Illumination

Last updated 05/15
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1 Synergetics claims no trademark right in the listed names. Listed names of light sources may be trademarks of the following companies: Alcon Laboratories Inc., Bausch & Lomb Inc., D.O.R.C. International b.v., Geuder AG, and Oertli Instrumente AG.
PHOTON\textsuperscript{TM}

The Synergetics\textsuperscript{®} PHOTON revolutionized illumination in vitreoretinal surgery. The PHOTON utilizes a sophisticated system of lenses and filters, combined with a Xenon bulb to provide high levels of illumination through microfibers\textsuperscript{™}. This provides a superior viewing environment, without compromising patient safety.

PHOTON\textsuperscript{TM II}

PHOTON II features all the benefits of the original PHOTON but utilizes a Mercury Vapor bulb instead of a Xenon bulb and provides up to 2 times more illumination through a 300-micron fiber. PHOTON II provides a unique viewing environment, which some surgeons state improves contrast between intraocular structures.

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<th>Ordering Information</th>
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<tr>
<td>Description</td>
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<td>Single Port Adapter (PHOTON\textsuperscript{TM})</td>
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<tr>
<td>PHOTON\textsuperscript{TM II} Single Port Light Source</td>
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<tr>
<td>Single Port Adapter (PHOTON\textsuperscript{TM II})</td>
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</table>
WIDEFIELD ENDOILLUMINATORS  [STERILE, 12/BOX OR STERILE, 6/BOX]

Widefield Diffusion
- Panoramic illumination with a focused center spot
- Available in all PHOTON™ configurations, VersaVT™ and non-PHOTON™ configurations

Shielded Corona Widefield
- Shielded to control glare
- Available in all PHOTON™ configurations

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Refer to reference guide for catalog number information.

MIDFIELD ENDOILLUMINATORS  [STERILE, 12/BOX OR STERILE, 6/BOX]

Midfield
- Available in all PHOTON™ configurations

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FOCAL ENDOILLUMINATORS  [STERILE, 12/BOX OR STERILE, 6/BOX]

Vivid
- 3x brighter than a standard PHOTON™ endoilluminator
- Available in PHOTON™EX, PHOTON™XX and PHOTON™IX configurations
- Not available in PHOTON™II EX and P2-PHOTON™ configurations

Focal
- Available in all PHOTON™ configurations

<table>
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Refer to reference guide for catalog number information.
CHANDELIERS  [STERILE, 12/BOX]

Awh Vivid
• Beveled cannula shaft for glare-free fluid-air exchange
• Adjustable fiber depth to optimize illumination
• Includes a pre-loaded trocar/cannula
• Available in all PHOTON™ configurations

Oshima Vivid
• Adjustable fiber depth to optimize illumination
• Includes a pre-loaded trocar/cannula
• Available in all PHOTON™ configurations

Awh
• Self-retaining
• Sutureless
• Available in all PHOTON™ and non-PHOTON™ configurations

Oshima Dual
• Shadow-free chandelier illumination
• Adjustable fiber depth to optimize illumination
• Includes 2 pre-loaded trocar/cannulas
• Available in all PHOTON™

Cannula System Compatible
• Refer to reference guide for cannula compatibility
• Available in all PHOTON™ configurations

25ga 56.54.25P 27ga 56.54.27P 25ga 56.50.25P/56.50.25 29ga 56.50.29P 25ga 56.52.25P

ILLUMINATED INFUSION CHANDELIERS  [STERILE, 12/BOX]

Standard
• 20ga – Suture in
• 23ga and 25ga – Includes a pre-loaded trocar/cannula
• Available in all PHOTON™ and non-PHOTON™ configurations

High-Flow
• Includes a pre-loaded trocar/cannula
• Available in all PHOTON™ configurations

20ga 56.30P/56.30 23ga 56.30.23P 25ga 56.30.25P 25ga 56.34.25P

MULTIFUNCTIONAL ILLUMINATION

Chow Membrane Pick
• Malleable tip allows for pick profile customization
• Available in all PHOTON™ configurations
• Sterile, 12/Box

2-Port Vitrectomy High-Flow Irrigating Endoilluminator
• Widefield illumination
• Available in a non-PHOTON™ configuration
• Sterile, 12/Box

Aspirating Light Pipe
• Improves bimanual surgical capabilities
• Reduces instrument exchanges
• Available in all PHOTON™ configurations
• Sterile, 12/Box

Microfiber Illuminated Vitrector Sleeve
• Converts a 25ga, Alcon vitrector to a 20ga, illuminated vitrector
• Available in all PHOTON™ configurations
• Sterile, 12/Box

