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Cleaning

Repairs

Warranty & Policies

Contact Information
Synergetics™ offers the largest selection of quality laser probes in retinal surgery. Our highly polished fibers produce a consistent spot and burn. We use only the finest materials and follow stringent quality control guidelines. A 20-point checklist ensures that only top-quality products make it into your O.R.

Whether you are looking for a straight, curved, illuminated, aspirating, or the popular Directional Laser Probe™, be assured that you will find what you need at Synergetics. Quality products, combined with unparalleled customer service, make Synergetics™ the right choice for laser probes.

Laser Probe Compatibility
Synergetics™ Laser Probe connectors are designed to work with the laser signified below.

Adapters & Fiber to Fiber Compatibility

<table>
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<th>54.06</th>
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FIBER TO FIBER COMPATIBILITY

- **SL532FF** - Connects standard Synergetics™ Laser Probes to Quantel Vitrus
- **SL532FF-5** - Connects standard Synergetics™ Laser Probes to Vitra/Supra
- **SL532FF-8** - Connects standard Synergetics™ Laser Probes to Lumenis
Directional Laser Probe Features

**DIRECTIONAL LASER PROBES**

- 55.26\(2\), 55.26.23\(2\), 55.26.25\(2\)
- 55.26.25\(2\)
- 55.26.23TX\(2\), 55.26.23TX\(2\), 55.26.25TX\(2\)
- 55.26.25\(2\)

Button is forward, shaft is in the straight position
Button is pulled back, in effect pulling the shaft back and exposing the curve
Fiber curves downward

**EXTENDABLE DIRECTIONAL LASER PROBES**

- 55.26E\(2\), 55.26.23E\(2\)

Button is back, shaft is in the straight position
Button is pushed forward driving the fiber forward and exposing the curve
Fiber curves downward

**INVERTED DIRECTIONAL LASER PROBES**

- 55.36\(2\), 55.36.23\(2\), 55.36.25\(2\)
- 55.36.25E\(2\)
- 55.36ETX\(2\), 55.36.23ETX\(2\), 55.36.25ETX\(2\)
- 55.36.25\(2\)

Button is back, shaft is in the straight position
Button is pushed forward driving the fiber forward and exposing the curve
Fiber curves upward

(Key signifies the specific laser the Synergics™ Laser Probe is compatible with)
**LASER PROBES**

**Directional**

**DIRECTIONAL LASER PROBE™**

55.26
55.26.23
55.26.25
55.26L
55.26.23L
55.26.25L
55.26.23E
55.26.25E
55.26.23ETX
55.26.25ETX
Stationary fiber with moving shaft

12 per box

**EXTENDABLE DIRECTIONAL LASER PROBE™**

55.26E
55.26.23E
Fiber advances forward rather than shaft

12 per box

**INVERTED DIRECTIONAL LASER PROBE™**

55.36E
55.36.23E
55.36.25E
55.36.23ETX
55.36.25ETX
Fiber extends towards the actuation button

12 per box

**Straight**

**STRAIGHT LASER PROBE**

55.21
55.21.23
55.21.25
55.21L
55.21.23L
55.21.25L
55.21.23ETX
55.21.25ETX

12 per box

**ASPIRATING LASER PROBE**

55.24
Both active and passive

12 per box

**SOFT TIP ASPIRATING LASER PROBE**

55.28
Both active and passive

12 per box

(Key signifies the specific laser the Synergica™ Laser Probe is compatible with)
Curved Illuminated

**CURVED MAXIMUM LASER PROBE, 37° CURVE**

- 55.29
- 55.29L

No fiber extensions
6 illumination fibers provide shadows free illumination

12 per box

**CURVED ILLUMINATED EXTENDABLE LASER PROBE, 37° CURVE**

- 55.49

19.5g
Laser fiber adjusts up to 8mm to control spot size

12 per box

**CURVED FIXED EXTENDED WIDEFIELD ILLUMINATED LASER PROBE, 37° CURVE**

- 55.63P

2.5mm extended laser fiber

12 per box

Directional Illuminated

**DIRECTIONAL ILLUMINATED LASER PROBE**

- 55.47P
- 55.47.23P
- 55.47.25P

12 per box

Bullseye™ Laser Probes

Utilizing the PHOTON™ passive laser path, Bullseye™ Laser Probes provide coaxial laser and illumination with a single connection. Simply connect your laser to the PHOTON™ or P2-PHOTON™ with the correct PIC cable and you are able to achieve both light and illumination down a single fiber. The benefit is increasing your options in illuminated laser probes while reducing the number of connections.

**BULLSEYE™ LASER PROBES**

- 55.21P – 20ga Straight Laser Probe
- 55.21.23P – 23ga Straight Laser Probe
- 55.21.25P – 25ga Straight Laser Probe
- 55.21.25PS – 25ga Stiff Straight Laser Probe
- 55.26P – 20ga Directional Laser Probe™
- 55.36.23EP – 23ga Inverted Directional Laser Probe™

12 per box

(Key signifies the specific laser the Synergistic™ Laser Probe is compatible with)
Synergetics™ offers our customers the most extensive line of endoilluminators on the market. Our exacting standards and conscientious quality control department ensure that every Synergetics™ product upholds Synergetics™ reputation for quality and dependability. Our ability to deliver large amounts of light through very small fibers allows us to provide you with a highly innovative selection of light pipes, chandeliers, illuminated instruments and illuminated infusion chandeliers. We provide you the latest in cutting-edge technology so you not only have good light, but light where you need it.
Light Sources

The Synergetics™ PHOTON™ revolutionized illumination in vitreoretinal surgery. As the first company to develop a high powered Xenon light source, Synergetics™ was able to deliver light into the eye at levels never seen before. The increased levels of illumination allow surgeons to perform safer, more efficient procedures. The key to the success of the PHOTON™ is its ability to deliver light at high levels while maintaining the up-most levels of safety. There is a sophisticated system of filters and mirrors built into the PHOTON™ that allow it to provide the brightest and safest light down very small fibers.

PHOTON™
- Brightest Xenon light source available
- Built with a system of filters to ensure safety
- Powers an extensive array of illumination accessories

P2-PHOTON™
- 100W mercury vapor light source
- Twice as much usable light as a conventional Xenon light source
- Utilizes a safer spectrum of light
- Largest line of illumination accessories

Available in single or dual port configurations
Color - PHOTON™
The combination of the Xenon lamp and filters in the PHOTON™ offer a favorable white light appearance while maintaining the intensity.

Brighter - P2-PHOTON™
The spectrum of our mercury vapor lamp matches closely with the photopic response of the eye offering a view far brighter and safer than any light source available.

Safer - P2-PHOTON™
2200 lumens per hazard watt make the P2-PHOTON™ one of the safest light sources available today. (PHOTON™ 1900 lumens/hazard watt; competitive xenon 1150 lumens/hazard watt.)

Better Contrast - P2-PHOTON™
The light from the mercury vapor lamp in the P2-PHOTON™ enhances the contrast between structures allowing quick and easy acquisition of membranes—a great alternative to the use of ICG.

More Options - PHOTON™ and P2-PHOTON™
Over 60 endoilluminators and illuminated laser probes are currently available.

Quantel Supra & Vitra 532nm Laser Integration - PHOTON™ and P2-PHOTON™
PHOTON™ has now been integrated into Vitra and Supra software. By pressing the PHOTON™ button on the touch screen of the Vitra and Supra, you’ll experience maximum laser efficiency when using any of the PHOTON™ Bullseye™ illuminated laser probes.

New P2-PHOTON™ Disposables
Most current PHOTON™ disposables can be used on the P2-PHOTON™ with improved performance. New P2-PHOTON™ specific disposables maximize the light with even smaller microfibers.

Lamp Life - P2-PHOTON™
The meter notifies you when your lamp needs to be changed.

