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# WHO WE ARE

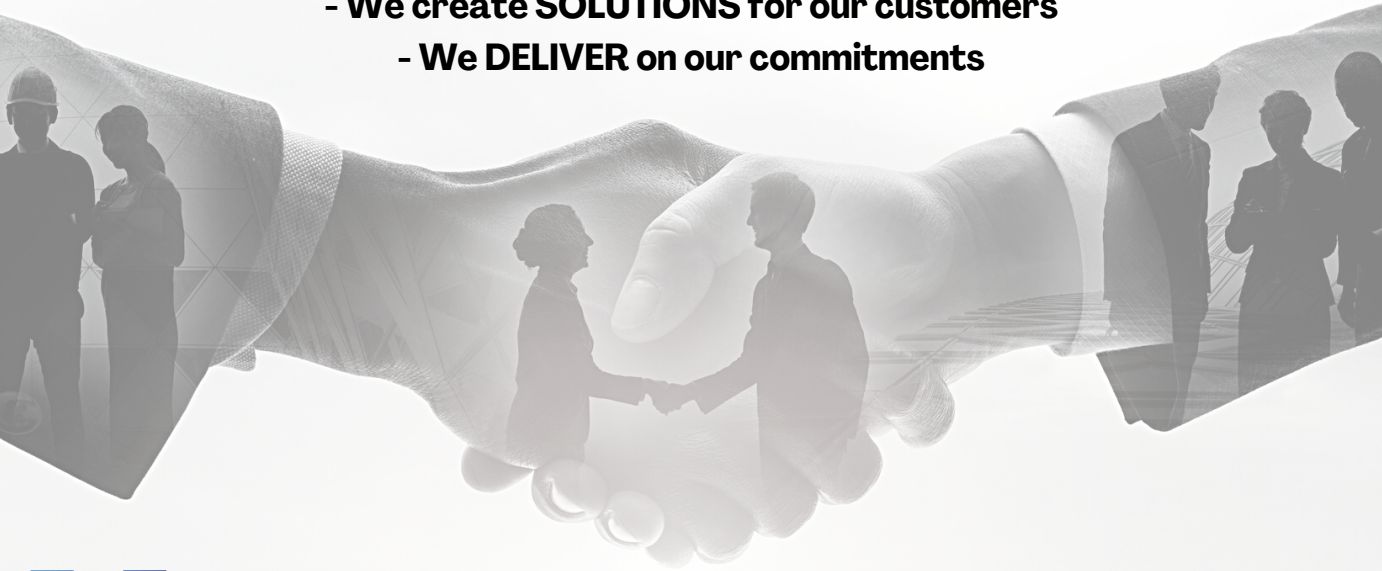
Vortex Surgical is comprised of proven retina industry professionals who specialize in the innovative design, development, manufacture and distribution of surgical products and systems for the vitreo-retinal surgical space.

With over 175 years of combined surgical retina experience, we are committed to providing clinically significant products to aid our customers in providing world-class eye care both in the United States and worldwide.



# OUR VALUES

- We **ALWAYS** challenge the status quo
- We take **PRIDE** in delivering disruptive technology
- We create **SOLUTIONS** for our customers
- We **DELIVER** on our commitments







# Surgeon Inspired. Vortex Driven.

Vortex Surgical is committed to working with retinal surgeons to bring their product ideas to the market.

Vortex Surgical has collaborated with multiple surgeons launching multiple clinically significant products since 2016 including these popular brands:

