

The Intelligent Strategy for Optimized Outcomes

Featuring innovative OZil® Intelligent Phaco, the INFINITI® Vision System puts optimized OZil® torsional emulsification and dynamic fluidics management at your fingertips. With significantly enhanced capabilities, OZil® IP is always thinking one step ahead. For more information, visit infinitevision.com or contact your Alcon® representative.



INFINITI® System

Indication: The INFINITI® Vision System with OZil® IP is indicated for emulsification and removal of cataracts, vitreous aspiration and cutting associated with anterior vitrectomy, and bipolar coagulation.

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

Warnings: Appropriate use of INFINITI® Vision System parameters and accessories is important for successful procedures. Use of low vacuum limits, low flow rates, low bottle heights, high power settings, extended power usage, power usage during occlusion conditions (beeping tones), failure to sufficiently aspirate viscoelastic prior to using power, excessively tight incisions, and combinations of the above actions may result in significant temperature increases at incision site and inside the eye, and lead to severe thermal eye tissue damage.

Adjusting aspiration rates or vacuum limits above the preset values, or lowering the IV pole below the preset values, may cause chamber shallowing or collapse which may result in patient injury.

When filling handpiece test chamber, if stream of fluid is weak or absent, good fluidics response will be jeopardized. Good clinical practice dictates the testing for adequate irrigation and aspiration flow prior to entering the eye.

Ensure that tubings are not occluded or pinched during any phase of operation. The consumables used in conjunction with Alcon instrument products constitute a complete surgical system. Use of consumables and handpieces other than those manufactured by Alcon may affect system performance and create potential hazards.

As/Complications: Use of the NeoSonic®, OZil® torsional, U/S, or Aqualase® handpieces in the absence of irrigation flow and/or in the presence of reduced or lost aspiration flow can cause excessive heating and potential thermal injury to adjacent eye tissues.

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

1. Liu Y, Zeng M, et al. Torsional mode versus conventional ultrasound mode phacoemulsification; randomized comparative clinical study. *J Cataract Refract Surg.* 2007;33:287-292.
2. Rekas M, et al. Comparison of torsional and longitudinal modes using phacoemulsification parameters. *Cataract Refract Surg.* 2009;35:1719-1724.
3. Davison J. Cumulative tip travel and implied followability of longitudinal and torsional phacoemulsification. *J Cataract Refract Surg.* June 2008;34.
4. Vasavada, AR, et al. (2010). Comparison of torsional and microburst longitudinal phacoemulsification: a prospective, randomized, masked clinical trial. *Ophthalmic Surg Lasers Imaging.* 2010;41(1):109-114.
5. Cionni, R. Length and frequency of intraoperative occlusive events with new torsional phacoemulsification software. *J Cataract Refract Surg.* In press.
6. Han, YK. Comparison of vacuum rise time, vacuum limit accuracy, and occlusion break surge of 3 new phacoemulsification systems. *Journal of Cataract & Refractive Surgery.* 35(8):1424-1429.
7. Adlan, B. OZil IP in a cataractous/glaucomatous eye. *JAAO Aug 2010.* Insert to *Cataract & Refractive Surgery Today Europe.*
8. Zacharias, J. Role of cavitation in the phacoemulsification process. *Journal of Cataract & Refractive Surgery.* 2008;34(5):846-852.
9. Cionni, R. Comparison of nuclear material chatter: longitudinal versus torsional phacoemulsification. Paper presented at: The ASCRS Symposium on Cataract, IOL and Refractive Surgery; April 30, 2007; San Diego, CA.
10. Adlan, B. Quantitative evaluation of new energy delivery modality in phacoemulsification: power modulation. Paper presented at: ASCRS; 2010, Boston, MA.
11. Allen, D. Evaluation of the new IP mode in torsional phaco. Paper presented at: ESCRS; 2010, Paris, France.
12. Ramanjan, G. Combined occlusion-triggered longitudinal and torsional phacoemulsification during coaxial microincision cataract surgery: Effect on 30-degree mini-flared tip behavior. *Journal of Cataract & Refractive Surgery.* 2011;37(5):825-829.
13. Fernández de Castro, IE, et al. Bead-flow pattern: quantitation of fluid movement during torsional and longitudinal phacoemulsification. *Journal of Cataract & Refractive Surgery.* 2010;36(6):1018-1023.
14. Johansson, C. Quantitative comparison of longitudinal versus torsional phacoemulsification. Paper presented at: European Society of Cataract and Refractive Surgeons Annual Meeting, September 9-13, 2006, London.
15. Johansson, C. Optimizing vacuum settings in torsional phacoemulsification employing lower vacuum settings with torsional facilitates the use of microincision surgery. *Cataract & Refractive Surgery Today.* May 2008.
16. Van Acker, E. Evaluation of a low compliance fluid management system for microcoaxial phacoemulsification. Paper presented at: ASCRS; 2008, Chicago, IL.
17. Han, YK, et al. Heat production: longitudinal versus torsional phacoemulsification. *Journal of Cataract & Refractive Surgery.* 2009;35(10):1799-1805.
18. Zacharias, J. Thermal characterization of phaco probes operated in torsional and longitudinal modalities using alternative methodologies. Paper presented at: ASCRS; 2011, San Diego, CA.
19. Jun B. Thermal study of longitudinal and torsional ultrasound phacoemulsification: tracking the temperature of the corneal surface, incision, and handpiece. *Journal of Cataract & Refractive Surgery.* 2010;36(5):832-837.
20. Jun B. Corneal wound architecture and integrity after torsional and mixed phacoemulsification: evaluation of standard and microincisional coaxial techniques. *Ophthalmic Surg Lasers Imaging.* 2010 Jan-Feb;41(1):128-34.
21. Cionni, R. Evaluation of chamber stability during microcoaxial phaco using two different fluid management systems. Paper presented at: The ASCRS Symposium & Congress on Cataract, IOL, and Refractive Surgery; April 28, 2007; San Diego, CA.
22. INFINITI® Vision System Operator's Manual.
23. Rebers, L. Evaluation of low-surge fluidic system. ASCRS Presentation, 2011, San Diego, CA.
24. Allen, D. Experience with electro-assisted IOL injection device. ASCRS Presentation, 2011, San Diego, CA.
25. Johansson, C. Comparison of Motorized IOL Insertion to Traditional Manual IOL Delivery. ASCRS Presentation, 2011, San Diego, CA.