Microfiber™ Technology
The PHOTON™ light source set the standard in retinal surgery when it proved that bright light and safe light were not mutually exclusive. By combining Synergetics’™ innovative filter system with Microfiber™ technology, we were able to increase lumen output yet substantially reduce the risk of phototoxicity.

Upgrades Available
Each PHOTON™ is upgradeable to a P2-PHOTON™.
Replacement Fuses & Lamps

REPLACEMENT FUSE

PFUSE2.0
2 amp fuse for 100-120 VAC

PFUSE5.0
5 amp fuse for 230 VAC

REPLACEMENT LAMP

PLAMP - for PHOTON™ (Xenon)
P2-PLAMP - for P2-PHOTON™ (Mercury Vapor)

Interconnect Cables (PIC)

PIC CABLES

PIC-1
For use with Iridex Oculight GL

PIC-2
For use with Alcon/Lightmedex

PIC-3
For use with Coherent

PIC-4
For use with Quantel Viridia

PIC-5
For use with Zeiss

PIC-6
For use with HGM

PIC-7
For use with Nidek

PIC-8
For use with Lumenis Spectra

PIC-9
For use with Quantel Viridia

PIC Cables are required to connect your PHOTON™ or P2-PHOTON™ to your laser to utilize PHOTON™ Bulbeye™ laser probes. Select the PIC cable that corresponds to the laser that you are currently using.

Singleport Adapters

SINGLEPORT ADAPTER

PSPA - Singleport Adapter, PHOTON™
- Replacement for singleport adapter on PHOTON™, PHOTON-IX or PHOTON-2X models
- Accepts PHOTON™ compatible endoilluminator

PSPA-P2 - Singleport Adapter, P2-PHOTON™
- Replacement for singleport adapter on P2-PHOTON™, P2-PHOTON-IX, and P2-PHOTON-2X models
- Accepts PHOTON™ and P2-PHOTON™ specific endoilluminators

PSPA-A - PHOTON™ Single Port Adapter, Alcon
- Enables user to employ Alcon endoilluminators on any PHOTON™ or P2-PHOTON™ unit

PSPA-Y - PHOTON™ Single Port Adapter, Yellow
- May be used in lieu of PSPA on PHOTON™ models
- Increases safety by 800% yet allows up to 300% more light to pass through
- Accepts Synergistic™ standard yellow sheath probes
Endoilluminator Light Patterns

**FOCAL ENDOILLUMINATORS**

- **65° Pattern**
  - Focal Light A: 12mm
  - Diffuse Light B: N/A
  - 15° bevel for easy insertion
  - Focused illumination spot

**CORONA ENDOILLUMINATORS**

- **75° Pattern**
  - Focal Light A: 6mm
  - Diffuse Light B: 18mm
  - Coned tip for consistent panoramic viewing
  - Features a glare shield

**MIDFIELD ENDOILLUMINATORS**

- **90° Pattern**
  - Focal Light A: 10mm
  - Diffuse Light B: 21mm
  - More diffused light than standard light pipes
  - Furnishes direct light improving view of membranes and vitreous

**WIDEFIELD ENDOILLUMINATORS**

- **135° Pattern**
  - Focal Light A: 10mm
  - Diffuse Light B: 46mm
  - Glare-free, panoramic illumination with a focused center spot
  - 20° bevel for ease of insertion and glare protection
**Widefield**

**WIDEFIELD ENDOILLUMINATOR**

- 56.01

*12 per box*

**“THE CORONA” SHIELDED WIDEFIELD ENDOILLUMINATOR**

- 56.12
- 56.12P
- 56.12.23P
- 56.12.25P

*Shielded to control glare
12 per box*

**WIDEFIELD DIFFUSION ENDOILLUMINATOR**

- 56.21
- 56.21.23P
- 56.21P
- 56.21.23PS

*Panoramic illumination with a focused centerspot
12 per box*

**Midfield**

**MIDFIELD ENDOILLUMINATOR**

- 56.22P
- 56.22.23P
- 56.22.25P

*For use with PHOTON™ and P2-PHOTON™ only
12 per box*

**Dual Purpose**

**ADJUSTABLE LIGHT PIPE**

- 56.25P
- 56.25.23P

*Focused or widefield light with the slide of a button
For use with PHOTON™ and P2-PHOTON™ only
12 per box*

**Adjustable Output Patterns**

- 70° pattern
- 90° pattern
- 135° pattern

**Focal Position (button pushed back)**

**Midfield Position (button halfway)**

**Widefield Position (button pushed forward)**

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**REQUIRED ADAPTERS:** 57.xx series adapters are required for all non-PHOTON™ Family endoilluminators. Refer to the Adapter listing in this catalog for the proper adapter for your light source. PHOTON™ Family endoilluminators are identifiable by the ‘P’ at the end of the catalog number. All PHOTON™ endoilluminators require a PSPA or PSPA-Y adapter. Endoilluminators to be used on a P2-PHOTON™ require a PSPA-P2 adapter. PSPA and PSPA-P2 adapters are supplied with PHOTON™ and P2-PHOTON™.
Focal

**ENDOILLUMINATOR**
56.02
56.02.23
56.02.25
56.02P
56.02.23P
56.02.25P
56.02.27P

12 per box

**3-FUNCTION TISSUE MANIPULATOR**
56.09
Focal illumination, bi-polar, and aspiration

6 per box

**2-PORT VITRECTOMY (TPV™) HIGH FLOW IRRIGATING ENDOILLUMINATOR**
56.14
20ga. 1.07mm
Retractable illumination fiber

Designed for ROP surgery
12 per box

**VIVID ENDOILLUMINATOR**
56.20P
56.20.23P
56.20.25P
3x brighter than standard PHOTON™ light pipe

Not for use on P2-PHOTON™
12 per box

Chandeliers

**AWH CHANDELIER**
56.50.25
56.50.25P
Sutureless, self-retaining

12 per box

**29GA DUAL CHANDELIER**
56.50.29P
Eliminates shadowing
Flexible insertion placement
2 pre-loaded trocar/cannulas included

12 per box

**AWH CHANDELIER CANNULA SYSTEM**
56.51.25P
Compatible with Alcon and Midline Cannula System
56.52.25P
Compatible with BeL Cannula System
56.53.23P
Compatible with Synergetics™IDORC Retractable Cannula System

12 per box

**ONE-STEP™ AWH CHANDELIER**
56.55.23P
56.55.25P
56.55.27P
Retractable insertion shield
12 per box
**Infusion Chandeliers**

**ILLUMINATED INFUSION CHANDELIER**
- 56.30
- 56.30P
- 56.30.23P
- 56.30.25P

12 per box

**SELF-RETAINING ILLUMINATED INFUSION CHANDELIER**
- 56.32P

Self-retaining

12 per box

**HIGH FLOW ILLUMINATED INFUSION CHANDELIER**
- 56.34.25P

For use with P2-PHOTON™

12 per box

**Vitrector**

**MICROFIBER ILLUMINATED VITRECTOR SLEEVE**
- 56.61P

Converts 25ga. Alcon cutter to 20ga illuminated cutter

For use with Alcon 25ga cutter

12 per box

**MICROFIBER ILLUMINATED VITRECTOR**
- 56.61PV

23ga vitreector fitted with illumination sleeve

For use with Alcon Acurus

6 per box

PHOTON™ Compatible
Adapters

To use Synergetics® endoilluminators with alternative light sources.