**E.D.D.**  
EXTERNAL DRAINAGE & DEPRESSION

**NANO SUBRET**  
GATEWAY DEVICE

**30GA P.C. MAINTAINER**  
SUPPLEMENTARY INFUSION LINE

**BEACON**  
ILLUMINATION SYSTEM

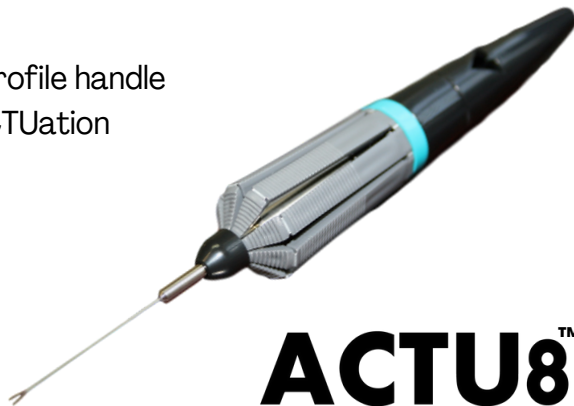
**TID PHAROS**  
ILLUMINATED DEPRESSOR

**Tewari (T2) Forceps**



# ACTU8™ FORCEPS

- Precision control with a highly responsive, low profile handle
- 8 individual levers to provide 360 degrees of ACTUation
- Less tip retraction compared to other forceps
- Glare-Free Shaft and tip
- Removable tail piece for improved access
- Multiple tip styles to fit every surgeon's needs
- Available in 23ga, 25ga and 27ga
- Standard and Myopic lengths available



**ACTU8™**  
PREMIUM DISPOSABLE INSTRUMENTATION

## Responsive.

- Linear Actuation
- Instantaneous Tip Movement
- Low Closure Force

## Consistent.

- Patented Tip Fabrication Process
- Robust Inspection Procedure
- Reproducible Results, Every Time

## Effective.

- Excellent Maneuverability
- Superior Grip Strength
- Continuous Evolution



**Experience the Difference.**

# ACTU8™ FORCEPS

## ILM



## Adaptive



## End-Grip



## Pro-Grip



## Tewari T2



## Asymmetrical



## PRODUCT CODES:

### PRO-GRIP

VS0713.23	23ga Pro-Grip Forceps
VS0713.25	25ga Pro-Grip Forceps
VS0713.27	27ga Pro-Grip Forceps

### ADAPTIVE

VS0740.23	23ga Adaptive Forceps
VS0740.25	25ga Adaptive Forceps
VS0740.27	27ga Adaptive Forceps

### TEWARI T2

VS0742.23	23ga Tewari T2 Forceps
VS0742.25	25ga Tewari T2 Forceps

### END-GRIP

VS0743.23	23ga End-Grip Forceps
VS0743.25	25ga End-Grip Forceps

### ILM

VS0744.23	23ga ILM Forceps
VS0744.25	25ga ILM Forceps
VS0744.27	27ga ILM Forceps

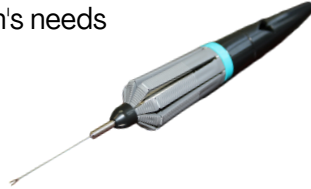
### ASYMMETRICAL

VS0745.23	23ga Asymmetrical Forceps
VS0745.25	25ga Asymmetrical Forceps



# MYOPIC ACTU8™ FORCEPS

- **5mm added length** to forceps shaft for high myopic eyes
- All of the benefits of the ACTU8 Handle and Tip
- Multiple tip styles to fit every surgeon's needs
- Available in 23ga, 25ga and 27ga



## PRODUCT CODES:

VS0740.23-35	23ga Adaptive - Myopic
VS0740.25-35	25ga Adaptive - Myopic
VS0740.27-35	27ga Adaptive - Myopic
VS0742.23-35	23ga Tewari T2 - Myopic
VS0742.25-35	25ga Tewari T2 - Myopic
VS0743.23-35	23ga End-Grip - Myopic
VS0743.25-35	25ga End-Grip - Myopic
VS0744.23-35	23ga ILM - Myopic
VS0744.25-35	25ga ILM - Myopic
VS0744.27-35	27ga ILM - Myopic

# IOL RETRIEVAL & SUTURE MANIPULATION

- Two unique products to help with IOL retrieval and suture manipulation
- Straight, 25ga IOL retriever design to grasp haptic or IOL for easy removal from posterior space
- Curved, 27ga suture manipulator designed to help with suture management when positioning and securing a four-eyelet IOL



## PRODUCT CODES:

VS0790.25	25ga Dropped IOL Retriever
VS0795.27C	27ga DENROD Suture Manipulator



# CONVENIENCE KITS

Vortex Surgical Convenience Kits combines best-in-class disposable products into a compact and efficient kit

- Streamline Ordering Process
- Facilitates Case Setup
- Minimizes Packaging waste

Design your own Convenience Kit  
to fit your facility's needs!



