JUST GO

The CATALYS® System

TAKE THE FAST TRACK TO SURGICAL EXCELLENCE
Put Your Practice in the Premium Fast Lane WITH THE CATALYS® SYSTEM

It’s all ahead of you — head-turning clinical capabilities, premium growth and a gentle experience.

Don’t let opportunity pass you by. Seize your premium future with the CATALYS® System.

Outstanding Clinical OUTCOMES

Seamless Practice INTEGRATION

Premium Patient EXPERIENCE

INDICATIONS: The OptiMedica® CATALYS® Precision Laser System is indicated for use in patients undergoing cataract surgery for removal of the crystalline lens. Intended uses in cataract surgery include anterior capsulotomy, phacofragmentation, and the creation of single-plane and multi-plane arc cuts/incisions in the cornea, each of which may be performed either individually or consecutively during the same procedure.

See Important Safety Information continued on page 16.
GO CONFIDENTLY

In the pursuit of excellence, the CATALYS® System is your ultimate guide. With its unrivaled precision and outstanding performance, you can strive for more than just standard results — you can pursue outstanding outcomes.

HIGHLY ACCURATE AND RELIABLE CAPSULOTOMIES

- Consistently higher precision and accuracy compared to competing laser systems
- Maintains near-perfect size and shape postoperatively

STRONG, RELIABLE CAPSULOTOMIES

- Twice as strong as manual capsulotomies
- True non-applanating interface does not demonstrate corneal folds

HIGHEST DEMONSTRATED RATE OF COMPLETE 360° CAPSULOTOMIES

>99%

Complete capsulotomy in less than one second

INCOMPLETE CAPSULOTOMY

Corneal folds are associated with incomplete capsulotomies and have been frequently observed with applanating interfaces.

PRECAUTIONS: The CATALYS® System has not been adequately evaluated in patients with a cataract greater than Grade 4 (via LOCS III); therefore no conclusions regarding either the safety or effectiveness are presently available. See Important Safety Information continued on page 16.

OUTSTANDING CLINICAL OUTCOMES

POWERFULLY EFFECTIVE FRAGMENTATION

- Complete softening and segmentation
- Optimized fragmentation volume with automatic lens tilt management
- Multiple fragmentation patterns
- High-quality fragmentation, even in dense cataracts

CUSTOMIZABLE FRAGMENTATION OPTIONS, with an adjustable softening grid for complete softening and segmentation

MULTIPLE CENTRATION TYPES, including scanned capsule, for effective lens centration

COMPLETE CAPSULOTOMY

Since the CATALYS® System patient interface does not demonstrate corneal folds, it does not interfere with laser delivery.

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COMPLETE SOFTENING AND SEGMENTATION

Optimized fragmentation volume with automatic lens tilt management

MULTIPLE CENTRATION TYPES

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SEGMENTATION

Quadrants

Quadrants Softened

Sextants

Sextants Softened

Octants

Octants Softened

Quadrants Complete

OUTCOMES

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The CATALYS® System features a femtosecond laser designed specifically for cataract surgery, which is just part of what makes it the most accurate laser cataract surgery platform available.¹

Arcuate incisions clinically validated within:

- 0.83 ± 0.66% of intended optical zone²
- 0.22 ± 0.20° of intended axis³
- 0.22 ± 0.29° of intended length⁴

FINE-TUNED INCISION PLACEMENT
- Optimized incision placement and personalization with imaging and image guidance technology
- Wide side-cut angle (anterior) range of 30°–150° for anterior penetrating and intrastromal incisions
- Incredible flexibility in incision type and depth for arcuate incisions

FLEXIBLE INCISION OPTIONS
More personalized and precise surgical procedures.

ANTERIOR PENETRATING INCISIONS

- Uncut Anterior
- Uncut Posterior

- Side Cut Angle
  - 90°
  - 120°

INTRASTROMAL INCISIONS

- Uncut Anterior
- Uncut Posterior

- Side Cut Angle
  - 90°
  - 120°

PRECAUTIONS: Cataract surgery may be more difficult in patients with an axial length <22 mm or >26 mm, and/or an anterior chamber depth <2.5 mm due to anatomical restrictions. See Important Safety Information continued on page 16.

OUTCOMES
The CATALYS® System offers highly precise and personalized treatments, including intrastromal and anterior penetrating incisions, allowing you to tailor each procedure and deliver impressive clinical outcomes.

PURSUE PREMIUM OUTCOMES
Achieve excellence with a platform engineered for premium results.

