Complete Laparoscopy Solutions
Advances In Minimally Invasive Surgery

Solutions
- Video HD Technology Platform
- MiniLap Instruments
- IDEAL EYES Rigid Laparoscopes
- PneumoSure
- Laparoscopic Instruments
- StrykeFlow 2
- AHTO
- Plume-Away
- Pediatric, Bariatric, Single Incision Offering
As medical video technology continues to evolve and the visual demands of today’s Laparoscopy procedures increase, Stryker has once again responded by raising the bar with the evolution of HD technology. Stryker offers a complete Laparoscopy platform to meet all OR needs with exceptional performance and innovative features. Each device of our offer is designed to meet the specific requirements of the various Laparoscopic surgeries.

**Vision Elect HD and HDTV Flat Panel Monitors**

Designed specifically for the surgical environment, the Vision Elect HD and HDTV Flat Panel Monitors are the ideal complement to the 1288 HD Camera, offering exceptional video quality in a spacious 21-inch and 26-inch display. The Vision Elect HD and HDTV combine versatility with a brilliant picture to provide precise, lifelike images in the OR.

**1288 HD 3-Chip Camera**

The 1288 HD, Stryker’s third generation high definition 3-Chip camera, delivers a unique 1080p resolution with profound depth of focus, and edge-to-edge clarity and sharpness for surgeons. It also features an intuitive touch screen, fully programmable camera head buttons and the ability to control the L9000 LED Lightsource from the camera head. The 1288 HD 3-Chip sets a new standard in visualization products for the OR environment.
The SDC Ultra High Definition Information Management system provides cutting edge features and versatility to the Operating Room. Perfect for education and teaching purposes, the SDC Ultra captures both images and videos in Native Resolution High Definition. The Ultra supports dual channel video inputs, as well as the ability to save/archive information to multiple types of external media, including the 250 GB internal hard drive.

**L9000 Lightsource**

This LED technology sets a change in the perception of lightsources in the operating room. The long life expectancy of the LED bulbs will drastically reduce the overall cost of ownership while reducing the environmental waste and increasing the patient safety.
The Way Surgery Was Meant to be Seen

See why Stryker is a visualization leader in high definition imaging with improved detail recognition, resolution, and excellent durability with the latest generation of IDEAL EYES laparoscopes. Designed to enhance picture quality, IDEAL EYES laparoscopes can optimally support resolution capabilities the Stryker’s latest high definition camera systems are able to provide.

Take A Better Look

Adjusted optical calculations, state of the art glass lenses, and an improved lens design allow for Stryker’s IDEAL EYES laparoscopes to give better image contrast and color reproduction. When paired with the 1288 HD 3-Chip Camera, the IDEAL EYES laparoscopes can provide improved visualization in the OR.

Set Your Sights High

In addition to excellent optical performance, Stryker IDEAL EYES laparoscopes combine high quality sapphires and laser welded leakage paths to ensure durability that will withstand repeated autoclave cycles over time.

Scope Warmer: A Warm Goodbye to Fog

Stryker’s Scope Warmer is a disposable, sterile packaged, self-contained heating device that pre-warms endoscopes to body temperature, overcoming the temperature difference that creates condensation on the endoscope lens.

Stryker’s Scope Warmer is activated without the need for electrical connections or messy saline solutions.

- Disposable, sterile packaged heating device
- Warms several endoscopes at a time
- Foam insert protects the endoscope
IDEAL EYES

Laparoscope Offerings
» 5mm
» 10mm
» 5mm Bariatric
» 10mm Bariatric
» 2.9mm Pediatric

Plume-Away
The Plume-Away 4.0 and Ultra Plume-Away 6.0 are smoke removal systems that provide continuous, automatic removal of harmful surgical smoke produced by electrocautery, laser or ultrasonic devices during laparoscopic procedures. These systems ensure that plume is removed quickly, keeping the surgeon’s field of view clear, while the surgical plume is decontaminated and deodorized for staff safety.

Ultra Plume-Away 4.0
» Increased evacuation of plume, up to 4 L/min
» Reduces need to remove scope for intra-operative cleaning
» Easy to install on a trocar’s side port
» Diminished filter obstruction
» Very effective with both 10mm and 5mm trocars

Ultra Plume-Away 6.0
» Increased evacuation of plume, up to 6 L/min
» Best option for 5mm trocar
» Intended for procedures with a great deal of electrocautery and subsequent plume
» Clears smoke almost instantly
» No loss of pneumoperitoneum
Market Leading Technology

Stryker’s 45L PneumoSure provides unparalleled performance, real time pressure sensing and multiple user modes. With its integrated tube design, the PneumoSure manages unique pressure and flow rates to achieve greater accuracy during procedures. The 45L insufflator is designed to handle a wide variety of cases including pediatrics, bariatrics, and vessel harvesting. Its ability to safely maintain pneumoperitoneum in a range of conditions brings insufflation in the OR to a new level.