**ACTU8 Forceps + Disposable Lens + ILM Elevator + Cannula**

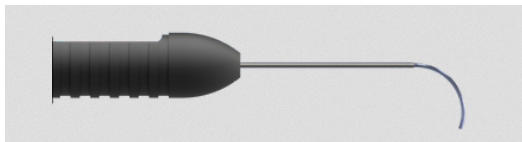
Forceps plus any combination of lens, elevator and/or cannula!





# MAXREACH™ LASER PROBES

- Industry leading 95+ degree curve to allow for superior access to the anterior periphery
- Uniform and consistent uptake pattern
- Smooth slide button actuation
- Maximized laser throughput
- Available in 23ga, 25ga and 27ga



**All Vortex Laser Probes are compatible with:**  
Alcon, Bausch & Lomb, DORC (US model), Ellex, Iridex, Zeiss

## PRODUCT CODES:

VS0140.23	23ga MAXReach Laser Probe
VS0140.25	25ga MAXReach Laser Probe
VS0140.27	27ga MAXReach Laser Probe

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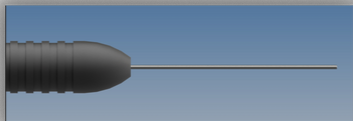


# STANDARD & ILLUMINATED LASER PROBES



- Hand polished fibers for maximum laser throughput
- Premium, malleable fiber cladding eliminates coiling on surgical field
- Vigorously tested for emission, defect and laser power
- Bright, crisp illumination pattern on Illuminated Laser Probes

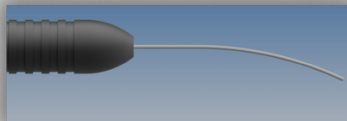
## STRAIGHT



### PRODUCT CODES:

VS0110.23	23ga Straight Laser Probe
VS0110.25	25ga Straight Laser Probe
VS0110.27	27ga Straight Laser Probe

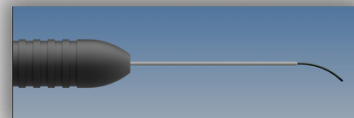
## CURVED



### PRODUCT CODES:

VS0120.23	23ga Curved Laser Probe
VS0120.25	25ga Curved Laser Probe
VS0120.27	27ga Curved Laser Probe
VS0125.23	23ga Curved - Illuminated
VS0125.25	25ga Curved - Illuminated

## FLEX-TIP



### PRODUCT CODES:

VS0130.23	23ga Flex-Tip Laser Probe
VS0130.25	25ga Flex-Tip Laser Probe



# TID PHAROS™ ILLUMINATED DEPRESSOR

- TID Pharos is the market's ONLY one-piece, complete illuminated depressor that connects directly into your vitrectomy machine
- Conventional, ball-point depressor tip with a "Side Fire Illumination" feature allows for a better view, less glare and improved surgeon ergonomics
- The TID Pharos is designed to offer the surgeon the ability to simultaneously perform unassisted scleral depression while shaving the vitreous base
- Additional benefits include: identifying retained lens fragments, identifying radiation seed placements and locating breaks/tears in the outer periphery

**TID PHAROS™**  
**ILLUMINATED DEPRESSOR**



## PRODUCT CODES:

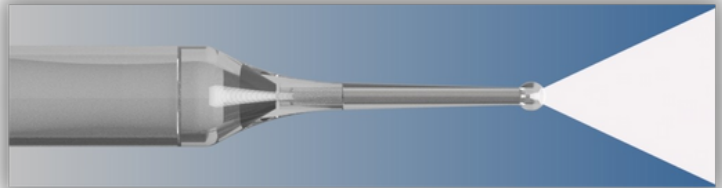
VS0801A	TID Pharos - Alcon
VS0801B	TIP Pharos - Bausch & Lomb
VS0801D	TID Pharos - DORC

Trademarks are the property of their respective owners



# TID ILLUMINATED DEPRESSOR

- First generation, illuminated depressor cap-over product designed to fit over your vitrectomy machine endoilluminator
- Perform unassisted scleral depression while shaving the vitreous base
- Compatible with Alcon, Bausch & Lomb and DORC EVA standard endoilluminators



**PRODUCT CODE:** VS0800 TID Illuminated Depressor

Trademarks are the property of their respective owners

**TID** | TODORICH  
ILLUMINATED DEPRESSOR



# SOFT TIP CANNULAS

- Soft Tip Cannulas to fit any procedure
- Custom tubing for high flow performance
- Easy passage through all cannula systems without cutting down the tip