**ALCON ACCURUS, GRIESHABER, DORC, TREK**

- 57.02 Synerport™ Multifiber Adapter
- 57.12 Synerfix™ Single Port Adapter

**ALCON ACCURUS XENON ILLUMINATOR**

- 57.20 Fiber Unisport Adapter connects to the Alcon Accurus and enables use of PHOTON™ endoilluminators

**STORZ PREMIERE, B&L MILLENNIUM™**

- 57.04 Synerport™ Multifiber Adapter
- 57.14 Synerfix™ Single Port Adapter

**DORC ASSOCIATE**

- 57.26 Synerfix™ Single Port Adapter

**OPTIKON**

- 57.07 Synerport™ Multifiber Adapter
- 57.17 Synerfix™ Single Port Adapter

**DORC BRIGHTSTAR**

- 57.27 Synerfix™ Single Port Adapter

**OERTLI**

- 57.08 Synerport™ Multifiber Adapter
- 57.18 Synerfix™ Single Port Adapter

**ALCON**

- 57.30 Alcon Constellation Illumination Adapter, PHOTON™
- 57.31 Alcon Constellation Illumination Adapter, Non-PHOTON™ Synerfix™ Single Port Adapter

**GEUDER**

- 57.09 Synerport™ Multifiber Adapter
- 57.19 Synerfix™ Single Port Adapter

Each
DDMS™
diamond dusted membrane scrapers

Tano Diamond Dusted Membrane Scrapers (DDMS™) offer an atraumatic alternative to find the edge of a membrane. The diamond dusted, soft silicone tip finds and grasps the edge of the membrane quickly and easily for your forceps. Available in several styles, including a retractable version, the patented DDMS™ has become a staple in O.R.s around the world.
DDMS™

TANO DIAMOND DUSTED MEMBRANE SCRAPER
20.04  
20.04.23  
20.04.25S
5 per box

STIFF TANO DIAMOND DUSTED MEMBRANE SCRAPER
20.07
5 per box

RETRACTABLE TANO DIAMOND DUSTED MEMBRANE SCRAPER
20.16
3 per box

ADJUSTABLE TANO DIAMOND DUSTED MEMBRANE SCRAPER WITH PICK
20.18
3 per box

DDMS™ Benefits

- Helps remove membranes in PVR minimizing trauma and reproliferation
- Effectively aids in the atraumatic removal of immature membranes and pigmented cells from the retina
- Assists atraumatic separation of hyaloids from neurosensory retina
- Especially beneficial for relieving traction from the rim of macular holes or retinal breaks in an atraumatic fashion
Cannula Systems

ONE-STEP™ Cannula Systems
These unique cannula systems are pre-loaded on a trocar and self-retaining once inserted into the eye. They have a slightly larger ID which allows for easy instrument entry.

With the ONE-STEP™ Cannula Systems, wound architecture is considerably improved due to the incorporation of Razor Technology™ on the blade. The blade is specially beveled and offers a slight step providing the surgeon easier insertion into the scleral resulting in ONE-STEP™ sutureless surgery. This reduces leaking and delivers faster recovery times.

The blade is also slightly larger than normal because it is flat. It makes a longer incision at first, but ovalizes once instruments are introduced.

Reusable Cannula Systems
This is a true 2-step autoclavable cannula system. The durable reusable cannulas provide a cost effective alternative to the single use disposable systems. The set comes in an autoclavable case and includes 4 cannulas, 4 dull obturators, an infusion line, forceps, a sclera marker, and plugs.
Disposable

ONE-STEP™ CANNULA SYSTEM

Non-Valved

ONE-STEP™ SUTURELESS CANNULA SYSTEM

Valved

VALVED ONE-STEP™ SUTURELESS CANNULA SYSTEM

Reusable

REUSABLE CANNULA TROCAR SET

Includes the following:
- 4 cannulas including one for infusion line
- 4 reusable dull obturators
- One autoclavable Chow ‘X’ Marker
- One forceps
- Reusable infusion line
- 3 scleral plugs

(58.00.25 required to make the setreasure)

Each

Accessories & Replacements

ACCESSORIES & REPLACEMENTS

58.00.23 - 23ga Disposable Angled Blade (6)
58.231 - Replacement Infusion Cannula (3)
58.232 - Replacement Instrument Cannula (3)
58.233 - Replacement Forceps (1)
12.43 - Replacement Cannula Plugs (3)
30.25 - Replacement Infusion Tubing (5)
51.25 - Replacement Chow ‘X’ Marker (1)
CANNULA SYSTEMS

Reusable Infusion Cannulas

**INFUSION CANNULA**

30.20
2.5mm tip
Ideal phallic length

1 each

**INFUSION CANNULA**

30.21
4mm tip
All purpose length

1 each

**INFUSION CANNULA**

30.22
6mm tip
Ideal phallic length

1 each

**SET OF 20GA REUSABLE INFUSION CANNULAS**

30.23
1 each: 2.5mm, 4mm, 6mm

1 each

Disposable Infusion Cannulas

**INFUSION CANNULA**

30.31
4mm tip
All purpose length

5 each

**INFUSION CANNULA**

30.32
6mm tip
Ideal phallic length

5 each

**INFUSION CANNULA**

30.41
4mm tip, high pressure
Rated up to 100psi injection pressure

5 each
Procedural Packs

We offer a variety of surgical packs from vitrectomy packs to injection kits and other accessory items. Our packs are configured to save you hours of ordering time, reduce and organize your inventory, and make your surgical prep more efficient. We offer several different configurations of each pack to meet your individual needs.
Vitrectomy Pack

VITRECTOMY PACK FOR ALCON ACCURUS
17061
Includes:
- 56.02.23 Focal Light Pipe
- 23ga Vitrectomy Cutter
- 23ga Angled MVR Blade
6 per pack

VITRECTOMY PACK FOR ALCON ACCURUS AND PHOTON™
17061P
Includes:
- 56.02.23P Focal Light Pipe
- 23ga Vitrectomy Cutter
- 23ga Angled MVR Blade
6 per pack

CANNULA/VITRECTOMY PACK FOR B&L MILLENIUM
17064
Includes:
- 23ga Vitrectomy Cutter
- 23ga Cannula System (58.23)
17074
Includes:
- 25ga Vitrectomy Cutter
- 25ga Cannula System (58.25)
6 per pack

VITRECTOMY PACK FOR B&L MILLENIUM
17062
Includes:
- 56.02.23 Focal Light Pipe
- 23ga Vitrectomy Cutter
- 23ga Angled MVR Blade
6 per pack

VITRECTOMY PACK FOR B&L MILLENIUM AND PHOTON™
17062P
Includes:
- 56.02.23P Focal Light Pipe
- 23ga Vitrectomy Cutter
- 23ga Angled MVR Blade
6 per pack

PHOTON™ Compatible
I-PACK™

Synergetics™ has packaged everything you need for office injections into one complete sterilized I-PACK™. The I-PACK™ will reduce the risk of endophthalmitis, save you hours of ordering time, reduce and organize your inventory, and save 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 the speculum and for dipping the cotton swabs. The two other compartments can be used for discarded vials and used swabs and needles, making clean-up quick and easy.

I-PACK™ Benefits

- **REDUCED RISK OF INFECTION**
  Sterile, prepackaged kit minimizes chance of infection. Potential reduction in malpractice insurance.

- **SAVE ORDERING TIME**
  Affordable, one-stop quick ordering for your office injection requirements.

- **CONTROL INVENTORY**
  With only the I-PACK™ to monitor, keeping track of inventory has never been so easy.

- **SAVE PREPARATION TIME**
  No more fumbling around trying to locate misplaced speculums. Everything you need is contained in a sealtight, ready to use, sterilized package.