Capone/Rizzo Pick
• Midfield light pattern
• Semi-malleable pick may be adjusted intraocularly
• glare-free finish
• Available in all PHOTON™ configurations
• Sterile, 6/Box

Illuminated Membrane Rake
• Midfield light pattern
• Identify and lift edge of epiretinal membranes
• glare-free finish
• Available in all PHOTON™ configurations
• Sterile, 6/Box

Irrigating Illuminated Capone Pick
• Midfield light pattern
• Standard luer lock connection
• Semi-malleable pick may be adjusted intraocularly
• glare-free finish
• Available in all PHOTON™ configurations
• Sterile, 6/Box
## ILLUMINATION ADAPTERS

**Ordering Information**

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<td>Geuder</td>
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<td>Alcon Constellation [PHOTON™]</td>
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<td>Bausch &amp; Lomb Stellaris PC [PHOTON™]</td>
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1 For use with PHOTON™ (P) endoilluminators

Refer to reference guide for catalog number information.
Talented surgeons want the best tools in the operating room, and Synergetics® consistently offers the high quality tools and products used by top retinal surgeons. Our laser probes are no exception. For years, we have offered the largest selection of laser probes on the market, establishing the Synergetics® brand as a leader in the industry. With our extensive line of high-performance laser probes, developed with years of experience and the guidance of retinal surgeons worldwide, Synergetics® continues the tradition of providing surgeons innovative surgical tools that meet infinite expectations.
## Laser Probes

<table>
<thead>
<tr>
<th>Laser Source to Which Laser Probes Will Connect</th>
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1. Synergetics claims no trademark right in the listed names. Listed names of lasers may be trademarks of the following companies: Iridex Corporation, Alcon Laboratories Inc., Bausch & Lomb Inc., Ellex Medical Pty Ltd., Quantel Medical Inc. and Lumenis Ltd., HGM and Coherent.
2. Requires the use of a PHOTON™, PHOTON™ II, PHOTON™ EX, PHOTON™ EX Light Source or an illumination adapter for alternative light sources.
3. Requires the use of a PHOTON™ or PHOTON™ II or, for 20ga only, a PHOTON™ EX or PHOTON™ EX Light Source.
DIRECTIONAL™ LASER PROBES  [STERILE, 12/BOX]

Original
- Fixed fiber, moving shaft
- Fiber is directed away from actuation button
- Available in 20ga, 23ga and 25ga

Extendable
- Fixed shaft, moving fiber
- Fiber is directed away from actuation button
- Available in 20ga, 23ga and 25ga

Inverted and Extendable
- Fixed shaft, moving fiber
- Fiber is directed toward actuation button
- Available in 20ga, 23ga and 25ga

Directional™ II
- Fixed fiber, moving shaft
- Fiber is directed away from finger wheel
- Available in 20ga, 23ga, 25ga and 27ga

<table>
<thead>
<tr>
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STRAIGHT LASER PROBES  [STERILE, 12/BOX]

Straight
- Direct access to the treatment site
- Available in 20ga, 23ga, 25ga and 27ga

<table>
<thead>
<tr>
<th>Diameter</th>
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</tr>
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<tbody>
<tr>
<td>20ga</td>
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<td>23ga</td>
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<td>25ga</td>
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<td>27ga</td>
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</table>

CURVED LASER PROBES  [STERILE, 12/BOX]

15° Curve
- Stainless steel shaft
- Tapered tip for easy insertion into 20ga sclerotomies
- Available in 20ga

22° Curve
- Stainless steel shaft
- Tapered tip for easy insertion into 20ga sclerotomies
- Available in 20ga

Flexible Tapered
- Stainless steel shaft
- Flexible nitinol tip for easy insertion into, and extraction from, cannulas
- Available in 23ga and 25ga

TruCurve
- Stainless steel shaft
- Degree of curvature varies from 25°-37°, depending on gauge size
- Available in 20ga, 23ga, 25ga and 27ga

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td>20ga</td>
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<tr>
<td>20ga</td>
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<td>25ga</td>
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<td>27ga</td>
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</table>

Refer to reference guide for catalog number information.
ILLUMINATED LASER PROBES  [STERILE, 12/BOX]

**Illuminated Directional™**
- Fixed fibers, moving shaft
- Fiber is directed away from actuation button
- Widefield light pattern
- Available in 20ga, 23ga and 25ga

20ga  55.47
23ga  55.4723P
25ga  55.4725P

**Illuminated Directional™ II**
- Fixed fibers, moving shaft
- Fibers are directed away from finger wheel
- Midfield light pattern
- Ergonomic Directional™ II handle
- Available in 23ga and 25ga