**1mm and 0.5mm - Soft Tip lengths available**



**EZpass™**  
SOFT TIP CANNULA

# BLUNT CANNULAS

- Highly radiused distal tip makes safe for retinal surface.
- Flow rate significantly increased over soft tips
- Available in 23ga, 25ga and 27ga



# SIDE PORT CANNULAS

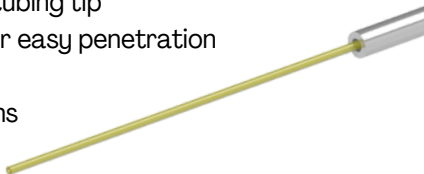
- Unique closed end, side port opening allowing for controlled injections of stains and other therapies
- Available in 27ga single and dual side ports





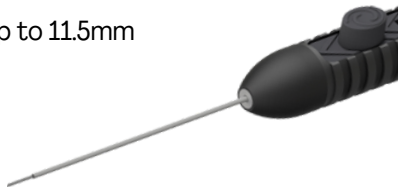
# SUBRETINAL INJECTION CANNULA

- 41ga x 88mm polyimide tubing tip
- Rigid polyimide allows for easy penetration through pathology
- Perfect for TPA injections
- Available in 25ga



# VERSATILE SOFT TIP CANNULA

- Extendable silicone tubing allows for atraumatic subretinal drainage.
- Extendable tubing length up to 11.5mm
- Available in 23ga and 25ga



## PRODUCT CODES:

### SOFT TIP CANNULA

VS0200.23	23ga Soft Tip Cannula - 1mm
VS0200.25	25ga Soft Tip Cannula - 1mm
VS0200.27	27ga Soft Tip Cannula - 1mm
VS0205.23	23ga Soft Tip Cannula - 0.5mm
VS0205.25	25ga Soft Tip Cannula - 0.5mm
VS0205.27	27ga Soft Tip Cannula - 0.5mm

### BLUNT CANNULA

VS0201.23	23ga Blunt Cannula
VS0201.25	25ga Blunt Cannula
VS0201.27	27ga Blunt Cannula

### SIDE PORT CANNULA

VS0202.27	27ga Side Port Cannula - Single
VS0203.27	27ga Side Port Cannula - Dual

### SUBRETINAL INJECTION CANNULA

VS0220.25	25ga Subretinal Injection Cannula
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### VERSATILE SOFT TIP CANNULA

VS0280.23	23ga Versatile Soft Tip Cannula
VS0280.25	25ga Versatile Soft Tip Cannula



# EXTERNAL DRAINAGE & DEPRESSION - EDD

- 28ga drainage needle x 2.4mm long
- Eliminates the need for a cut down while buckling
- Precise localization of drainage point
- Fixed drainage needle length for improved control
- Straight and Curved versions available



## PRODUCT CODES:

VS0290 Straight External Drainage  
VS0290C Curved External Drainage

# NANO SUBRET™ INJECTION DEVICE

- Optimized for use without vitrectomy
- Transcleral / transvitreal passage
- Precise subretinal delivery of medications, gene therapy and stem cells
- Ideal for tumor biopsies
- 28ga self-penetrating outer needle with 41ga beveled injection needle
- Straight and Curved versions available



## PRODUCT CODES:

VS0225 Straight NANO SubRet  
VS0225C Curved NANO SubRet



# INTERNAL DELIVERY DEVICE - IDD

- Beveled end for easy penetration of pathology
- Ideal for delivery of viscoelastics
- Micro-does tubing set included to minimize injection waste.
- Available in 25ga



# BACKFLUSH

- High Flow Soft Tip with backflush reflux handle
- Maximized volume reflux button
- Available in 23ga, 25ga and 27ga
- Retractable and Non-Retractable versions available



## PRODUCT CODES:

VS0240.30	30ga PC Maintainer
VS0250.25	25ga Internal Delivery Device
VS0270.23	23ga Backflush
VS0270.25	25ga Backflush
VS0270.27	27ga Backflush
VS0275.23	23ga Retractable Backflush
VS0275.25	25ga Retractable Backflush
VS0275.27	27ga Retractable Backflush

# 30GA PC MAINTAINER

- Supplementary infusion line for reops, teaching facilities
- 30ga insertion needle
- Provides infusion while suturing infusion line sclerotomy
- Developed in cooperation with Justin Gutman, MD



# BEACON™ ILLUMINATION SYSTEM

A complete illumination system designed for the **Ocular Oncologist** for use in the clinic or operating room!