I-PACK™

18060

Includes:

- 2 10mL Tuberculin Syringes
- 1 Pr Synthetic Latex Free Gloves
- 1 30ga 1/2” Needle
- 1 27ga 1/2” Needle
- 2 18ga 1” Needles
- 6 Cotton Swabs 6”
- 1 Barraquer Eyelid Speculum
- 1 3.5-4mm Scleral Gauge

10 per pack

I-PACK™ WITH DRAPE

18061

Includes:

- 2 10mL Tuberculin Syringes
- 1 Pr Synthetic Latex Free Gloves
- 1 30ga 1/2” Needle
- 1 27ga 1/2” Needle
- 2 18ga 1” Needles
- 6 Cotton Swabs 6”
- 1 Barraquer Eyelid Speculum
- 1 3.5-4mm Scleral Gauge
- Eye drape (16” x 16”)

10 per pack

I-PACK™

18062

Includes:

- 2 10mL Tuberculin Syringes
- 1 Pr Synthetic Latex Free Gloves
- 1 30ga 1/2” Needle
- 1 27ga 1/2” Needle
- 2 filtered 19ga 1-1/2” Needles
- 6 Cotton Swabs 6”
- 1 Barraquer Eyelid Speculum
- 1 3.5-4mm Scleral Gauge

10 per pack
**Custom I-PACK™**

**CUSTOM PACK 18064**
Includes everything in 18060 pack plus:
- 4 4x4 gauze pads
- 1 Disposable forceps
- 1 Eye drape (16” x 16”)

Pack is placed in Tyvek pouch creating an additional level of sterility
10 per pack

**CUSTOM PACK 18066**
Includes everything in 18060 pack except gloves are diamond edge high grip
10 per pack

**CUSTOM PACK 18067**
Includes:
- 1 Barraquer Eyelid Speculum
- 1 3.5-4mm Scleral Marker
- 1 30ga 1/2” Needle

10 per pack

**CUSTOM PACK 18069**
Includes:
- 1 Barraquer Eyelid Speculum
- 1 Scleral Marker

10 per pack

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**Infusion**

**ADJUSTABLE GAS PRESSURED INFUSION TUBING SYSTEM 17565**

Delivers digitally controlled infusion into the eye
10 per pack

**ADJUSTABLE GAS PRESSURED INFUSION TUBING 17565**
Includes:
- 1 Tubing Set
- 1 Prespike
- 2 Stopcocks

**BALANCED SALT SOLUTION B. BRAUN 17560**
500mL glass bottle with bullseye rubber stopper
12 per pack
The name Synergetics™ on an instrument ensures its quality and performance. Our extensive line of instrumentation includes a wide variety of tips, finishes, handles, and innovative designs to meet any surgeon’s needs.

Synergetics™ Instruments

- **Diamond Black™**
  Diamond Black™ coating provides a diamond hard, glare-free black surface that improves instrument durability.

- **Kryptonite™**
  Kryptonite™ is a natural, glare-free black material. Kryptonite™ will not flake, unlike most coatings. It is incapable of rusting and is 7x more resistant to damage than stainless steel.

- **Microserrations™**
  Microserrations™ are tiny cuts in the instrument tips that perfectly interlock to provide a superior grasping surface. Unlike the diamond dusted alternative this surface will not dull over time.
Single-Use Instruments
Synergetics’ single-use instrumentation is designed and manufactured with the same quality and care as our reusable offerings. With our single-use instrumentation you can expect safe, consistent performance on every case.

Pinnacle 360™
Instrument preference and surgical technique vary greatly between surgeons. The fully disposable Pinnacle 360™ handle is available in 13 different tip configurations to meet even the most unique surgical needs. The line includes popular items such as Tano or Eckardt style forceps for peeling to equally important but seldom used instruments such as foreign body forceps. The Pinnacle 360™ platform is positioned to grow as advancements are made in micro-incision vitreoretinal surgery.

Overview of Benefits
- 360° Actuation & Ergonomic Design
- Intuitive Identification
- Comprehensive Tip Selection
- 13 Unique Tip Designs
- 20, 23, 25, and 27 gauges
- All tips are finished with a blackening process that leaves them virtually glare free
Pinnacle 360™

INTUITIVE IDENTIFICATION
- Instruments quickly and easily recognized
- Color-coded by gauge size
- Instrument type labeled on the handle

20ga
23ga
25ga
27ga
Foreign Body
ILM

**TANO FORCEPS**
- 09.04PIN
- 39.03.23PIN
- 39.03.25PIN
- 39.03.27PIN
5 per box

**FINE TIP ECKARDT FORCEPS**
- 09.10.23PIN
- 09.10.25PIN
- 09.10.27PIN
5 per box

**END GRASPING FORCEPS**
- 09.12PIN
- 09.12.23PIN
- 09.12.25PIN
5 per box

**ECKARDT FORCEPS**
- 39.08PIN
- 39.08.23PIN
- 39.08.25PIN
- 39.08.27PIN
5 per box

Heavy Membrane

**PYRAMID TIP FORCEPS**
- 11.04PIN
- 11.04.23PIN
- 11.04.25PIN
5 per box

**SERRATED JAW END GRIPPING FORCEPS**
- 11.06PIN
- 11.06.23PIN
- 11.06.25PIN
5 per box

**APTE CORSET FORCEPS**
- 39.07.23PIN
- 39.07.25PIN
5 per box

Dual Purpose

Pick

**PICK FORCEPS**
- 09.05PIN
- 09.05.23PIN
- 09.05.25PIN
5 per box
Scissors

**VERTICAL SCISSORS®**
- 10.24PIN
- 10.24.23PIN
- 10.24.25PIN

5 per box

*DB* Diamond Blade™  *K* Kryptonite™  *MS* Microserrated™

**HORIZONTAL CURVED SCISSORS®**
- 23.76PIN
- 23.76.23PIN
- 23.76.25PIN

5 per box

Heavy Membrane

**FOREIGN BODY FORCEPS®**
- 11.20PIN

5 per box

**BB REMOVAL FORCEPS®**
- 11.40PIN

5 per box

**FOREIGN BODY MAGNET®**
- 12.21PIN

5 per box
Syntrifugal™

The Syntrifugal™ system combines the feel of your reusable Synergetics™ squeeze handle with all the benefits of disposable instrumentation. To ensure the highest quality and performance, our disposable tips are manufactured with the same patented process as our reusable instruments.

SYNTRIFUGAL™ REUSABLE HANDLE

Syntrifugal™

Offered in a small and large design this handle incorporates a rotating shaft that allows the tip to rotate 360°.

SYNTRIFUGAL™ LARGE HANDLE
(D00.01SL)
Each

SYNTRIFUGAL™ SMALL HANDLE
(D00.015S)
Each

Maximizes Options
- One Syntrifugal™ handle with any disposable (D) tip

Ergonomic Design
- Reduces fatigue
- Smaller diameter is ideally suited for smaller hands

DISPOSABLE SYNTRIFUGAL™ TIP
*Reusable handle and disposable tips are purchased separately
ILM

TANO ASYMMETRICAL MICRO FORCEPS®
D09.04  
D39.03.23  
D39.03.25  
D39.03.27
5 per box

MORRIS/WITHERSPOON
FULLVIEW ILM FORCEPS®
D09.40  
D09.40.25PIN
5 per box

ECKARDT FORCEPS®
D39.08  
D39.08.23  
D39.08.25  
D39.08.27
5 per box

ECKARDT FINE TIP FORCEPS®
D39.10.23  
D39.10.25
5 per box

GUAGE CONVERSION SLEEVES
D25-20 - 25ga (convert 25ga disposable tips to 20ga)  
D25-23 - 25ga (convert 25ga disposable tips to 23ga)
Each

Heavy Membrane

PYRAMID TIP FORCEPS®
D11.04
5 per box

Pick

DUCOURNAU FORCEPS®
D29.02
5 per box

Scissors

HORIZONTAL SCISSORS, MEDIUM CURVED, FINE TIP®
D23.76  
D23.76.23  
D23.76.25
5 per box
Premium Instruments

Synergetics™ Premium line of instruments deliver unparalleled consistency and performance. With our experienced instrument makers and proprietary manufacturing technologies our instruments are built with a variety of features that vastly improve surgical performance.