Anticipating every move.
Now that's smart.

The INFINITI® Vision System



Alcon

© 2012 Novartis 3/12 INF11741SAA
For International (Non-USA) Use Only

infinitevision.com



Anticipating every move.
Now that's smart.

The INFINITI® Vision System



The Power of Intelligent Phaco.

The Power of OZil® IP

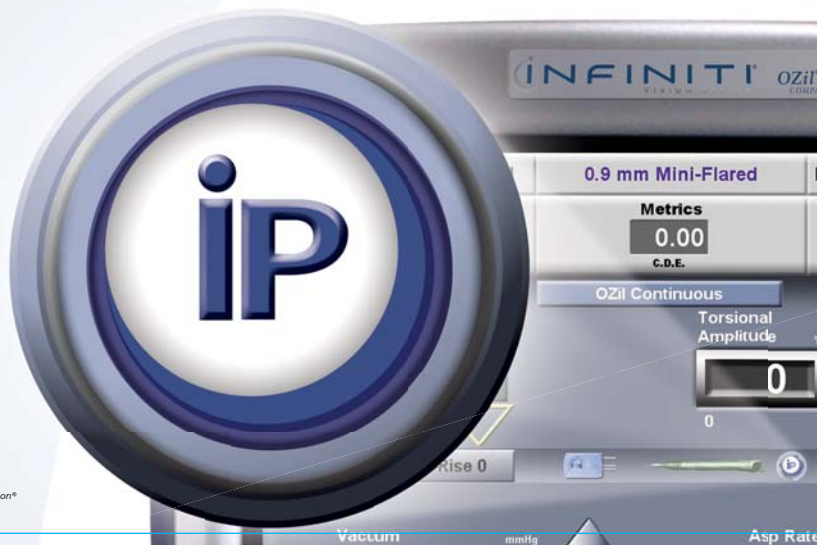
The INFINITI® Vision System, featuring OZil® Intelligent Phaco (IP) puts the new standard for phacoemulsification at your fingertips. Strategically designed with intuitive and adaptive control, OZil® IP brings surgeons enhanced confidence in managing phacoemulsification during cataract surgery.

Integrated with the unique, side-to-side shearing of the OZil® Torsional Handpiece, the INFINITI® Vision System with OZil® IP software provides a wide range of exceptional benefits:

- Improves efficiency^{1,2,3,4}
- Improves followability^{3,5}
- Maintains a more natural state of the eye during cataract removal^{6,7}

“With OZil® IP...you maintain followability, improve efficiency and decrease the energy that goes into the eye.”

– Robert Cionni, MD^{5†}



† Paid Consultant to Alcon®



With OZil® IP, the INFINITI® Vision System is always thinking one step ahead.

The INTREPID® Micro-Coaxial System

The INTREPID® Micro-Coaxial System provides a complete portfolio of tools that set the new standard in Micro-Incision Cataract Surgery (MICS). The tools are designed to work together to deliver effective, streamlined and seamless cataract procedures.

INFINITI® Vision System

- Utilizes OZil® Torsional Handpiece for positive results in micro-incision procedures
- Provides enhanced chamber stability and control^{5,16,21}

INTREPID® PLUS Fluidics Management System (FMS)

- Designed specifically for safe and efficient micro-coaxial cataract removal
- Advanced vacuum pressure and occlusion onset sensing²²
- Improved ergonomic I/A tubing²³

INTREPID® AutoSert® IOL Injector^{24,25}

- Enhances control of IOL delivery
- Innovative single-hand IOL insertion
- Works with all standard incision sizes (especially MICS)
- Customizable surgeon parameters for better procedural control

MicroSmooth® ULTRA and NANO Infusion Sleeves

- Provides easier wound entry and reduced incision friction
- Reduces ocular tissue stress

AcrySof® Aspheric IOLs

- Advanced aspheric platform with thin square edge profile and a fully usable 6mm optic
- Proven family of IOLs delivers complete confidence with predictable procedures, ease of implantation and consistently excellent outcomes

ClearCut™ INTREPID® Incisional Instruments

- Creates precise, squared incisions for outstanding wound recovery
- Provides excellent entry and withdrawal through improved blade tracking

* Reg. U.S. Pat. & TM Off.