20ga  55.48 23ga  55.48.23P  23ga  55.70.23P  20ga  55.29
23ga  55.47 .23P  25ga  55.48.25P  25ga  55.70.25P  25ga  55.47 .25P

**Flexible Tapered, Illuminated**
- Flexible rotator tip for easy insertion into, and extraction from, cannulas
- Midfield light pattern
- Available in 23ga and 25ga

**Curved, Maxillum™, 37° Curve**
- 6 illumination fibers provide shadow-free illumination
- Focused light pattern
- Available in 20ga

**Curved, Fixed Extended, 37° Curve**
- 2.5 mm extension of laser fiber
- Focused light pattern
- Available in 20ga, 23ga and 25ga

20ga  55.69P  23ga  55.6923P  25ga  55.6925P

**Curved, Fixed Extended, Widefield, 37° Curve**
- 2.5 mm extension of laser fiber
- Widefield light pattern
- Available in 20ga

20ga  55.63P

**Curved, Extendable, 37° Curve**
- Adjustable laser fiber extension from flush to 8mm
- Focused light pattern
- Available in 20ga

20ga  55.69

**Straight, Fixed Extended**
- 2.5 mm extension of laser fiber
- Focused light pattern
- Available in 20ga, 23ga and 25ga

23ga  55.62.23P  25ga  55.62.25P

**Straight, Maxillum™**
- 6 illumination fibers provide shadow-free illumination
- Focused light pattern
- Available in 20ga

20ga  55.22

Refer to reference guide for catalog number information.
Instrumentation
<table>
<thead>
<tr>
<th>Tip Design</th>
<th>Gauge Size</th>
<th>Pinnacle 360°™</th>
<th>Syntrifugal™ Disposable Tips</th>
<th>Premium</th>
<th>Apex™</th>
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<tr>
<td>Eckardt Forceps</td>
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<tr>
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<td>Thomas Horizontal Subretinal Scissors 135°</td>
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<tr>
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<tr>
<td>Microserrated™ Illuminated End Gripping Forceps</td>
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</tr>
</tbody>
</table>
Pinnacle 360° is our line of fully disposable, hand-held retinal surgical instruments. As its name suggests, the Pinnacle 360° product line is at the top of its class in both quality and value. With Pinnacle 360°, surgeons can expect safe, consistent performance on every case.

Pinnacle 360° offers the widest variety of disposable tip options.

Additional benefits include:

- 360° actuation to approach the retina from any angle
- Ergonomic design to reduce fatigue
- Color coded handles for gauge identification

Available in 18ga, 19ga, 20ga, 23ga, 25ga and 27ga
The Syntrifugal line provides surgeons with the best of both worlds — a reusable titanium handle with a disposable tip. Surgeons enjoy consistent tactile feel with the freedom to choose from a comprehensive selection of disposable tips.

Additional benefits include:

- Large and small handle options
- Handle design that allows the tip to rotate 360°

Disposable tips available in 20ga, 23ga, 25ga and 27ga.
## ILM FORCEPS  [STERILE, 5/BOX]

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Available Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fine Tip Eckardt</strong></td>
<td>Thinner than standard Eckardt provides better view and positioning with similar grasping characteristics.</td>
<td>Available in Pinnacle 360™™ and Syntrifugal™™ handle configurations. Available in 23ga and 25ga.</td>
</tr>
</tbody>
</table>

### HEAVY MEMBRANE FORCEPS  [STERILE, 5/BOX]

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Available Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microserrated™ End-Grasping</strong></td>
<td>Thinner than the standard end-grasping provides better view and microserrations™™ provide a superior grasping surface.</td>
<td>Available in Pinnacle 360™™ handle configuration. Available in 23ga and 25ga.</td>
</tr>
<tr>
<td><strong>Morris/Witherspoon Fullview ILM</strong></td>
<td>Curved bottom conforms to the epiretinal surface and small cutout offers unobstructed view.</td>
<td>Available in Syntrifugal™™ handle configuration. Available in 20ga and 25ga.</td>
</tr>
</tbody>
</table>

### DUAL PURPOSE FORCEPS  [STERILE, 5/BOX]

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Available Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microserrated™ Tewari Omniclip</strong></td>
<td>Fine enough for ILM work, but sturdy enough for ERM and PVR membranes.</td>
<td>Available in Pinnacle 360™™ and Syntrifugal™™ handle configurations. Available in 23ga and 25ga.</td>
</tr>
</tbody>
</table>

Refer to reference guide for catalog number information.
**MYOPIC FORCEPS [STERILE, 5/BOX]**