» Multiple user modes
» Increased accuracy
» Real time pressure sensing
» Interactive user interface
» Software upgradeable

High Flow Tubing

» Increased flow
» Integrated filter
» Ideal for laparoscopic cases

High Flow with RTP

» Increased accuracy
» Increased flow
» Ideal for advanced laparoscopic cases

Heated Tubing with RTP

» Heated CO₂
» Maintains higher flow rates
» Increased accuracy

Quick & Easy Navigation

Touchscreen Interface

The PneumoSure’s intuitive touchscreen ensures quick and easy navigation through the user menu. The redesigned full color interface was specially designed for surgeons and staff.

» Higher actual flow rate
» Full color touch panel allows for better viewing angles
» SIDNE compatibility allows surgeons to control the insufflator
» Change modes with the touch of a button
Laparoscopic Instruments
Reliability for all Laparoscopic Procedures

Stryker’s laparoscopic instruments are manufactured out of high quality stainless steel in conjunction with the most durable modern materials. Each instrument is created using the latest in computer controlled machine technology and perfected by the highest standards of master hand craftsmanship.

Features & Benefits

**Durability**

- Patient safety
- Longer instrument life
- Reduced maintenance cost

**360° Shaft Rotation**

- One finger control of the instrument
- Variable resistance based on pressure
- Handle design facilities
- Better dexterity
- Decreased finger fatigue due to larger finger rings

**Modular Instrument Design**

- Customization of instrumentation for each user
- Easy disassembly for cleaning and maintenance

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Laparoscopic Instruments
Sliding Lock Graspers

**Features & Benefits**

- High quality medical grade stainless steel handles
- Special & precise ratchet locking mechanism
- Coated shaft using 0.5mm thick Radel tubing to enhance longevity and durability
- Atraumatic single & double action jaws for optimum gripping of tissue
- Offered in both rotating and non-rotating styles
The Evolution of MINIally Invasive Surgery

Stryker distributes a new one-of-a-kind ultra minimally invasive instrument line: MiniLap. These instruments allow for access and instrumentation in one precision-crafted laparoscopic device.

Designed with percutaneous capabilities, MiniLap instruments are 2.3mm in diameter and offer both surgeon and patient benefits. The access insertion needle allows for time-saving entry into the abdominal cavity and also eliminates surgical incision closure at the end of each procedure. MiniLap's ultra slim design and incisionless entry capabilities can help reduce patient scarring.

The stainless steel instrumentation tip and stabilizing pivot disk provide great strength to secure, retract, and manipulate human tissue and organs. Available in multiple tip styles, MiniLap instruments can be used for percutaneous access in a wide variety of laparoscopic procedures.

MiniLap is manufactured by Mini-Lap Technologies Inc., and is distributed by Stryker.
For information regarding this product please contact your local Stryker Representative

MiniLap Bowel Clamp
This grasper is an atraumatic device with slight serrations to grasp and retract sensitive tissue such as the bowel or bladder.

MiniLap Babcock Clamp
This atraumatic device is designed to secure and retract vascular or infundibular structures.

MiniLap Alligator Clamp
This grasper features aggressive jaws that are designed to grab and retract tissue such as the gallbladder, muscle or fascia or specimen tissue.

MiniLap Clutch Clamp
This minimally traumatic device has a set of softened interlocking tines that can help to grasp and retract tissue such as a stomach, esophagus, duodenum, appendix or ovary.

With No Incision

Features & Benefits

» Unique tip closure design to prevent damage of tissue
» Access and instrumentation in one
» No surgical incision closure necessary
» Reduces scarring
» Entry-depth control through retention and pivot disc
» Ease of use
» Retention of abdominal pressure
» Available in a number of commonly used device tip configurations
» Self-sealing without compromising insufflation pressure
» No reprocessing or capital costs

MiniLap
Precision   With No Incision
Spike & Go with StrykeFlow 2

Experience the benefits of great suction irrigation performance. This completely disposable battery powered suction irrigator includes a small, powerful pump that spikes directly into the bag and achieves exceptional flow rates. Hassle free set-up equates to decreased OR preparation and turnover time. Add ease and simplicity to any laparoscopic procedure with StrykeFlow2.

