

# Game Changer

In 1968, Dick Fosbury revolutionized the high jump by developing a technique that elevated him to Olympic gold, raising the bar for athletes the world over.



## It's time to rewrite the rules of vitreoretinal surgery.

- Experience the ULTRAVIT® 5000 cpm probe with surgeon-controlled duty cycle to **reduce iatrogenic tears and post-op complications**<sup>1</sup>
- Trust in integrated and **stable IOP compensation**<sup>2</sup>
- **Enhance patient outcomes** and achieve faster visual recovery with ALCON® MIVS platforms<sup>3</sup>
- **Increase efficiency during cataract removal** with OZil® Torsional Ultrasound<sup>4</sup>
- **Improve your OR turnover by 39%** with V-LOCITY® Efficiency Components<sup>5</sup>



**Alcon**®

1. Rizzo S, et al. Comparative Study of the Standard 25-gauge Vitrectomy System vs the New Ultra-high-speed Vitrectomy System. *Retina Today*, September Insert, 2010. 2. Data on File, Alcon Research 954-2020-003. 3. Nagpal M, Wartikar S, Nagpal K. Comparison of clinical outcomes and wound dynamics of sclerotomy ports of 20, 25, and 23 gauge vitrectomy. *Retina*. 2009;29(2):225-231. 4. Dr J Zacharias, ASCRS 2010 Film Festival, Best Video of Category, JCRS (To be submitted)<sup>4</sup> 5. Alcon data on file 954-0000-004.

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 **constellation**®  
VISION SYSTEM

*Welcome to the new possible.*



# constellation<sup>®</sup>

## VISION SYSTEM

### Key Features

#### A Fluidics Module:

- Vacuum Control to 650 mmHg
- Flow Control
- IOP Compensation
- Fluid/Air Exchange

#### B Pneumatics:

- ULTRAVIT<sup>®</sup> 5000 CPM Probe
- VFC Injection/Extrusion
- Pneumatic Scissors/Forceps
- Auto Gas Fill

#### C Advanced Xenon Illuminator

#### D Embedded 532 nm PUREPOINT<sup>®</sup> Laser

#### E Display:

- 17" Touch Panel
- Advanced GUI with Video DFUs

#### F Barcode Scanner

#### G Articulating Tray Arm

#### H Auxiliary Advanced Xenon Illuminator

#### I Ultrasonics/Diathermy

#### J Multi-Function Footswitch



### Feature

### Benefit

ULTRAVIT <sup>®</sup> High Speed Vitrectomy Probe	<ul style="list-style-type: none"> <li>• 5000 CPM</li> <li>• Port optimization</li> </ul>	<ul style="list-style-type: none"> <li>• Ergonomic design with soft grip surface</li> <li>• Available in 25+<sup>™</sup>, 23 and 20 gauge</li> </ul>
Surgeon Controlled Duty Cycle - Port Biased Open, 50/50, Port Biased Closed	<ul style="list-style-type: none"> <li>• Introduces a new variable to more precisely control flow</li> <li>• Ability to select 3 different duty cycle options at any given cut rate</li> </ul>	
Integrated Pressurized Infusion - IOP Control	<ul style="list-style-type: none"> <li>• System compensates &amp; provides control of infusion pressure which results in more stable IOP within +/- 2 mmHg</li> </ul>	
Dual Aspiration Modalities	<ul style="list-style-type: none"> <li>• Venturi based vacuum up to 650 mmHg</li> <li>• Flow control option for anterior and posterior procedures</li> </ul>	
Advanced Xenon Illuminator	<ul style="list-style-type: none"> <li>• State of the art illumination for visualizing tissues</li> </ul>	
Embedded PUREPOINT <sup>®</sup> 532 nm Laser	<ul style="list-style-type: none"> <li>• Advanced laser technology controlled from the screen</li> </ul>	
V-LOCITY <sup>®</sup> Efficiency Components - ENGAUGE <sup>®</sup> Radio Frequency Identification Device	<ul style="list-style-type: none"> <li>• Designed to optimize OR set-up, enhance the surgical experience and increase OR productivity</li> <li>• Improve or turnover by 39%.</li> </ul>	
Auto Infusion Valve	<ul style="list-style-type: none"> <li>• Surgeon control of the fluid/air exchange without relying on the circulator</li> </ul>	
Proportional Diathermy and Reflux	<ul style="list-style-type: none"> <li>• Additional surgeon control from the footswitch</li> </ul>	
Auto Gas Fill	<ul style="list-style-type: none"> <li>• Single-person sterile process</li> <li>• Automatic purge and fill of syringe with undiluted C<sub>3</sub>F<sub>8</sub> and SF<sub>6</sub> gases</li> </ul>	
Pneumatic Scissors & Forceps	<ul style="list-style-type: none"> <li>• Footswitch control of scissors and forceps</li> <li>• Single footswitch control for bimanual surgery</li> </ul>	
Barcode Scanner	<ul style="list-style-type: none"> <li>• Assists in the case set-up process</li> <li>• Automatically programs the machine with the pak content</li> </ul>	<ul style="list-style-type: none"> <li>• Tracks disposable inventory usage during the procedure</li> </ul>
Articulating Tray Arm	<ul style="list-style-type: none"> <li>• Facilitates sterile setup before patient comes into the room</li> </ul>	
17" Articulating Display	<ul style="list-style-type: none"> <li>• Facilitates easy access for standing or seated procedures</li> <li>• Easily accessed by the circulator</li> </ul>	
INFINITI <sup>®</sup> Vision System Ultrasonic Technology	<ul style="list-style-type: none"> <li>• INFINITI<sup>®</sup> Vision System Ultrasonics with OZil<sup>®</sup> Torsional Ultrasound</li> </ul>	

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#### Indications for Use:

The CONSTELLATION<sup>®</sup> 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.

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

#### 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<sup>®</sup> 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, 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.

**Important Safety Information: Warnings and Cautions:** A complete listing is available in the CONSTELLATION<sup>®</sup> Vision System Operators Manual. To obtain a copy, please contact Alcon Customer Service.

**Attention:** Reference the Directions for Use for a complete listing of indications, warnings, and precautions.