BPL Medical Technologies

Experience the Precision

BPL

Happier Living Everyday

SURGICAL DIATHERMY

SURGIX-VS1

Complete ESU Solution

Surgical Diathermy: 400W, one monopolar & one bipolar
Vessel Sealing System: Two vessel sealing modes
Saline Plasma Resection: Three modes each in cut & coag

Touch Screen Display
5.6" color LCD touch screen for user friendly interface

Monopolar
7 Cut Modes; 7 Coag modes

Bipolar
4 Bipolar Modes with independent settings and activation

Smart Bipolar
Audio Feedback after completion of coag to reduce charring & sticking

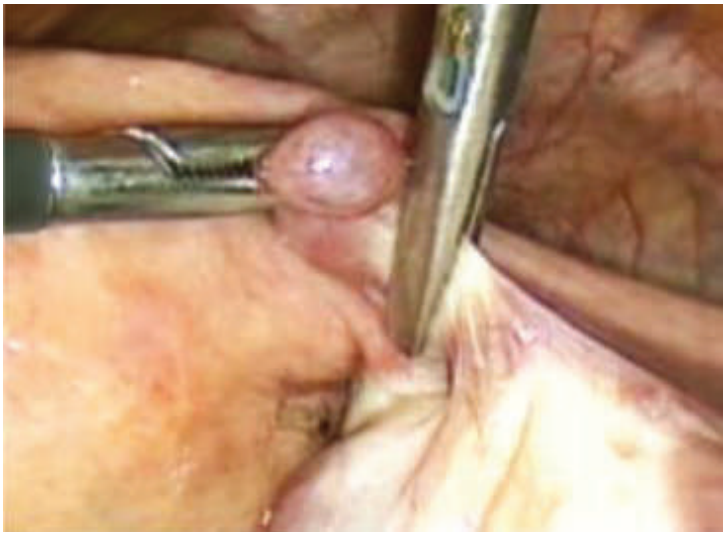
Advanced Feedback Technology
ESU maintains the set power over wider range of tissue by continuous feedback, no need to adjust the power as tissue changes

Safety Monitoring
Ensures utmost safety with patient plate contact quality monitoring and HF leakage monitoring

Self Test
The machine conducts automatic self-test on startup

Personalized Settings
Allow to personalize settings with upto 100 programs in memory

VESSEL SEALER



Consistent, Reliable Trusted vessel sealing

Vessel sealing system delivers RF energy along with calibrated pressure to seal the vessel & Tissue Bundle

Advanced Feedback Technology monitors changes in tissue impedance 4000 times a second & adjust energy output accordingly to deliver the appropriate amount of energy so as to achieve desired clinical effect.

Features

- Sealing Blood vessels of up to 7mm in Diameter
- Seals withstand 3 times normal systolic Blood pressure
- Advanced Feedback technology automatically discontinues energy delivery when the seal cycle is complete, eliminating the thermal damage
- Significantly reduces operative blood loss & procedure time
- Minimum cost per case due to reusable attachments

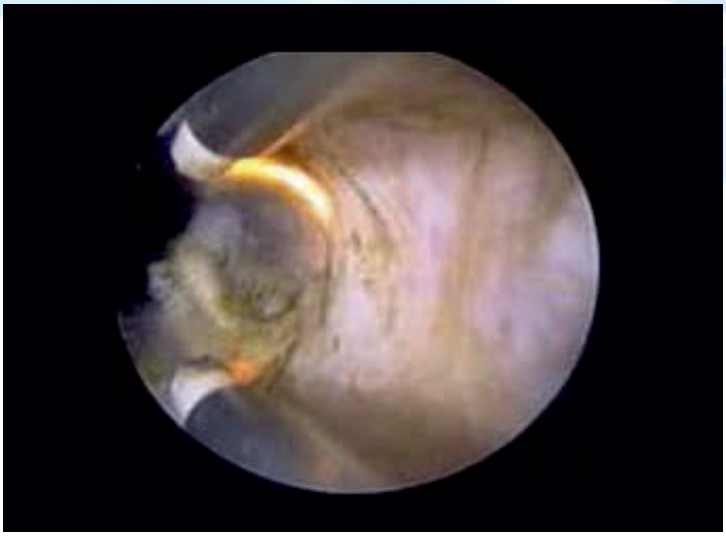
Open Clamp

Lapro 5mm reusable instrument

Applications

- Abdominal Hysterectomy • Adrenalectomy
- Appendectomy • Colectomy • Colon Resection • Cystectomy
- Gastrectomy • Gastric Bypass • Hemorrhoidectomy • Lap-Cholecystectomy
- Lap-Assisted Vaginal Hysterectomy (LAVH) • Liver Resection • Nephrectomy • Nissen Fundoplication
- Radical Hysterectomy • Radical Prostatectomy • Splenectomy • Salpingo-oophorectomy
- Vaginal Hysterectomy • Whipple