- **Fine Tip Eckardt**
  - Thinner tip than standard Eckardt provides better view and positioning with similar grasping characteristics
  - Available in Pinnacle 360°™ handle configuration
  - 37mm working length
  - Available in 23ga and 25ga

- **Microserrated™ Tewari Omnicep**
  - Fine enough for ILM work, but sturdy enough for ERM and PVR membranes
  - Available in Pinnacle 360°™ handle configuration
  - 37mm working length
  - Available in 23ga and 25ga

**FOREIGN BODY [STERILE, 5/BOX]**

- **Joseph/Meredith BB Removal**
  - Specifically designed for grasping all standard BBs without slippage up to 4.5 mm
  - Available in Pinnacle 360°™ handle configuration
  - Available in 18ga

- **Forceps**
  - Jaws excellent for grasping large, irregularly shaped foreign bodies
  - Available in Pinnacle 360°™ handle configuration
  - Available in 19ga

- **Magnet**
  - Designed for removal of iron or steel foreign bodies
  - Available in Pinnacle 360°™ handle configuration
  - Available in 18ga

**PICK FORCEPS [STERILE, 5/BOX]**

- **Ducournau Serrated**
  - Unique tip provides pick/serrated jaw for superior membrane removal
  - Available in Syntrifugal™ handle configuration
  - Available in 20ga

- **Pick**
  - Great gripping platform and superior functionality with integrated pick
  - Available in Pinnacle 360°™ handle configuration
  - Available in 20ga, 23ga and 25ga

- **Horizontal Curved**
  - Curved heel minimizes inadvertent contact with retina and conforms to eye
  - Available in Pinnacle 360°™ handle configurations
  - Available in 20ga, 23ga and 25ga

- **Vertical**
  - Curved heel minimizes inadvertent contact with retina and conforms to eye
  - Available in Pinnacle 360°™ handle configuration
  - Available in 20ga, 23ga and 25ga

**SCISSORS [STERILE, 5/BOX]**

- **Fine Tip Eckardt**
  - Thinner tip than standard Eckardt provides better view and positioning with similar grasping characteristics
  - Available in Pinnacle 360°™ handle configuration
  - 37mm working length
  - Available in 23ga and 25ga

- **Microserrated™ Tewari Omnicep**
  - Fine enough for ILM work, but sturdy enough for ERM and PVR membranes
  - Available in Pinnacle 360°™ handle configuration
  - 37mm working length
  - Available in 23ga and 25ga

Refer to reference guide for catalog number information.
Reusable Options
Premium Instrumentation

Our fully reusable Premium line delivers unparalleled consistency and performance. Surgeons enjoy the familiar comfort and reliability of working with the same superior set of tools on every case.

Additional benefits include:

- Large and small handle options
- Blackened stainless steel tips to reduce glare
- Etched serial numbers for quick and easy identification
- Linear closure
- Microserrations™ offered for select tip styles

Tips available in 18ga, 19ga, 20ga, 23ga and 25ga.
Our Apex line is an excellent option for surgeons who prefer the benefits of reusable instrumentation, but at a more conservative price point. Apex instruments provide surgeons with a single-piece titanium handle and access to our comprehensive line of reusable tips at a lower cost than our Premium line.

Additional benefits include:

- Solid, one-piece, titanium handle design
- Etched serial numbers for quick and easy identification
- Linear closure

Tips available in 20ga, 23ga and 25ga.
HEAVY MEMBRANE FORCEPS

**End Gripping**
- Broad platforms useful on all types of membranes
- Available in Premium and Apex™ handle configurations
- Available in 20ga

**Pyramid Tip**
- Pointed tip for fine grasping and a broad base for coarse grasping
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

**Serrated Jaw**
- Blunt, atraumatic serrations prevent shredding tissue
- Available in Premium and Apex™ handle configurations
- Available in 20ga

ILM FORCEPS

**Fine Tip Eckardt**
- Thinner tip than standard Eckardt provides better view with similar grasping characteristics
- Available in Premium and Apex™ handle configurations
- Available in 23ga and 25ga

**Eckardt**
- Nail-like platforms and microserrations for precise, optimum grasping; excellent for ILM pinch and peel technique
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

**Tano Asymmetrical Micro**
- Excellent for fine membranes and more aggressive membranes of diabetic retinopathy
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

**Tano Asymmetrical Peeling**
- Larger jaws minimize shredding
- Available in Premium and Apex™ handle configurations
- Available in 20ga

**Morris/Witherspoon Fullview ILM**
- Curved bottom conforms to the epiretinal surface
- Available in Premium and Apex™ handle configurations
- Available in 20ga and 25ga