Handles

Handle Options

Synergetics™ offers two handle options to suit your needs. Care and personal attention to detail ensures that our handles will offer you a lifetime of use. Our handles undergo a stringent, 20-point inspection process so you can be assured of a quality product with smooth, effortless actuations.

**SYNERLITE™ LARGE SQUEEZE HANDLE**
*All instruments come on this handle unless specified*

**SYNERLITE™ SMALL SQUEEZE HANDLE (S)**
*Substitute “S” behind catalog number to ensure you receive the small handle when ordering*

**Linear Closure**
- Synchronous actuation ensures smooth closures

**Titanium Construction**
- Lighter weight reduces fatigue
- Resists corrosion
- Extends instrument life

**Color Coded**
- Handles and tips are color-coded for quick and easy identification

**Easy Cleaning**
- Handle and reservoir separate for thorough and easy cleaning

**Etched Serial Numbers**
- Matching etched serial numbers pair handle with correct tip

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All Premium instruments either come with Kryptonite™ or Diamond Black™ finish.
ILM

FINE TIP ECKARDT FORCEPS
09.10.23
09.10.25
Each

PINCER END GRIPPING FORCEPS, DIAMONIZED
11.28
11.28.23
Each

LAMBERT ILM FORCEPS
09.26
Each

TANO ASYMMETRICAL MICRO FORCEPS
39.23
25ga tip, 20ga shaft
39.23.23
39.23.25
Each

MORRIS/WITHERSPOON FULLVIEW™ ILM FORCEPS
09.50
25ga tip, 20ga shaft
09.50.20
09.50.25
Each

TANO ASYMMETRICAL PEELING FORCEPS
39.24
Each

POINTED MICRO FORCEPS, DIAMONIZED
11.23
25ga tip, 20ga shaft
11.23.23
Each

ECKARDT FORCEPS
39.28
39.28.23
39.28.25
Each

DB Diamond Black™ K Kryptonite™ MS Microserrated™
PREMIUM INSTRUMENTATION

Heavy Membrane

END GRIPPING FORCEPS, DIAMONIZED
11.21
Each

PYRAMID TIP FORCEPS, DIAMONIZED
11.24
Each

SERRATED JAW END GRIPPING FORCEPS, DIAMONIZED
11.26
Each

Pick

LOW MASS/HIGH VISIBILITY PICK FORCEPS
09.25
09.25.23
09.25.25
Each

DE JUAN/TANO SERRATED PICK FORCEPS
11.22
Each

DUCOURNAU SERRATED FORCEPS
29.22
29.22.23
Each

Dual Purpose

APTE CORSET FORCEPS
39.27.23
25ga tips, 25ga shaft
39.27.25
Each

DB Diamond Black™ K Kryptonite™ MS Microserrated™
**Specialty**

- **CHANG IOL FORCEPS, NEGATIVE ACTION**
  - Each
  - 11.27

**Foreign Body**

- **FOREIGN BODY FORCEPS**
  - Each
  - 11.20

**Illuminated**

- **ILLUMINATED MICRO FORCEPS, DIAMONIZED**
  - Each
  - 34.21

- **JOSEPH/MEREDITH BB REMOVAL FORCEPS**
  - Each
  - 11.40

- **FOREIGN BODY MAGNET**
  - Each
  - 12.21

**ILLUMINATED END GRIP FORCEPS, DIAMONIZED**

- Each
  - 34.22

**ILLUMINATED END GRIPPING FORCEPS**

- Each
  - 64.22

**DB** Diamond Black™  **K** Kryptonite™  **MS** Microserrated™
Scissors

**VERTICAL SCISSORS**
10.21
Each

**MORRIS HORIZONTAL SCISSORS**
10.54
Each

**TANO VERTICAL SCISSORS**
10.23
Each

**HORIZONTAL SCISSORS, LARGE CURVED**
23.21
Each

**MORRIS VERTICAL SCISSORS**
10.24
10.24.23
10.24.25
Each

**HORIZONTAL SCISSORS, 2.5mm BLADES, 55°**
23.22
Each

**WITHERSPOON VERTICAL SCISSORS**
10.25
Each

**HORIZONTAL SCISSORS, 1.3mm BLADES, 55°**
23.25
Each
Scissors

**HORIZONTAL SCISSORS, MEDIUM CURVED**

- 23.26
- 23.26.23
- 23.26.25

Each

**HORIZONTAL SCISSORS, MEDIUM CURVED**

- 23.56
- 23.56.23
- 23.56.25

Each

**HORIZONTAL SCISSORS, SMALL CURVED**

- 23.27

Each

**SWEEPER SCISSORS, 55°, 1.7mm**

- 23.28

Each

**ILLUMINATED HORIZONTAL SCISSORS**

- 35.22

Each

**ILLUMINATED SMALL CURVED HORIZONTAL SCISSORS**

- 35.26

Each

**STRAIGHT SCISSORS**

- 23.29
- 23.29.23

Each
Subretinal Forceps

**THOMAS VERTICAL SUBRETINAL FORCEPS, DIAMONIZED**

Each

21.21

**THOMAS HORIZONTAL SUBRETINAL FORCEPS**

Each

39.21

**THOMAS HORIZONTAL SUBRETINAL SCISSORS, ANGLED 135°**

Each

23.23

Subretinal Scissors

**THOMAS VERTICAL SUBRETINAL SCISSORS**

Each

24.21

**LAMBERT HORIZONTAL SUBRETINAL SWEEPER SCISSORS**

Each

23.24

**Diamond Black™**, **K** Kryptonite™, **M** Microserrated™
APEX Instruments
An economical alternative to our premium instrument line, the Apex handle gives you a similar quality tip designs on a cost conscious platform.

APEX HANDLE

APEX HANDLE (A)

LINEAR CLOSURE
- Synchronous actuation ensures smooth closures
- All tips are made with stainless steel and have a stainless finish
- Resists corrosion

TITANIUM CONSTRUCTION
- Lighter weight reduces fatigue
- Resists corrosion
- Extends instrument life
ILM