- Incisions personalized to each patient’s unique anatomy
- Like manual surgery, CATALYS® System procedures result in low capsular tear rates⁵
- Minimal postoperative corneal edema and inflammation⁶
- Non-applanating patient interface generates a modest IOP increase compared to an appplanating interface⁷
- Lower subconjunctival hemorrhage rates associated with non-contact patient interface⁸
- Enables fluidics-driven lens extraction

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- Lower subconjunctival hemorrhage rates associated with non-contact patient interface⁸
- Enables fluidics-driven lens extraction

Uncut Anterior 20% Uncut Posterior 20% Side Cut Angle 90° Side Cut Angle 120° Uncut Anterior 20% Uncut Posterior 20% Side Cut Angle 90° Side Cut Angle 120° Uncut Anterior 20% Uncut Posterior 20% Side Cut Angle 90° Side Cut Angle 120°
GO BEYOND

Push the boundaries of image guidance with full-volume, 3D, high-resolution, streaming Optical Coherence Tomography (OCT) imaging and INTEGRAL GUIDANCE Technology.

3D OCT IMAGING
- Identifies anterior cornea, posterior cornea, iris, anterior lens and posterior lens
- Performs >10,000 A-scans to capture high-resolution data for the full volume of the anterior segment
- Displays axial and sagittal cross sections from completed scans
- Refreshes at 0.5–2.0 Hz for real-time visualization of the eye throughout treatment

INTEGRAL GUIDANCE TECHNOLOGY
- Generates accurate pictures of the anterior chamber using 3D OCT imaging data
- Maps incision orientation and depth based on the treatment plan
- Provides safety zones that adapt for lens tilt to maximize lens fragmentation volume

BACK YOUR OUTCOMES
with guided delivery that accounts for lens tilt, eye movement and unique ocular structures
GO FAST

Boost premium conversion with a system designed to seamlessly fit into your practice.

EASY TO LEARN
EASY TO LOVE

Seamless implementation, elegant operation. The CATALYS® System gets you smoothly from standard to premium with a simple, four-step process.

1. JUST PLAN
Start each procedure with simple, template-based treatment plans and surgeon setups for fast, efficient surgical planning and customization.

2. JUST ENGAGE
Ensure a quick and gentle procedure with guided docking and the non-applanating LIQUID OPTICS interface, which minimizes IOP rise and does not demonstrate corneal folds.

3. JUST VISUALIZE & CUSTOMIZE
Review and confirm anatomical landmarks created by high-resolution, 3D OCT imaging. Validate incision placement according to your treatment plan with INTEGRAL GUIDANCE Technology.

4. JUST TREAT
Treat with confidence, achieve your surgical plan and experience the CATALYS® System’s outstanding clinical performance.

PRECAUTIONS: Patients must be able to lie flat and motionless in a supine position and able to tolerate local or topical anesthesia. See Important Safety Information continued on page 16.
GO EASY

When you can deliver a fully personalized, gentle procedure, it’s no wonder more cataract patients prefer the CATALYS® System.17

PATIENT-FOCUSED PROCEDURES

- Quick and gentle docking for patient comfort
- Personalized surgical procedure from planning to incision
- Adaptive user interface for outstanding clinical outcomes

“I have been very impressed with how quickly patients have embraced the CATALYS® System and how easily and rapidly I’ve been able to integrate the technology into my practice. The precision and accuracy are obvious, and patients are clearly benefiting from the enhanced performance that the system provides.”

– Prof. H. Burkhard Dick, MD, PhD
Bochum University Eye Clinic
Bochum, Germany

IT ALL STARTS WITH AN OUTSTANDING INTERFACE

- True non-applanating surface does not demonstrate corneal folds, resulting in outstanding incisions3
- Not contraindicated for patients with glaucoma
- Clear optical path with wide aperture, optimal for corneal incisions

The CATALYS® System

The only platform with two patient interface sizes so you can deliver a gentle docking experience to more patients.*

* This comparison is based on publicly available sources regarding LENSAR® System, LenSx® System and VICTUS® System in the U.S. as of October 2015. They are subject to change at the discretion of their respective manufacturers.
Surgical excellence is just within reach. Make LCS yours for outstanding clinical performance designed to fuel your premium future. Once you get in the LCS fast lane, you’ll never look back.