**Pincer End Grasping**
- Precise grasping while providing optimum viewing
- Available in Premium and Apex™ handle configurations
- Available in 20ga and 23ga

**Pointed Micro**
- Ultra-fine pointed tips are ideal for stripping delicate membranes
- Available in Premium and Apex™ handle configurations
- Available in 20ga and 23ga

**Lambert ILM**
- No platforms at tips allow grasping force to be spread over entire length of jaws, eliminating localized pressure and membrane shredding
- Available in Premium handle configuration
- Available in 20ga

**Tano Asymmetrical Peeling**
- Larger jaws minimize shredding
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Refer to reference guide for catalog number information.
**DUAL PURPOSE FORCEPS**

**FOREIGN BODY**

Apte Corset
- Wide platform allows for removal of membranes in a single maneuver without traumatizing the retina
- Available in Premium and Apex™ handle configurations
- Available in 23ga and 25ga

Joseph/Meredith BB Removal
- Specifically designed for grasping all standard BBs without slippage
- Available in Premium handle configuration
- Available in 18ga

Foreign Body
- Jaws excellent for grasping large, irregularly shaped foreign bodies
- Available in Premium handle configuration
- Available in 18ga

Magnet
- Designed for removal of iron or steel foreign bodies
- Will pick up a steel ball up to 16mm in diameter
- Available in Premium handle configuration
- Available in 19ga

---

**PICK FORCEPS**

De Juan / Tano Serrated Pick
- Effective at lifting and peeling large membranes
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Ducournau Serrated
- Unique tip provides pick/serrated jaw for superior membrane removal
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Pick
- Great gripping platform and superior functionality with integrated pick
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

Vertical Forceps
- Dual function use as a forceps and spatula
- Available in Premium handle configuration
- Available in 23ga

---

**SCISSORS**

Horizontal 1.3mm Blades 55°
- Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Horizontal 2.5mm Blades 55°
- Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Horizontal Large Curved
- Optimal curve for epiretinal membrane delamination
- Available in Premium and Apex™ handle configurations
- Available in 20ga

Horizontal Medium Curved
- Curved back to minimize “heeling in” – safe on surface of retina
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

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Refer to reference guide for catalog number information.
SCISSORS (cont.)

**Microserrated™ Horizontal Scissors Medium Curved**
- Microserrations secure membrane during cutting to reduce expulsions
- Available in Premium handle configuration
- Available in 20ga, 23ga and 25ga

**Horizontal Small Curved**
- Smaller curve size makes it excellent for the anterior periphery during PVR
- Available in Premium and Apex™ handle configurations
- Available in 20ga

**Morris Vertical**
- Curved heel minimizes inadvertent contact with retina and conforms to eye
- Available in Premium and Apex™ handle configurations
- Available in 20ga, 23ga and 25ga

**Straight**
- Ideally suited for releasing traction on severe retinal folds from the opposite side
- Available in Premium and Apex™ handle configurations
- Available in 20ga and 23ga

**Sweeper 1.7mm 55°**
- Single moving sweeping blade at an optimum angle for epiretinal membrane stripping
- Available in Premium handle configuration
- Available in 20ga

**Tano Vertical**
- Profile allows for better segmentation performance
- Available in Premium and Apex™ handle configurations
- Available in 20ga

**Vertical**
- Classic vertical scissors for segmentation of PDR and PVR membranes
- Available in Premium and Apex™ handle configurations
- Available in 20ga

**Witherspoon Vertical**
- Unique blade configuration allows membrane to remain on lower blade when cutting, eliminating repeat capturing of membrane
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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*Refer to reference guide for catalog number information.*
SUBRETINAL INSTRUMENTS

Thomas Horizontal Forceps
- Enhanced gripping with horizontal profile to minimize subretinal trauma
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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Thomas Vertical Forceps
- Effective in subfoveal nets post laser treatment
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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Thomas Horizontal Scissors 135°
- Blades move toward the center for better control with minimal tissue expulsion
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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Thomas Vertical Scissors
- Single moving blade minimizes retinotomy enlargement
- Available in Apex™ handle configuration
- Available in 20ga

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Lambert Horizontal Sweeper Scissors
- Single moving blade minimizes retinotomy enlargement
- Available in Premium handle configuration
- Available in 20ga

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ILLUMINATED INSTRUMENTS

Illuminated End Gripping Forceps
- Features large grasping platforms to prevent shredding of tissue
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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Illuminated Microserrated™ End Gripping Forceps
- Microserrations ensure maximum grasping
- Available in Premium handle configuration
- Available in 20ga