**TANO ASYMMETRICAL MICRO FORCEPS**
- 09.03A
- 25ga tip, 20ga shaft
- 09.03.23A
- 09.03.25A

**MORRIS/WITHERSPOON FULLVIEW™ ILM FORCEPS**
- 09.50A
- 25ga tip, 20ga shaft
- 09.50.25A
- 09.50.20A

**TANO ASYMMETRICAL MEMBRANE PEELING FORCEPS**
- 09.04A

**POINTED MICRO FORCEPS, DIAMONIZED**
- 11.03A
- 11.03.23A

**ECKARDT FORCEPS**
- 09.08A
- 09.08.23A
- 09.08.25A

**PINCER END GRIPPING FORCEPS, DIAMONIZED**
- 11.08A
- 11.08.23A

**ECKARDT FINE TIP FORCEPS**
- 09.10.23A
- 09.10.25A
Heavy Membrane

**APTE CORSET FORCEPS**
09.07.23A
23ga tip, 23ga shaft
09.07.25A

Each

**END GRIPPING FORCEPS, DIAMONIZED**
11.01A

Each

**PYRAMID TIP FORCEPS, DIAMONIZED**
11.04A

Each

**SERRATED JAW END GRIPPING FORCEPS, DIAMONIZED**
11.06A

Each

Pick

**LOW MASS, HIGH VISIBILITY PICK FORCEPS**
09.05A
09.05.23A
09.05.25A

Each

**DE JUAN/TANO SERRATED PICK FORCEPS, DIAMONIZED**
11.02A

Each

**DUCOURNAU SERRATED FORCEPS**
29.02A
29.02.23A

Each
Specialty Forceps

CHANG IOL REPOSITIONING FORCEPS, NEGATIVE ACTION, DIAMONIZED

| 11.07A | Each |

Illuminated Forceps

ILLUMINATED MICRO FORCEPS, DIAMONIZED

| 34.01A | Each |

| 34.02A | Each |

Scissors

VERTICAL SCISSORS

| 10.01A | Each |

| 10.03A | Each |

| 10.04A | Each |

| 10.05A | Each |

TANO VERTICAL SCISSORS

MORRIS VERTICAL SCISSORS

WITHERSPOON VERTICAL SCISSORS
Scissors

MORRIS HORIZONTAL SCISSORS
10.44A
Each

HORIZONTAL SCISSORS, MEDIUM CURVED
23.06A
23.06.23A
23.06.25A
Each

HORIZONTAL SCISSORS, LARGE CURVED
23.01A
Each

HORIZONTAL SCISSORS, SMALL CURVED
23.07A
Each

HORIZONTAL SCISSORS, 2.5mm BLADES, 55°
23.02A
Each

HORIZONTAL SCISSORS, MEDIUM CURVED
23.46A
23.46.23A
23.46.25A
Each

HORIZONTAL SCISSORS, 1.3mm BLADES, 55°
23.05A
Each

STRAIGHT SCISSORS
23.09A
23.09.23A
Each

DB Diamond Black  K Kryptonite  MS Microserrated
Illuminated Scissors

ILLUMINATED HORIZONTAL SCISSORS
35.02A
Each

ILLUMINATED SMALL CURVED HORIZONTAL SCISSORS
35.06A
Each

Subretinal Forceps

THOMAS VERTICAL SUBRETINAL FORCEPS
09.01A
Each

VERTICAL SUBRETINAL FORCEPS, DIAMONIZED
21.01A
Each

Subretinal Scissors

THOMAS HORIZONTAL SUBRETINAL SCISSORS, ANGLED 135°
23.03A
Each
Scleral Markers

**AWH SUTURELESS SCLEROTOMY MARKER**

51.20
Marked at 3mm and 4mm

Each

**CHOW SCLERAL MARKER**

51.25
Marked at 3mm and 4mm

Each

**AWH SCLERAL MARKER**

51.35
Marked at 3mm and 4mm

Each

**AWH HORSESHOE SCLERAL MARKER**

51.45
Marked at 3mm and 4mm
Specifically designed to stabilize cannula

Each

Reusable Picks

**THOMAS SUBRETINAL PERFORATOR/SPATULA 36GA, 131°**

20.01
36ga, 10mm at distal tip

Each

**RICE ILM ELEVATOR, 127°**

20.02
20.02.23A
20.02.25A
42ga, 10mm

Each

**THOMAS HYLOID LIFTER**

20.03
42ga, 10mm at tip

Each

**IEZZI SKI PICK**

20.21
27ga, 41mm at tip

Each
Reusables

**THOMAS BLUNT 36GA SUBRETINAL PERFORATOR SPATULA, 131°**

20.30 Each
36ga, 20mm at tip

**LEWIS 33GA SUBRETINAL PERFORATOR, 90°**

26.01 Each
35ga, 20mm at tip

**SHIRAGA PICK, 110°**

20.31 Each
33ga, 20mm at tip

**LEWIS 33GA SUBRETINAL PERFORATOR, 135°**

27.01 Each
35ga, 20mm at tip

**AWH SERRATED PICK, 135°**

20.41 Each
20.41.23 30ga, 30mm at tip
20.41.25 30ga, 30mm at tip

**MEMBRANE PICK**

28.01 Each 110°
28.02 Each 130°
28.03 Each 150°
27ga, 41mm at tip

**MORRIS PICK**

20.51 Each
33ga, 20mm at tip

**MEMBRANE PEELER, SPHERICAL TIP, 110°**

28.04 Each
30ga, 30mm tip
Reusable Picks

**MEMBRANE RAKE, FLAT TIP, 140°**
28.05
Each

**MEMBRANE RAKE, CURVED TIP, 140°**
28.06
Each

**MICHELS’ SPATULA, 90°**
28.22
22ga, .71mm at tip
Each

**TWO-PORT VITRECTOMY (TPV™) IRRIGATING SPATULA, 120°**
28.30
24ga, .55mm at tip
Each

**ROUNDED TIP SPATULA, 140°**
28.07
Each

**MICHELS’ HOOK, 90°**
28.21
36ga, .20mm at tip
Each

Disposable Illuminated Pick

**CHOW ILLUMINATED MEMBRANE PICK**
56.07P
56.07.23P
56.07.25P
12 per box

PHOTON™ Compatible
Disposable Knives

**OPREMCAN BRVO KNIFE**
52.00
5 per box

**OPREMCAN/PAKCO ANGLED CRVO KNIFE**
52.20.250
5 per box

**OPREMCAN CRVO KNIFE**
52.20
5 per box

**DISPOSABLE BLADE**
58.00.23
Use with 58.23R
6 per box

**OPREMCAN/PACKO ANGLED CRVO KNIFE**
52.20.25
30ga., 30mm at tip
5 per box
Reusable Cannulas & Needles

**31.00 REFLUX HANDPIECE**
Each

*for use with 30.01-30.09*

**31.00 REFLUX HANDPIECE**
Each

**BLUNT EXTRUSION NEEDLE**
30.01
Each

**BRUSH CANNULA TIP, CURVED**
30.07
Each

**TAPERED BLUNT EXTRUSION NEEDLE**
30.02
27ga, 40mm tip
Each

**SOFT TIP CANNULA**
30.08
Each

**BRUSH CANNULA TIP, STRAIGHT**
30.06
Each

**RESNICK SUBRETINAL FLUID DRAINAGE NEEDLE**
30.09
25ga, 2.5mm long 1mm bevel
Each

**METAL LOCKING LUER-HUB NEEDLE**
With products 30.01 - 30.09

**REPLACEMENT REFLUX RESERVOIR**
31.01 - 2 per box
31.02 - 10 per box
Reusable Cannulas & Needles

**WHITE AUTOCLAVABLE HANDLE**

**THOMAS SUBRETINAL 30GA NEEDLE**
- 02.03
- 30ga, 30mm tip
- Each

**THOMAS SUBRETINAL 33GA CANNULA**
- 13.01
- 33ga, 20mm tip
- Each

**CHANG PERFLUOROCARBON CANNULA**
- 08.01
- 25ga, 50mm tip
- Each

**LEWIS SUBRETINAL 33GA TPA CANNULA, 135°**
- 14.01
- 33ga, 20mm tip
- Each

**THOMAS SUBRETINAL 33GA SHARP BENT CANNULA**
- 12.01
- 33ga, 20mm tip
- Each

**LEWIS SUBRETINAL 33GA TPA CANNULA, 90°**
- 15.01
- 33ga, 20mm tip
- Each
Reusable Cannulas & Needles

**AUTOCLAVABLE HANDLE WITH SLIDE**

**UNIVERSAL SOFT TIP NEEDLE**

- 30.10
- 30.10.23

6 per box

**FENESTRATED UNIVERSAL SOFT TIP NEEDLE**

- 30.11.23

6 per box

Disposable Cannulas & Needles

**RIGID MICRO INJECTION CANNULA, STRAIGHT**

- 12.02
- 39ga, 10mm at tip

- 12.03
- 42ga, 10mm at tip

Black, disposable handle
5 per box

**RIGID MICRO INJECTION CANNULA, ANGLED**

- 12.12
- 39ga, 10mm at tip

- 12.13
- 42ga, 10mm at tip

Black, disposable handle
5 per box

**DE JUAN/AWH SUBRETINAL INJECTION**

- 12.03.25
- 41ga, 10mm at tip

5 per box

**SOFT TIP CANNULA**

- 30.08.23
- 30.08.25

Each
Disposable Cannulas & Needles

31.00 REFLUX HANDBECE
Each
for use with 30.65 - 30.75

FLEXIBLE TIP FLUID CANNULA

30.60
35mm tubing length
6mm flexible tip
10 per box

VITREORETINAL SOFT TIP

30.76
31mm tubing length
3mm flexible silicone
10 per box

FLUID CANNULA, CURVED

30.65
35mm tubing length
6mm flexible tip
10 per box

SILICONE OIL CANNULA

30.80
10 per box

VITREORETINAL CANNULA

30.70
35mm tubing length
10 per box

TRANSCONJUNCTIVAL CHOW
SILICONE OIL INJECTION
CANNULA

30.80.25
6 per box

VITREORETINAL BRUSH

30.75
35mm tubing length
10 per box
Backflush

DISPOSABLE BACKFlush HANDLE

DISPOSABLE BACKFlush HANDPIECE, BLUNT TIP
D31.01
5 per box

DISPOSABLE BACKFlush HANDPIECE, BRUSH TIP
D31.06
5 per box