## BEACON™ LED LIGHT SOURCE



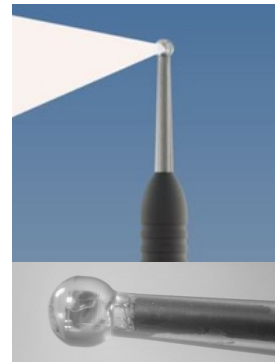
- 50 watt LED Light Source
- Customized illumination pathway to maximize output and usable light
- Low profile and portable unit for use in the clinic or operating room

**PRODUCT CODE:** VS0900 Beacon Light Source



# BEACON™ TRANSILLUMINATOR

- A conventional ball-point depressor tip with a “Side Fire Illumination” feature allows for a better view, less glare and improved surgeon ergonomics
- The device is designed to offer the surgeon the ability to simultaneously perform unassisted scleral depression while performing oncology evaluations



**PRODUCT CODE:** VS0802 Beacon Transilluminator

# BEACON™ PUPILLARY ILLUMINATOR



- Provides illumination through the pupil for superior identification and marking of choroidal tumors
- Helps identify Vortex veins and other structures during buckling

**PRODUCT CODE:** VS0803 Beacon Pupillary Illuminator





# ILM ELEVATORS

- Soft silicone tip that is safe for the retinal surface
- Diamond dusted tip helps elevate membrane edge
- Available in retractable and non-retractable versions
- Available in 23ga and 25ga



## PRODUCT CODES:

VS0300.23 23ga ILM Elevator

VS0300.25 25ga ILM Elevator

VS0350.23 23ga Retractable ILM Elevator

VS0350.25 25ga Retractable ILM Elevator



# DISPOSABLE SURGICAL LENSES



Vortex Surgical is proud to partner with Volk Surgical to bring high-quality, disposable surgical lenses to our surgeons!

- Six popular styles
- High resolution, direct-image retinal views
- Silicone stabilizing ring eliminating the need for suture ring

## PRODUCT CODES:

VVFD	Flat Disposable Lens
VMD	Magnifying Disposable Lens
VWFD	Widefield Disposable Lens
VBCD	Biconcave Disposable Lens
V30PD	30 degree Disposable Lens
VFLATSSVD	Flat (4 feet) Disposable Lens



# I<sup>2</sup> KITS

## FOR INTRAVITREAL INJECTIONS

Injection kits are comprised of the tools you need to perform sterile intravitreal injections in the office or operating room.

Speculums, markers, needles, syringes and everything else in between.

Let Vortex Surgical help your office become more efficient with your daily injections.



We offer three popular configurations, however, we would be happy to design a kit to meet your needs.

# I<sup>2</sup>KITS

FOR INTRAVITREAL INJECTIONS

## BASIC

- Adult Blade Speculum
- Scleral Marker



VS0500 I2 Basic Kit

## STANDARD

- Adult Blade Speculum
- Scleral Marker
- 1cc Syringe (2)
- 18ga x 1" Hypo Needle (2)
- 27ga x 1/2" Hypo Needle
- 30ga x 1/2" Hypo Needle
- Cotton Tip Applicator (4)
- Exam Gloves
- Soaking Tray
- Small Mayo Tray Cover

VS0510 I2 Standard Kit

## STANDARD+DRAPE

- Adult Blade Speculum
- Scleral Marker
- 1cc Syringe (2)
- 18ga x 1" Hypo Needle (2)
- 27ga x 1/2" Hypo Needle
- 30ga x 1/2" Hypo Needle
- Cotton Tip Applicator (4)
- Exam Gloves
- Soaking Tray
- Small Mayo Tray Cover
- Fenestrated Eye Drape

VS0520 I2 Standard + Kit

Email Vortex Surgical at [info@vortexsurgical.com](mailto:info@vortexsurgical.com) to design your own custom injection kit!



# ORDERING INFORMATION:

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Fax: 636-778-4352

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Web: [www.vortexsurgical.com](http://www.vortexsurgical.com)