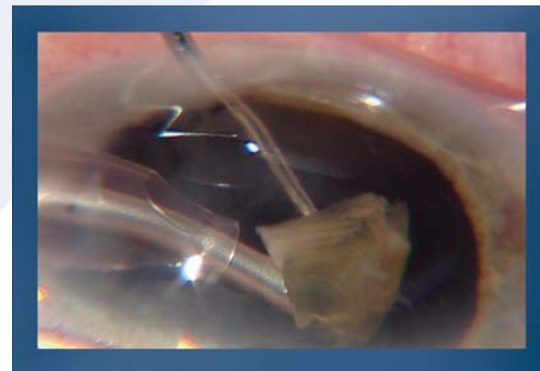


Intelligent Energy Management

By eliminating the repulsion associated with the jackhammer effect of traditional longitudinal ultrasound, the OZil® Torsional Handpiece optimizes energy delivery during cataract surgery.^{8,9} Combined with the new OZil® IP software, its performance has been elevated to a new level.⁵

- Enhances emulsification by keeping lens material at the shearing plane, the ideal location for emulsification¹⁰
 - Increases cutting efficiency across cataract grade densities^{5,11,12}
- Improves followability
 - Improves fluidic movement of fragments to and through the tip^{5,13}
 - Decreases potential for dispersion of nuclear fragments during emulsification⁹
- Maintains a more natural state of the eye during surgery^{6,7}
 - Improves anterior chamber stability
 - Reduces IOP fluctuations

Torsional Phaco Increases Ultrasound Efficiency



Superb Followability

Because it does not repulse material, the OZil® Torsional Handpiece sets a new standard in phacoemulsification. OZil® IP further improves followability by facilitating intelligent delivery of energy with improved movement of fragments to and through the tip. This can lead to:

- Decreased time to remove lens material^{3,4}
- Reduced consumption of irrigation fluid⁵
- Less dependence on excessively high fluidics^{14,15}

Comparison of Torsional vs. Traditional Fluidics Efficiency



Kerry Soloman, MD, ASCRS 2006

Dynamic Fluidics Management

The innovative INFINITI® Fluidics Management System (FMS) utilizes our proven low-compliance design to deliver superior fluidic response and chamber stability during the cataract procedure.^{6,16} Enhanced with OZil® IP intelligent energy management software, the result is a streamlined flow of material fragments to and through the tip.

- Dual Sensing Technology monitors conditions and senses occlusion for control over the acquisition of nuclear tissue
 - Irrigation Pressure Sensor (IPS) – monitors the relative pressure of the anterior chamber, detects and responds to help lens material stay near the tip
 - Vacuum Pressure Sensor (VPS) – provides consistent calibration and real-time vacuum and flow information to enable precise surgical control
- Allows for fast set up and streamlined transitions between patients



INTREPID® PLUS FMS

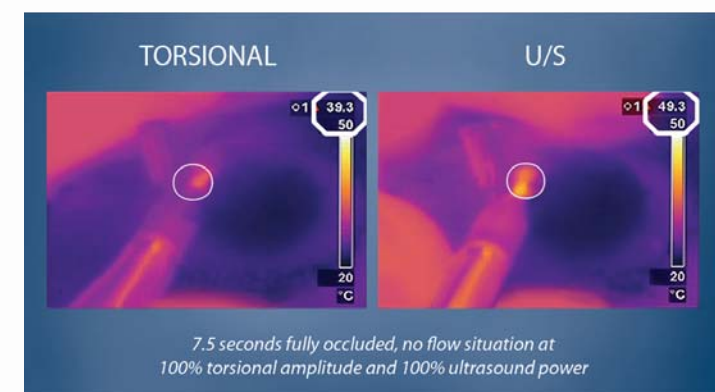
For surgeons looking for a smooth, reassuring cataract procedure, the INFINITI® Vision System now offers the new INTREPID® PLUS FMS. This enhanced version of the original INFINITI® FMS eliminates distractions for safe and efficient micro-coaxial cataract removal.

Enhanced Thermal Safety

By delivering fully controllable side-to-side lens material shearing, the OZil® Torsional Handpiece achieves greater removal efficiency. A wide range of available tips allows surgeons to optimize shearing movement at the distal end, while reducing movement at the incision site. Combined with the lower frequency of torsional amplitude, the INFINITI® System with OZil® IP is a smart choice for increased thermal protection.

- Operates at cooler temperatures than traditional ultrasound^{17,18,19}
- Allows for sealed incisions and continuous torsional modes²⁰

Thermal Imaging Comparison



Dr. Richard MacKool, Thermal Imaging Comparison