DISPOSABLE BACKFlush HANDPIECE, SOFT TIP
D31.08
D31.08.23
D31.08.25
5 per box

Bipolar Cautery

BIPOLAR CAUTERY
53.00.23
53.00.25
6 per box

ILLUMINATED BIPOLAR CAUTERY
56.00.25P
6 per box
**Iris Retractors**

**IRIS RETRACTORS**
Synergetics® offers iris retractors in both reusable and disposable versions. The flexible nylon hook on both products retracts easily. The flat bottom on the cases keep it in place allowing easy extraction of the retractors.

**Reusable, Autoclavable Flexible Translimbal Iris Retractors**
- 40.01-2
  - 5 per set, 2 sets
- 40.01-6
  - 5 per set, 6 sets

**Disposable Flexible Translimbal Iris Retractors**
- 40.02-2
  - 5 per set, 2 sets
- 40.02-6
  - 5 per set, 6 sets

**Sterilization Trays**

**Sterilization Tray, Small**
- 28.25
  - 6" x 2" x .75"
  - 15.2cm x 5.1cm x 1.9cm
  - Holds 2 picks or 1 instrument

**Sterilization Tray, MPC**
- 16070
  - 10" x 3" x 1.5"
  - 25.4cm x 7.6cm x 3.8cm
  - Holds 1 MPC Set

*Each*
Sterilization Trays

STERILIZATION TRAY, LARGE

23101
15" x 10" x .75"
38.1cm x 25.4cm x 1.9cm
Holds 25 instruments

Each

STERILIZATION TRAY, MEDIUM

23102
10" x 6" x .75"
25.4cm x 15.2cm x 1.9cm
Holds 10 picks or 6 instruments

Each

STERILIZATION TRAY, DIAMOND KNIFE

23103
7.5" x 2.6" x .75"
19cm x 6.6cm x 1.9cm
Holds 1 Diamond Knife

Each

Tip Protectors

All Synergytics™ tip protectors are autoclavable and will protect your instrument during storage and sterilization.

TIP PROTECTOR, HANDLED CANNULA

34.70
Fin Synergytics™ reusable handled cannula

Each

TIP PROTECTOR, HANDLED PICKS

34.71
Fin Synergytics™ handled picks

Each

TIP PROTECTOR, FOR PICKS, RAKES & SPATULAS

34.72
Fin Synergytics™ handled picks

Each

TIP PROTECTOR, SPLIT, UNIVERSAL

34.74
Fin Synergytics™ Large and Small Squeeze handles

Each
Tip Protectors

**TIP PROTECTOR, MPC**

- **34.75**
- Larger design to fit and protect MPC
- Each

**TIP PROTECTOR, DORC**

- **34.76**
- Replacement tip protector for your DORC instruments
- Each

**TIP PROTECTOR, GRIESHABER (ALCON)**

- **34.77**
- Replacement tip protector for your Grieshaber instruments
- Each

**TIP PROTECTOR, APEX**

- **34.78**
- Doubles as cleaning luer and tip protector for the APEX™ handle
- Each

Luers & Plugs

**CLEANING LUER**

- **34.80**
- for Synergytia™ Premium instruments
- Each

**DISPOSABLE SCLERAL PLUG**

- **12.40**
- **12.41 - 19ga**
- Each

**REPLACEMENT SCLERAL PLUG**

- **12.43**
- for Reusable Cannula Set, 58.238
- 5 per box
Cleaning

Synergetics™ instruments have a precise working mechanism. Fluids will enter this mechanism during the surgical procedure. If these fluids are not cleaned out promptly, this contamination can lead to corrosion, protein accumulation and the possibility of instrument malfunction.
Care & Handling of Microsurgical Instruments

1. CLEANING
   Immediate Cleaning
   - Remove blood, saline, tissue and other contaminants immediately by flushing with distilled water (deionized water).
   - Clean instruments with a mild soap.
   - Flush with distilled water.
   - Flush with alcohol.

   Ultrasonic Cleaning and Drying
   - Follow the manufacturer’s instruction for proper use of your ultrasonic cleaner.
   - Use only “suds” detergents with distilled water (pH 7.0).
   - Place tip protectors on instruments before placing in ultrasonic cleaner.
   - Immersion instruments together in a mesh type tray for the specified time period as described by the ultrasonic cleaner’s instructions. This time period usually runs less than 5 minutes. (DO NOT ALLOW the instruments to touch one another while in the tray.)
   - Flush instruments thoroughly with distilled water. This removes any chemical residues from the surface and prevents instrument from staining.
   - Flush with alcohol.
   - Dry instruments with a hot air blower rather than hand drying with gauze or towels. (Fine tips and edges can be damaged by contact.)

2. STERILIZATION
   - Sterilize instruments according to hospital guidelines.
   - Steam autoclaving is widely used because cycle time is relatively low.
   - Although flash autoclaving is an accepted method of sterilization, the instrument’s useful life will be shortened. Use of either the Steris or the Sterrad process will compromise instrument life and void the warranty.
   - ETO sterilizing is recommended due to low temperature and moisture levels experienced during processing. The major limitation with ETO sterilization is the long cycle and aeration time required.

3. INSPECTION
   - Inspect instruments on a continual basis. If a problem is observed or suspected, it should be labeled and set aside for evaluation/repair.
   - Scissors should be checked for burrs at tips, nicks in the cutting edges of blades, and loose screws which could prevent smooth cutting action. Ring handled instruments should be opened to examine box locks. If a box lock is loose, jaw misalignment will occur.
   - Needle holders should be able to hold a needle securely. If the needle is not secured in jaws, it should be tagged for repair. Instruments with serrated teeth should be examined for chipped or missing teeth.
   - Do not use damaged instruments for surgery.

4. LUBRICATION
   - Regularly lubricate the joints and locks of the instruments with a high grade medical instrument lubricant. Follow lubricant manufacturer’s instructions.

5. STORAGE
   - Clean the instruments thoroughly before storing.
   - Store the instruments in a dry place.
   - Always protect the tips of the instruments with tip protectors or soft silicone tubing before storage.
   - Do not allow the instruments to move or to touch one another when stored.
   - Use trays with soft silicone mats for storing the instruments.
   - All delicate and costly instruments, such as the diamond knife, etc. should be stored separately.
Premium Instrument Cleaning Instructions

Sterilization by Ethylene Oxide gas is recommended, but not required. Steam autoclaving will shorten instrument life.

1. Unscrew the tip from handle.

2. Ultrasonically clean handle.

3. Distilled or Deionized Water

4. Alcohol

Steps 5-7 on page 58

WARNING: Synergetics™ instruments are not recommended for use in procedures involving Kenalog/Triamcinolone.
Premium Instrument Cleaning Instructions

5. Dry tip by forcing one or two 50cc syringes full of air through tip. Remember to cover holes with finger tips. (Pressurized air is recommended, as it flushes out debris and fluid more efficiently than syringe forced air). Thoroughly dry handle, tip, cap and sterilization container.