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Illuminated Micro Forceps
- Pointed, fine platform tips for ultimate visibility
- Available in Premium and Apex™ handle configurations
- Available in 20ga

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Illuminated Horizontal Scissors
- Curved back to minimize "heeling in" — safe on surface of retina
- Available in straight and small curved
- Available in Premium and Apex™ handle configurations
- Available in 20ga

| 20ga | 3522 | 3502A |

Refer to reference guide for catalog number information.
SCLERAL MARKERS

Awh Sutureless
- 51.20
- Marked at 3mm and 4mm

Chow
- 51.25
- Marked at 3mm and 4mm

Specifically designed to stabilize cannula

REUSABLE PICKS AND SPATULAS

Rice ILM Elevator 127°
- 20.02, 20.02.23 and 20.02.25
- 42ga
- 10mm at tip
- Available in 20ga, 23ga and 25ga

Awh Serrated Pick 135°
- 20.41, 20.41.23 and 20.41.25
- 30ga
- 30mm at tip
- Available in 20ga, 23ga and 25ga

Michel's Hook 90°
- 28.21
- 36ga
- 20mm at tip
- Available in 20ga

Thomas Hyloid Lifter
- 20.03
- 42ga
- 10mm at tip
- Available in 20ga

Michel's Spatula 90°
- 28.22
- 22ga
- 7mm at tip
- Available in 20ga

Shiraga Pick, 110°
- 20.31
- 33ga
- 20mm at tip
- Available in 20ga

Membrane Pick 110°, 130°, 150°
- 28.01, 28.02 and 28.03
- 27ga
- 41mm at tip
- Available in 20ga

Morris Pick
- 20.51
- 33ga
- 20mm at tip
- Available in 20ga

Membrane Peeler, Spherical Tip 110°
- 28.04
- 30ga
- 30mm at tip
- Available in 20ga

Thomas Subretinal Perforator/Spatula 36ga 131°
- 28.30
- 24ga
- 10mm at tip
- Available in 20ga

Irrigating Spatula 120°
- 28.30
- 24ga
- .55mm at tip
- Available in 20ga

Thomas Blunt 36ga Subretinal Perforator Spatula 131°
- 20.30
- 36ga
- 20mm at tip
- Available in 20ga

Michel's Sutureless
- 51.45
- Marked at 3mm and 4mm

Marked at 3mm and 4mm

SCLERAL MARKERS

Awh Horseshoe
- 51.45
- Marked at 3mm and 4mm
REUSABLE PICKS AND SPATULAS (Cont.)

Lewis 33ga Subretinal Perforator 90°
• 26.01
  • 36ga
  • 20mm at tip
  • Available in 20ga

Lewis 33ga Subretinal Perforator 135°
• 27.01
  • 36ga
  • 20mm at tip
  • Available in 20ga

Rounded Tip Spatula 140°
• 28.07
  • Available in 20ga

Membrane Rake, Flat Tip 140°
• 28.05 and 28.06
  • Available in flat or curved tip
  • Available in 20ga

REUSABLE CANNULAS AND NEEDLES

Reflex Handle
• 31.00
  • For use with products 30.01-30.09 and 30.76

Blunt Extrusion Needle
• 30.01
  • Available in 20ga

Tapered Blunt Extrusion Needle
• 30.02
  • Tapers to 27ga
  • 40mm tip
  • Available in 20ga

Brush Cannula Tip, Straight
• 30.06
  • Available in 20ga

Brush Cannula Tip, Curved
• 30.07
  • Available in 20ga

Soft Tip Cannula
• 30.08
  • Available in 20ga

Resnick Subretinal Fluid Drainage Needle
• 30.09
  • 25ga
  • 2.5mm long 3mm bevel
  • Available in 25ga

Metal Locking Luer-Hub Needle
• With products in this section

Replacement Reflux Reservoir
• 31.01 — 2/box, 31.02 — 10/bx
REUSABLE CANNULAS AND NEEDLES (Cont.)

Autoclavable Handle with Slide

Universal Soft Tip Needle
- 30.10 and 30.10.23
- Available in 20ga and 23ga
- 6/box

DISPOSABLE CANNULAS AND NEEDLES

Rigid Micro Injection Cannula, Straight
- 12.02 and 12.03
- 10mm at tip
- Black, disposable handle
- Available in 20ga
- 5/box

Rigid Micro Injection Cannula, Angled
- 12.12 and 12.13
- 10mm at tip
- Black, disposable handle
- Available in 20ga
- 5/box

De Juan/Awh Subretinal Injection
- 12.03.25
- 41ga tip
- 10mm at tip
- Available in 25ga
- 5/box

