IOP stability with the CONSTELLATION® Vision System, matched with the valved cannulas, may reduce perioperative pressure changes that might affect outcomes.”

— Carl Claes, MD
Antwerp, Belgium

*Carl Claes, MD, is a paid consultant for Alcon.
Please refer to the back cover for important safety information about these products.
A Complete ALCON® MIVS Portfolio

No MIVS surgical procedure is complete without ancillary accessories. Alcon provides a robust line of products to support 23G, 25+® and 27+® surgeries:

- **Illuminated Flex-Curved Laser Probe**
- **Chandelier Lighting System**

**PUREPOINT® laser probes** offer the ultimate level of functionality and control.

**GRIESHABER® DSP single-use instrumentation** provides a compliant, sterile instrument for every procedure.

**GRIESHABER® REVOLUTION™ DSP Reusable Handle with GRIESHABER® Advanced DSP Tip**

**Fine Tissue**
- ILM forceps
- Asymmetrical forceps
- End-grasping forceps

**Heavy Tissue**
- Curved scissors
- Vertical scissors
- Serrated forceps
- MAXGrip™ forceps
- Straight scissors*

**ALCON® endoilluminators** allow for improved versatility and visualization during surgery.

**Chandelier Lighting System**

**PUREPOINT® laser probes** offer the ultimate level of functionality and control.

*27+® series only. Please refer to the back cover for important safety information about these products.
IMPORTANT SAFETY INFORMATION

MIVS

CAUTION: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

INDICATIONS FOR USE: The CONSTELLATION® Vision System is an ophthalmic microsurgical system that is indicated for both anterior segment (i.e., phacoemulsification and removal of cataracts) and posterior segment (i.e., vitreoretinal) ophthalmic surgery.

The ULTRASTREAM™ Vitrectomy Probe is indicated for vitreous cutting and aspiration, membrane cutting and aspiration, dissection of tissue and lens removal. The valved entry system is indicated for scleral incision, canulae for posterior instrument access and venting of valved cannulae. The infusion cannula is indicated for posterior segment infusion of liquid or gas.

WARNINGS AND PRECAUTIONS:

• The infusion cannula is contraindicated for use of oil infusion.
• Attach only Alcon supplied products to console and cassette luer fittings. Improper usage or assembly could result in a potentially hazardous condition for the patient. Mismatch of surgical components and use of settings not specifically adjusted for a particular combination of surgical components may affect system performance and create a patient hazard. Do not connect surgical components to the patient’s intravenous connections.
• Each surgical equipment/component combination may require specific surgical setting adjustments. Ensure that appropriate system settings are used with each product combination. Prior to initial use, contact your Alcon sales representative for in-service information.
• Care should be taken when inserting sharp instruments through the valve of the Valved Trocar Cannula. Cutting instruments such as a vitreous cutter should not be actuated during insertion or removal to avoid cutting the valve membrane. Use the Valved Cannula Vent to vent fluids or gases as needed during Injection of viscous oils or heavy liquids.
• Visually confirm that adequate air and liquid infusion flow occurs prior to attachment of infusion cannula to the eye.
• Ensure proper placement of trocar cannulas to prevent sub-retinal infusion.
• Visually confirm that the ACCURUS® entry system’s air and liquid infusion flow occurs prior to attachment of infusion cannula to the eye.
• Minimize the light intensity and duration of exposure to the retina to reduce the risk of retinal photic injury.

ATTENTION: Please refer to the CONSTELLATION® Vision System Operators Manual for a complete listing of indications, warnings and precautions.

CONSTELLATION® VISION SYSTEM

INDICATIONS FOR USE: The CONSTELLATION® Vision System is an ophthalmic microsurgical system that is indicated for both anterior segment (i.e., phacoemulsification and removal of cataracts) and posterior segment (i.e., vitreoretinal) ophthalmic surgery.

The PUREPOINT® Laser is indicated for use in photoacogulation of both anterior and posterior segments of the eye including:
• Retinal photoacoagulation, panretinal photoacoagulation and intravitreal endophotocoagulation of vascular and structural abnormalities of the retina and choroid including: proliferative and non-proliferative retinopathy (including diabetic), choroidal neovascularization secondary to the related macular degenerations; retinal tears and detachments; macular edema, retinopathy of prematurity, choroidal neovascularization; leaking microaneurysms.
• Iridotomy/iridectomy for treatment of chronic/open angle glaucoma, acute angle closure glaucoma and refractory glaucoma.
• Trabeculectomy for treatment of chronic/open angle glaucoma and refractory glaucoma.
• And other laser treatments including: internal sclerotomy; lattice degeneration; central and branch retinal vein occlusion; sarcoidosis; vascular and pigment skin lesions.