6. Handle only should be soaked in distilled or deionized water for two minutes.

7. Dry with pressurized air and surgical sponge.
Apex™ Handle Cleaning Instructions

Sterilization by Ethylene Oxide gas is recommended, but not required. Steam autoclaving will shorten instrument life.

1. Ultrasonically clean entire Apex™ instrument.

2A. Rinse instrument with water.

2B. Wipe instrument with surgical sponge.
   Important: Close tip while wiping.

3. Connect 10cc luer slip syringe, filled with deionized water, to distal end of instrument.
   Flush full 10cc distilled or deionized water through internal lumen of instrument.

Steps 4-6 on page 60

WARNING: Synergetics™ instruments are not recommended for use in procedures involving Kenalog/Triamcinolone.
Apex™ Handle Cleaning Instructions

Important: Close tip while inserting and extracting.

Alcohol

Connect 3cc luer slip syringe, filled with de-natured alcohol, to distal end of instrument.
Flush full 3cc of de-natured alcohol through internal lumen of instrument.

Pressurized Air

Hold instrument securely. Force compressed air through internal lumen of instrument, making sure that internal lumen is completely dry. Use compressed air to dry handle.
If pressurized air is not available, use 50cc syringe to dry internal lumen.

Dry with a surgical sponge to remove excess moisture from the body of instrument.
"It is extremely important that the instrument is completely dry before putting away."
Synergetics™ Repair Service

DOMESTIC CUSTOMERS
- 24-hour turn around for Synergetics™ brand instruments*
- 48-hour turn around for non-Synergetics brand instruments**

INTERNATIONAL CUSTOMERS
- One week turn around on all instruments*

SERVICE FEATURES
- Full cost estimate prior to repair
- Brand new handle at no charge (Grieshaber only)
- Brand new box for instrument storage
- Guaranteed repair
- 30-day warranty on all repairs.

*Repaired within 48 hours from receipt of customers’ cost approval.

**The PHOTON™ light sources and Quantel Laser systems are not warranted against physical abuse such as dropping. Failure to follow procedures or instructions outlined in the Owner’s Manual may void the warranty. The warranty on the equipment will be void if the equipment is modified or repaired in any way by an untrained/uncertified person.

Turn-around time commences upon receipt of customer’s cost approval.
Upon completion, all repaired instruments are shipped next day air service.

Instrument Repair

For ophthalmic or neurosurgical instrument repairs, call our Synergetics™ Specialists. Our outstanding service department offers repair service to a wide array of surgical instrumentation including:

- DIAMOND KNIVES
- PHACO HANDPIECES
- ANTERIOR INSTRUMENTS
- ALCON & STORZ MPC’s
- SUBRETINAL INSTRUMENTS
- LASERS

Nearly all retinal instrumentation can be repaired or replaced from $50.00 up to $999.00. We offer 24-hour turnaround on Synergetics™ brand instrument repairs, and a standard 48-hour turnaround for non-Synergetics™ instrument repairs. When repair is complete, we ship all instrument repairs with a pre-paid UPS™ next day air label for any future repairs.

Capital Equipment Repair

24-hour service is offered on most capital equipment repairs including:

- PHOTON™
- OMNI®
- OMNI® HANDPIECES
- MALIS® SOLUTION™ IRRIGATION MODULES
- VITRA AND SUPRA LASERS
- MALIS® ADVANTAGE™ BIPOLAR GENERATORS
- BIDENT EQUIPMENT
- QUANTEL/HEINE LIos
- QUANTEL SLIT LAMP ADAPTORS
- MALIS® C.O.A.G.™ BIPOLAR GENERATORS
- CODMAN® BIPOLAR GENERATORS

Loaned service is also available on these pieces of equipment.

We also repair:
CUSTOMER SERVICE
Please Call: (800) 600-0565 or (636) 939-5100
Fax: (636) 939-6885
Email: customerservice@synergeticsusa.com
Mail to: Synergetics, Inc.
3845 Corporate Centre Dr.
O’Fallon, MO 63368, USA
Website: www.synergeticsusa.com

UNIVERSAL WARRANTY POLICY
SYNERGETICS PROVIDES NO WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED IN WRITING BELOW. In its sole discretion, Synergetics will repair or replace any Synergetics™ Product found to be defective in breach of one of these warranties. No other remedies are available. Specifically, Synergetics shall not be liable for consequential damages of any kind.

SYNERGETICS™ INSTRUMENT WARRANTY
Synergetics takes pride in the quality of our instruments. Unless a lesser warranty is otherwise indicated, all Synergetics™ instruments carry a five-year limited warranty, which warrants against material defects in materials and workmanship for five years from the date of the invoice, provided such instrument is used for its intended purposes under typical conditions and is not misused or abused. KYPHON™ instruments carry an additional lifetime limited warranty, which warrants against corrosion during the useful life of the instrument, provided any such instrument is used for its intended purposes under typical conditions, and is not misused or abused. The warranty on KYPHON™ instruments is voided for those instruments sterilized using a Sterrad or Steris procedure and for those instruments used in the presence of steroids like triamcinolone (e.g., Kenalog).

PHOTON™ WARRANTY
The PHOTON™ and the P2™ have a one-year limited warranty, which warrants against material defects in materials and workmanship, except for the lamp, for one year from the date of the invoice, provided such light source is used for its intended purposes under typical conditions, and is not misused or abused. Failure to follow procedures or instructions outlined in the Owner’s Manual may void the warranty.

VITRA & SUPRA WARRANTY
The Vitra carries a three-year limited warranty, which warrants against material defects in materials and workmanship for three years from the date of the invoice, provided the Vitra is used for its intended purposes under typical conditions, and is not misused or abused. Failure to follow procedures or instructions outlined in the Owner’s Manual may void the warranty.

PRODUCT COMPLAINTS
In the unlikely event that the quality, safety, or performance of a Synergetics™ product is found to be unacceptable, please send the product to Customer Service along with the owner’s facility name and address, contact person name and phone number, a specific description of your concerns, and the product lot number. Before sending any product in association with a complaint, please be sure to clean and disinfect the product. Synergetics will contact you regarding repair, replacement, or an alternate resolution to your complaint.

PRODUCT RETURNS
Synergetics will accept unused and undamaged goods on a per unit basis as invoiced, if returned within 90 days of the invoice date. Synergetics, in its sole discretion, will provide a refund or a credit for such returned goods, but will assess a restocking fee equal to 25% of the invoice price for each returned item. Please contact Customer Service to obtain a Returned Goods Authorization, which is required to be included with all returned goods. Items having the product number suffix ‘E’, ‘L’, ‘S’, ‘A’, or ‘X’ are special order products, so a return thereof will not result in any credit or refund. For products sold by the box, Synergetics will not accept the return of more than 5 boxes of product from any customer within a 90-day period.

REPAIR SERVICE
Synergetics offers full repair services for all Synergetics™ products, as well as for most competitive products. Ship items for repair to Customer Service and include a purchase order number for the repair service, along with the owner’s facility name and address, contact person name and phone number, and a description of the need for repair. Upon receipt, we will inspect the item, determine the extent of the repair needed, and issue a quote for your approval. Only upon your approval will any repair be made. In most cases, repaired instruments can be restored to ‘almost new’ condition.

PRODUCT PRICE
List price may change without notice, although all formal quotations are valid for 30 days from the date of issuance.

SHIPMENT OF PURCHASED GOODS
All goods purchased from Synergetics are shipped via UPS, with shipping and insurance charges added to the invoice, unless a customer specifically requests another carrier and provides a charge account number for such carrier.

PAYMENT TERMS
Payment-in-full for all invoices must be received within 30 days of the invoice date.
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