Outstanding Clinical OUTCOMES
• Most accurate LCS platform
• Complete capsulotomy in < 1 second
• > 99% complete capsulotomy rate
• Complete softening and segmentation
• Incredibly flexible incision options
• Automatic lens tilt and cyclorotation

Seamless Practice INTEGRATION
• More patients and premium procedures
• High consumer satisfaction
• Easy on both surgeons and patients

Premium Patient EXPERIENCE
• More patients prefer the CATALYS® System
• Quick, gentle docking and a true non-applanating interface
• Two interface sizes for the ability to dock more patients
• Precise, personalized incisions for outcomes that stand apart

REFERENCES
IMPORTANT SAFETY INFORMATION FOR THE CATALYS® PRECISION LASER SYSTEM

CONTRAINDICATIONS: The CATALYS® System is contraindicated in patients with corneal ring and/or inlay implants, severe corneal opacities, corneal abnormalities, significant corneal edema or diminished aqueous clarity that obscures OCT imaging of the anterior lens capsule, patients younger than 22 years of age, descemetocele with impending corneal rupture, and any contraindications to cataract surgery. WARNINGS: Prior to INTEGRAL GUIDANCE System imaging and laser treatment, the suction ring must be completely filled with sterile buffered saline solution. If any air bubbles and/or a meniscus appear on the video image before treatment, do not initiate laser treatment. Before initiating laser treatment, inspect images created from the OCT data, surface fits, and overlaid pattern in both axial and sagittal views, and review the treatment parameters on the Final Review Screen for accuracy. Safety margins for all incisions are preserved only if Custom Fit Adjustments to ocular surface(s) are applied in accordance with the instructions for use. Purposeful misuse of the Custom Fit Adjustment to ocular surfaces can result in patient injury and complication(s), and therefore must be avoided. Standard continuous curvilinear capsulorrhexis (CCC) surgical technique must be used for surgical removal of the capsulotomy disc. The use of improper capsulotomy disc removal technique may potentially cause or contribute to anterior capsule tear and/or a noncircular, irregularly shaped capsulotomy. Verify that the suction ring is correctly connected to the disposable lens component of the LIQUID OPTICS Interface during the initial patient docking procedure. PRECAUTIONS: Use caution when treating patients who may be taking medications such as alpha blockers (e.g. Flomax®) as these medications may be related to Intraoperative Floppy Iris Syndrome (IFIS); this condition may include poor preoperative dilation, iris billowing and prolapse, and progressive intraoperative miosis. These conditions may require modification of surgical technique such as the utilization of iris hooks, iris dilator rings, or viscoelastic substances. Surgical removal of the cataract more than 30 minutes after the laser capsulotomy and laser lens fragmentation has not been clinically evaluated. The clinical effects of delaying surgical removal more than 30 minutes after laser anterior capsulotomy and laser lens fragmentation are unknown. The LIQUID OPTICS Interface is intended for single patient use only. Full-thickness corneal cuts or incisions should be performed with instruments and supplies on standby, to seal the eye in case of anterior chamber collapse or fluid leakage. Patients who will undergo full-thickness corneal incisions with the CATALYS® System should be given the same standard surgical preparation as used for patients undergoing cataract surgery for the removal of the crystalline lens. During intraocular surgery on patients who have undergone full-thickness corneal incisions with the CATALYS® System, care should be taken if an eyelid speculum is used, in order to limit pressure from the speculum onto the open eye. Patients who will be transported between the creation of a full-thickness corneal incision and the completion of intraocular surgery should have their eye covered with a sterile rigid eye shield, in order to avoid inadvertent eye injury during transport. ADVERSE EFFECTS: Complications associated with the CATALYS® System include mild Petechiae and subconjunctival hemorrhage due to vacuum pressure of the LIQUID OPTICS Interface Suction ring. Potential complications and adverse events generally associated with the performance of capsulotomy and lens fragmentation, or creation of a partial-thickness or full-thickness cut or incision of the cornea, include: Acute corneal edema, chronic corneal edema, Descemet’s detachment, detached or dislocated intraocular lens implant, dioptria, dropped or retained lens, dry eye/superficial punctate keratitis, edema, elevated intraocular pressure, endothelial cell loss, glaucoma, halo, inflammation, incomplete capsulotomy, trauma, scarring of the iris, iris atrophy, retinal detachment, retinal hemorrhage, subluxation of the intraocular lens implant, vitreous hemorrhage, and any contraindications to cataract surgery.

ATTENTION: Reference the labeling for a complete listing of Indications and Important Safety Information.

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