Soft Tip Cannula
- 30.08.23, 30.08.25 and 30.08.27
- Available in 23ga, 25ga and 27ga
- 6/box

Slotted Soft Tip Cannula
- 30.18.23 and 30.18.25
- Available in 23ga and 25ga
- 6/box

Vitreoretinal Soft Tip
- 30.76
- For use with 3100 handle
- 31mm tubing length
- 3mm flexible silicone
- Available in 20ga
- 10/box

Transconjunctival Chow Silicone Oil Injection Cannula
- 30.80.25
- Available in 25ga
- 6/box
INSTRUMENT TRAYS

Small
- 28.25
- 6” x 2” x .75”
- 15.2cm x 5.1cm x 1.9cm
- Holds 2 picks or 1 instrument

Medium
- 23102
- 10” x 6” x .75”
- 25.4cm x 15.2cm x 1.9cm
- Holds 10 picks or 6 instruments

Large
- 23101
- 15” x 10” x .75”
- 38.1cm x 25.4cm x 1.9cm
- Holds 25 instruments

Diamond Knife
- 23103
- 7.5” x 2.6” x .75”
- 19.1cm x 3.8cm x 1.9cm
- Holds 1 diamond knife

All Synergetics® tip protectors are autoclavable and will protect your instrument during storage and sterilization.

TIP PROTECTORS

Tip Protector, Handled Cannula
- 34.70
- Fits Synergetics® reusable handled cannula

Tip Protector, Handled Picks
- 34.71
- Fits Synergetics® handled picks

Tip Protector for Picks, Rakes and Spatulas
- 34.72
- Fits Synergetics® handled picks

Tip Protector, Split, Universal
- 34.74
- Fits Synergetics® Large and Small Squeeze handles

Tip Protector, MPC
- 34.75
- Large design to fit and protect MPC

Tip Protector, DORC
- 34.76
- Replacement tip protector for your DORC instruments

Tip Protector, Grieshaber (Alcon)
- 34.77
- Replacement tip protector for your Grieshaber instruments

Tip Protector, Apex™
- 34.78
- Doubles as cleaning luer and tip protector for the Apex™ handle

LUERS AND PLUGS

Cleaning Luer
- 34.80
- For Synergetics® premium instruments

SYNERGETICS® REPAIR SERVICE

For ophthalmic instrument repairs, call our Synergetics® specialist to obtain an RMA number. Our outstanding service department offers repair service for a wide array of surgical instrumentation.

For more information or repair service, please call 636-794-5052
For after-hours emergency service, please call 800-727-6771
Special Products
Synergetics® has packaged everything you need for office injections into one complete, sterilized I-PACK. The I-PACK will save you hours of ordering time, reduce and organize your inventory, and reduce preparation time since everything you need is conveniently packaged together. The handy plastic tray also serves as a reservoir that you can use for your povidone-iodine solution. Simply pour the solution into the compartment with the speculum, where it can be used for both your speculum and for dipping cotton swabs. The two additional compartments can be used for discarded vials, swabs, and needles, making cleanup quick and easy.

Benefits:

- **SAVE ORDERING TIME**: Affordable, one-stop, quick ordering for all of your office injection requirements.
- **CONTROL INVENTORY**: With only the I-PACK to monitor, keeping track of inventory has never been so easy.
- **REDUCE PREPARATION TIME**: No more fumbling around, trying to locate misplaced speculums. Everything you need is contained in a ready-to-use, seal-tight, sterile package.
### I-PACK™ [STERILE, 10/BOX]

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KNIVES  [STERILE, 5/BOX]

Opremcak BRVO
- $52.00
- Super-thin knife, perfect for sheathotomy
- Available in 20ga

Opremcak CRVO
- $52.20
- Ideal for relaxing scleral ring, cribriform plate, and sclera of optic disk during radial optic neurotomy
- Available in 20ga

IRIS RETRACTORS

Disposable
- 40.02-2 and 40.02-6
- 5 retractors/set in case one is lost or damaged
- Sterile, 2/box or Sterile, 6/box configurations

VISCO DISSECTOR

Hubbard Visco Dissector
- $12.06.25
- Injects viscoelastic for delaminating large membranes from the retina
- Available in 25ga (28ga tip)
- Sterile, 6/Box

DISPOSABLE LENSES  [STERILE, 10/BOX]

Flat
- VFD
  - Field of view: 36°
  - Image magnification: 1.0x

Bi-Concave
- V8CD
  - Field of view: 25°
  - Image magnification: 0.8x

Magnifying
- VMD
  - Field of view: 30°
  - Image magnification: 1.5x

Widefield
- VWF0
  - Field of view: 48°
  - Image magnification: 0.5x

30° Prism
- V30PD
  - Field of view: 33° (offset 30°)
  - Image magnification: 1.0x