The FlexTip® laser probe is intended to be used with ALCON® 532nm laser systems.

CONTRAINDICATIONS:

• Patients with a condition that prevents visualization of target tissue (cloudy cornea, or extreme haze of the aqueous humor of the anterior chamber of vitreous humor) are poor candidates for LIO delivered laser treatments.
• The infusion cannula is contraindicated for use of oil infusion.

COMPICATIONS: Corneal burns, inflammation, loss of best-corrected visual acuity, loss of visual field and transient elevations in intraocular pressure can occur as a result of ophthalmic laser treatment. Unintentional retinal burns can occur if excessive treatment beam power or duration is used.

WARNINGS AND PRECAUTIONS:

• The disposables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of disposables and handpieces other than those manufactured by Alcon may affect system performance and create potential hazards.
• Attach only Alcon supplied consumables to console and cassette luer fittings. Do not connect consumables to the patient’s intravenous connections.
• Mismatch of consumable components and use of settings not specifically adjusted for a particular combination of consumable components may create a patient hazard.
• Vitreous traction has been known to create retinal tears and retinal detachments.

• The closed loop system of the CONSTELLATION® Vision System that adjusts IOP cannot replace the standard of care in judging IOP intraoperatively, if the surgeon believes that the IOP is not responding to the system settings and is dangerously high or low, this may represent a system failure. Note: To ensure proper IOP Compensation calibration, place infusion tubing and infusion cannula on a sterile draped tray at mid-cassette level during the priming cycle.
• Leaking sclerotomy may lead to post operative hypotony.
• Pork scattered radiation is of low intensity and is not harmful when viewed through a protective filter. All personnel in the treatment room must wear protective eyewear, OD 4 or above at 532nm, when the system is in Standby/Ready mode as well as during treatment.
• The doctor protection filter is an OD greater than 4 at 532nm.

ATTENTION: Please refer to the CONSTELLATION® Vision System Operators Manual for a complete listing of indications, warnings, and precautions.

GRIESHABER® DSP INSTRUMENTATION

CAUTION: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

INDICATIONS FOR USE: GRIESHABER® DSP instruments are a line of single-use vitreoretinal micro-instruments which are used in ophthalmic surgery for cases either in the anterior or the posterior segment. The GRIESHABER® Advanced Backflush Handles DSP are a family of instruments for fluid and gas handling in vitreoretinal surgery.

WARNINGS AND PRECAUTIONS:

• Laser systems other than GRIESHABER® DSP instruments include foreign particle introduction to the eye reduced cutting or grasping performance; path leaks or obstruction resulting in reduced fluidics performance.
• Work correct tip attachment, function and tip actuation before placing it into the eye for surgery.
• For light fiber instruments: Minimize light intensity and duration of exposure to the retina to reduce risk of retinal photic injury. The light fiber instruments are designed for use with an ALCON® illumination source.
• Good clinical practice dictates the testing for adequate irrigation and aspiration flow prior to entering the eye. If stream of fluid is weak or absent, good fluidics response will be jeopardized.
• Use appropriate pressure supply to ensure a stable IOP.
• If unwanted tissue gets engaged to the aspiration port, it should be released by interrupting aspiration before moving the instrument.

ATTENTION: Please refer to the product labeling for a complete listing of indications, warnings, and precautions.

ILLUMINATION

CAUTION: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

ATTENTION: This document is not intended to substitute for the necessity of reading and understanding the light source Operator’s Manual.

INDICATIONS AND USAGE: Fiber Optic Instruments with ENGAUGE® Radio Frequency Identification Device (RFID) for use with the CONSTELLATION® System. These instruments can be used on the ACCURUS® System or ACCURUS® high brightness illumination (ABI)* using the RFID Adapter Model Number 808571440.

WARNINGS AND PRECAUTIONS:

• Minimize the light intensity and duration of exposure to the retina to reduce risk of retinal photic injury.
• Avoid operation of a fiber in air on consoles capable of illumination levels and settings higher than 10 lumens. This may result in fiber probe deformation and/or high surface temperatures that may cause patient injury.

ATTENTION: Reference the Directions for Use labeling for a complete listing of indications, warnings, precautions, complications and adverse events.

VITREORETINAL LASER PROBE


CAUTION: Federal (USA) law restricts this device to sale by, or on the order of, a physician.

WARNINGS/PRECAUTIONS:

• Do not use if package is damaged.
• Minimize the illuminator’s light intensity.

*Trademarks are property of their respective owners.
To see how the ALCON® MIVS portfolio of tools can help improve your vitrectomy performance, visit AlconRetina.com