ATTENTION: Use of handpieces during intraocular procedures in the absence of endOTM IOP monitors may lead to the absence of proper IOP measurement.

It is important to maintain surgical environment, it is recommended that a backup IOILniTM injector be made available in the event the Alcon® injector fails to perform as expected.

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 ULTRAVIT® Vitrectomy Probe is indicated for vitreous cutting and aspiration, membrane cutting and removal, posterior vitreous detachment, and peripheral retinal surgery. The infusion cannula is contraindicated for use of oil infusion.

The GRIEBHABER® DSP instruments are a line of single-use centrifugal microinstruments which are used for ophthalmic surgery, in cases either in the anterior or the posterior segment.

ATTENTION: Any use of the DSP instruments must be at the discretion of the surgeon and in accordance with the Ophthalmic Systems Operator’s Manual.

ADVERSE EVENTS/COMPLICATIONS

- Potential risk from use or reusing GRIEBHABER® DSP instruments include foreign particle introduction to the eye, reduced cutting or grapping performance, path leaks or obstruction resulting in reduced fluidics performance.

- Verify 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 OD of 4 at 532nm.

- The system electronics must be properly shielded to prevent electromagnetic interference.

REFERENCES:


Vitreoretinal surgery has changed forever

Experience the CONSTELLATION® Vision System

Featuring some of the most advanced technologies ever developed for vitreoretinal surgery, the CONSTELLATION® Vision System has raised the bar in surgical efficiency, speed and control. Not just an evolution, but a quantum leap forward, the CONSTELLATION® Vision System puts game-changing surgical capabilities and techniques within reach. What was once only imaginable is now possible:

- The ULTRAVIT® High-Speed probe provides the benefit of faster cutting and smaller vitreous bites without fluidic compromise.¹
- Trust in integrated and stable IOP compensation²³
- Helps to enhance patient outcomes and achieve faster visual recovery with ALCON® MIVS platforms⁴
- Increase efficiency during cataract removal with OZil® Torsional Handpiece⁵⁶
- Improve your OR set up time by 36% with V-LOCITY® Efficiency Components⁷

An unprecedented level of performance and control has arrived.⁸

Please refer to the back cover for important product information about these products.

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 CONSTELLATION® Vision System allows for completely new approaches and techniques in vitreoretinal surgery. I am convinced that this machine has made me a better and more efficient surgeon.”

– Pravin Dugel, MD

²³Pravin Dugel, MD is a paid consultant for Alcon.
Rewriting the rules of vitreoretinal surgery

Surgeon-Controlled Duty Cycle

The high-speed ULTRAVIT® probe with variable duty cycle is unique to the CONSTELLATION® Vision System, allowing surgeons to experience true versatility and control every time. By controlling flow independent of vacuum and at any cut rate, surgeons can do more than ever before:

• Features proprietary ALCON® ULTRAVIT® dual pneumatic drive technology
• Ensures precision and confidence for the most delicate procedures
• Optimizes cutting and aspiration control
• Features multiple duty cycle options: core (biased-open), 50/50 and shave (biased-closed)

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

The CONSTELLATION® Vision System’s with premium cassette Non-Invasive Flow Sensor facilitates exceptional IOP stability during vitrectomy, cataract and combined procedures.

Stable IOP Control

The CONSTELLATION® Vision System compensates for and provides command of infusion pressure for more stable IOP control. With real-time infusion adjustments, the CONSTELLATION® Vision System adds a new measure of stability to vitrectomy procedures:

• Features proprietary ALCON® Non-Invasive Flow Sensor technology
• Enables excellent control and constant globe stability
• Allows surgeons to implement bottle changes without procedure interruption
• Includes low and empty bottle alerts

“IOP stability with the CONSTELLATION® Vision System, matched with the valved cannulas may reduce peri-operative pressure changes.”

– Carl Claes, MD

Carl Claes, MD is a paid consultant for Alcon.

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.

Please refer to the back cover for important product information about these products.
Efficient vitrectomy and cataract procedures in a single system

OZil® Torsional Handpiece

Only the OZil® Torsional Handpiece delivers patented side-to-side oscillating ultrasonic movement. With reduced repulsion, it is the new standard in followability and efficiency:

- Decreases repulsion and improves followability
- Facilitates occlusion and effective energy delivery into nuclear fragments
- Potentially decreases dispersion of nuclear fragments
- Offers an improved thermal profile
- Provides a platform for effective micro-coaxial cataract surgery

V-LOCITY® Efficiency Components

The proprietary V-LOCITY™ Efficiency Components found only on the CONSTELLATION® Vision System are helping to optimize OR setup, enhance the surgical experience and increase productivity:

- ENGAUGE® RFID automatically recognizes each device being connected
- Video tutorials help users conduct a faster, error-free setup
- Articulating tray arm allows for sterile setup between cases
- End-case metrics reports track laser shot counts, procedure time and more
- One-button Push Prime helps speed priming sequence
- Integrated VGFI™ tubing eliminates pre-spike and snorkel placement

Integrated PUREPOINT® Laser

With the fully integrated PUREPOINT® Laser, the CONSTELLATION® Vision System gives surgeons exceptional laser precision and control. Intuitively designed for improved functionality and ease of use, the PUREPOINT® Laser features:

- Laser control from the CONSTELLATION® Vision System monitor
- Thin disc laser technology
- The assurance of voice confirmation technology
- Dual ports for simplified transition from endoprobe to LIO
- Customizable multi-function foot pedal for complete surgeon control

OZil® Torsional Handpiece

Only the OZil® Torsional Handpiece delivers patented side-to-side oscillating ultrasonic movement. With reduced repulsion, it is the new standard in followability and efficiency:

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- Offers an improved thermal profile
- Provides a platform for effective micro-coaxial cataract surgery

Chandelier Lighting System

The ALCON® Chandelier Lighting System gives surgeons the ability to clearly perform vitreoretinal surgery with broad illumination:

- Able to engage in either 23G or 25+™ cannula hubs
- Provides a wider coverage area than standard or wide-angle systems
- Offers an illumination angle of 106°

Illuminated Laser Probe

Combining laser with illumination in a curved, flexible tip, the Illuminated Laser Probe offers a wide range of benefits:

- Can be used in 23G, 25+® and 27+® series procedures
- Probe tip temporarily straightens to pass through trocar cannula
- The flexible nitinol tip extends from a rigid tapered cannula

“"The V-LOCITY® Efficiency Components on the CONSTELLATION® Vision System makes the procedure more seamless and have improved our OR set-up time.”

– Dawn Williams, RN*

Additional ALCON® lighting and laser probe accessories are available.

Back 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, OD4+ 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.