Features & Benefits

- Direct spike into bag for easy setup
- Ergonomic handpiece for ambidextrous grip and comfort
- Variable suction control valve for smoke evacuation
- Pop-top battery housing for easy battery removal
- Compatible with any Stryker suction irrigation tip
- Tubing comes out of back of handpiece to help prevent clogging
AHTO Irrigation Pump

AHTO

The AHTO Irrigation Pump is hassle free and extremely reliable for any general surgical case requiring irrigation. This cordless irrigation console is small, lightweight and extremely intuitive. Interactive flow rate and battery level displays establish a user friendly interface with the surgical staff that equates to efficient setup and turnover of the operating room. The simplicity and functionality of the tube set further exemplifies how beneficial this product is to the surgeon, the patient, and the surgical staff.

Features & Benefits

- Cordless option alleviates clutter in the OR
- Self-priming system
- Displays for flow rate & battery life
- Instant activation upon insertion of cassette tube set
- Simple installation reduces setup time
- Maximum flow rate of 4 L/min
- Up and down toggle buttons for flow control
- Toggle button with battery icon to indicate battery level
- Extended battery life

A large selection of attachments offering various diameters, lengths and designs to meet the requirements of many surgery types. The attachments can be used with Ahto and StrykeFlow2
Stryker recognizes the importance for the specialization of laparoscopic products for both pediatric and bariatric procedures and has worked to design products that cater to the specific needs each specialty requires.

**Pediatric Offerings**

2.9mm IDEAL EYES Pediatric Laparoscopes
- Designed to accommodate small anatomical structures
- 20cm length
- Thicker fiber optic cables for enhanced brightness
- Stryker IDEAL EYES optics for great resolution and color reproduction

3mm Pediatric Laparoscopic Instruments
- Available in 20cm and 29cm length
- PEEK Monopolar and Multifunctional handles for grasping, electrocautery, and dissection capabilities
- Wide variety of available insert graspers, dissectors, scissors, biopsy and needleholders

**Bariatric Offerings**

Bariatric Length IDEAL EYES Laparoscopes
- Available in both 5mm and 10mm diameters
- Extended length of 45cm, great for bariatric procedures and single incision surgery
- New lenses and fiber cables for improved light transmission
- IDEAL EYES optics for enhanced resolution and less image distortion
- Improved depth of field to enhance the distance of intraoperative focus inside the abdominal cavity

5mm Bariatric Length Laparoscopic Instruments
- 45cm length for bariatric procedures
- Variety of handle and insert styles for grasping, dissecting, suturing, and cutting capabilities
- Bariatric length rotating and non-rotating sliding lock graspers for an ergonomic and precise ratcheting mechanism

**PneumoSure Insufflator with Pediatric Mode**
- 510(k) clearance for pediatric mode
- Designed specifically for use on newborns, infants, and children
- Limits the maximum flow rate and pressure to protect against over-pressurization of the abdominal cavity

**PneumoSure Insufflator XL with Bariatric Mode**
- Specifically designed for rapid insufflation of large volumes for bariatric procedures
- Bariatric mode allows for a high flow rate of up to 45L/m
- Real-time pressure sensing to constantly measure pressure within the abdominal cavity and optimize insufflation performance
**Single incision Offerings**

**MiniLap**

MiniLap’s line combines access and instrumentation in one device. These 2.3mm ultra minimally invasive instruments assist in the manipulation, retracting, and grasping of human tissue while reducing patient scarring and eliminating the necessity of port suture closure.

**1288 Inline Camera Head**

It is designed to enhance ergonomics during single port surgeries, by creating great work space for the manipulation of laparoscopic instruments during single port surgeries. Stryker’s Ideal Eyes 45cm laparoscopes and 1288 HD inline camera head provide great functionality and visualization for single port surgeries.

**IDEAL EYES 5mm Bariatric Length (45cm)**

Providing excellent visualization, Stryker’s 45cm IDEAL EYES laparoscopes offer extended length to allow for the off-setting of instrumentation during single port surgery.

**Laparoscopic Instruments 33cm and 45cm**

Stryker’s durable laparoscopic instruments are offered in both 33cm and 45cm lengths to allow for the off-setting of instrumentation during single incision surgery. This design decreases instrument interference and creates great work space to maneuver instrumentation.

**Shared products**

**Scope Warmers**

» Disposable, sterile packaged heating device
» Foam insert protects the endoscope lens and allows for the application of Fog Blocker
» A perfect compliment to Stryker’s bariatric length IDEAL EYES laparoscopes

**Plume-Away**

» Intended for long procedures with a great deal of electocautery and subsequent plume
» No loss of pneumoperitoneum

**Suction Irrigation**

» Great suction irrigation performance
» Exceptional flow rates
» Hassle free set-up equates to decreased OR preparation and turnover time
» Ease and simplicity to any laparoscopic procedure with StrykeFlowII or Ahto
» Multitude of attachments able to accommodate Bariatric, pediatric, Mini-lap or standard procedures
This document is intended solely for the use of healthcare professionals.

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product.

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The products listed above are CE marked according to the Medical Device Directive 93/42/EEC.