Flat, SSV
- VFLATSSV0
  - Field of view: 30°
  - Image magnification: 0.92x
Pediatric vitreoretinal disorders provide unique challenges for the retina specialist. To address these challenges, surgeons are currently asked to use instrumentation designed for adult eyes. Unfortunately, this one size fits all approach is not always efficient in achieving the best possible outcome. Synergetics® partnered with Drs. Antonio Capone, Jr., Kimberly Drenser, and Michael Trese of Detroit, Michigan, to help fill this void in the market. Numerous design variables were considered, including gauge size, illumination, irrigation, intra-ocular access, and dissection. The versatility of 23ga was selected, as it provides access to small dissection spaces in the far periphery while also allowing for the robust instrumentation that is needed for the dense, proliferative tissue associated with many pediatric diseases.

Multifunctional illumination, novel forceps, and port entry systems for two and three port approaches are now available (reference table above).
Stealth Port Entry System
- 58.23-3MM
- 3mm shaft length
- Stainless steel cannulas
- Available in 23ga
- 58.23-3MMV
- 3mm shaft length
- Stainless steel cannulas with removable valve cap
- Available in 23ga and 25ga

Infusing Instrument Cannulas
- 58.2023-3MM
- 3mm shaft length
- Stainless steel cannulas
- Allows for two port PPV via 20ga sclerotomy and 23ga instrumentation

Vertical Forceps
- 11.41.23
- Dual function use as a forceps and spatula
- Available in reusable Premium handle configuration
- Available in 23ga

Microserrated™ Snub Nosed
- 39.18.23PN
- Blunt tip profile, combined with tip cleavage, allows tissue to be engaged in a fashion analogous to two rolling pins moving toward each other
- Available in disposable Pinnacle 360™ handle configuration
- Available in 23ga

MULTIFUNCTIONAL ILLUMINATION [STERILE, 6/BOX, UNLESS NOTED]

Capone/Rizzo Pick
- 56.45.23P
- Midfield light pattern
- Semi-malleable pick may be adjusted intraocularly
- Glare-free finish
- Available in all PHOTON™ configurations
- Available in 23ga

Illuminated Membrane Rake
- 56.46.23P
- Midfield light pattern
- Identify and lift edge of epiretinal membranes
- Glare-free finish
- Available in all PHOTON™ configurations
- Available in 23ga

2-Port Vitrectomy High-Flow Irrigating Endoilluminator
- 56.34
- Widefield illumination
- Available in non-PHOTON™ configuration
- Sterile, 12/Box
- Available in 20ga

Irrigating Illuminated Capone Pick
- 56.44P
- Midfield light pattern
- Semi-malleable pick may be adjusted intraocularly
- Glare-free finish
- Available in all PHOTON™ configurations
- Available in 20ga

IRRIGATING SPATULAS

Irrigating Spatula, 120°
- 28.30
- 24ga (.55mm) at tip
- .55mm at tip
- Reusable
- Available in 20ga

Irrigating Trese Spatula
- 28.30.23
- Hand-crafted tip geometry is ideal for dissection
- Glare-free finish
- Standard luer lock connection
- Reusable
- Non-cannula compatible design allows for a longer platform
- Available in 23ga

Irrigating Trese Spatula
- D28.30.23
- Cannula compatible design allows for dissection without the need for scleral sutures
- Glare free finish
- Standard luer lock connection
- Sterile, single use, 6/Box
- Available in 23ga

SCISSORS [STERILE, 5/BOX]

Vertical
- 10.24.23PN
- Curved heel minimizes inadvertent contact with retina and conforms to eye
- Available in disposable Pinnacle 360™ handle configuration
- Available in 20ga, 23ga and 25ga
DDMS™ Diamond Dusted Membrane Scrapers

**Tano**
- 20.04, 20.04.23 and 20.04.25S
- Available in 20ga, 23ga and 25ga
- 5/Box

**Stiff Tano**
- 20.07
- Available in 20ga
- 5/Box

**Retractable Tano**
- 2016, 2016.23 and 2016.25
- Available in 20ga, 23ga and 25ga
- 20ga — 3/Box, 23ga and 25ga — 5/Box

**Adjustable Tano with Pick**
- 2018
- Available in 20ga
- 3/Box

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**DISPOSABLE INFUSION CANNULAS**

**High Pressure Rated 4mm Tip**
- 30.41
- High pressure rated up to 100psi injection pressure
- Available in 20ga
- Sterile, 5/Box
- Für Silikon geeignet