SALINE PLASMA RESECTION



A Plasma Corona generated in saline medium due to discharge of highly energized electric current. The mobility of ions around the loop creates a cutting effect. Sufficient amount of haemostasis enables coagulation of the capillary bleeders with resection.

By applying low voltage energy, resistive heating of tissue achieves coagulation and the depth is controlled by firm application of pressure with sufficient amount of time to control the bleeders

Advantage

- Saline solution virtually eliminates the risk of TUR syndrome
- Allows longer resection with safety for the larger prostate, avoids open prostatectomy
- Less blood loss due to superficial haemostasis
- Improved visualization by simultaneous resection and vaporization
- Avoids obturator nerve reflections by use of Bipolar energy
- Eliminates the chances of burns due to Patient return electrode
- Minimises the thermal damage of adjacent tissue, resulting in shorter recovery period

Applications

- TURP (Transurethral Resection Prostate)
- TCRE (Trans Cervical Resection Endometrium)
- TURBT (Transurethral Resection of Bladder Tumor)
- Hysteroscopy
- Arthroscopic Surgery

Product Specifications

Monopolar Cut	
Low	300 W at 300 Ω, CF 1.5, 390 kHz
Pure	400 W at 300 Ω, CF 1.5, 390 kHz
Blend 1	250 W at 300 Ω, CF 2.1, 390 kHz - recurring at 28 kHz intervals. 65% duty cycle
Blend 2	200 W at 300 Ω, CF 2.4, 390 kHz - recurring at 32 kHz intervals. 55% duty cycle
GI CT 1	400 W at 300 Ω, CF 1.5, 390 kHz - Pulse interval controlled depends on tissue feedback
GI CT 2	400 W at 300 Ω, CF 1.5, 390 kHz - greater pulse interval time than GI CT1
Fluid	400 W at 300 Ω, CF 1.5, 390 kHz

Product Specifications

Monopolar Coagulation	
Soft	300 W at 300 Ω, CF 1.5, 390 kHz - Sinusoidal wave
Touch	200 W at 500 Ω, CF 4.0, 460 kHz - damped sinusoid recurring at 84kHz
Desiccate	120 W at 500 Ω, CF 5.0, 460 kHz - damped sinusoid recurring at 48kHz.
Fulgurate	120 W at 500 Ω, CF 6.6, 460 kHz - damped sinusoid recurring at 30kHz
Spray	120 W at 500 Ω, CF 8.0, 460 kHz - damped sinusoid repeated at randomized frequencies 30 kHz < f <50 kHz
Hi Spray	70 W at 500 Ω, CF 10.0, 460 kHz - damped sinusoid recurring at 13kHz
Fluid	120 W at 500 Ω, CF 6.6, 460 kHz - damped sinusoid recurring at 30kHz.
Bipolar	
Micro	120 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 400 volts
Standard	120 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 550 volts
Force	120 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 700 volts
BiCut	120 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 700 volts
Vessel Sealer	
Fine	150 W at 100 Ω, CF 1.5, 440 kH, low pulse output, 5 level
Fast	150 W at 100 Ω, CF 1.5, 440 kHz, High pulse output, 5 level
Saline Plasma	
NS CT1	300 W at 100 Ω, CF 1.6, 390 kHz sinusoidal; P-P Voltage 1000 volts
NS CT2	300 W at 100 Ω, CF 1.6, 390 kHz sinusoidal; P-P Voltage 1000 volts
NS CT3	300 W at 100 Ω, CF 1.6, 390 kHz sinusoidal; P-P Voltage 1000 volts
NS CG1	200 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 380 volts
NS CG2	200 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 450 volts
NS CG3	200 W at 100 Ω, CF 1.5, 440 kHz sinusoidal; P-P Voltage 500 volts

Environment Specification		
	Working	Transport and Storage
Temperature	10°C to 40°C	-40° to 70°C
Relative humidity	30% to 75%, noncondensing	10% to 100%, condensing
Power Supply	110 V / 230 V ; 50 to 60Hz	
Dimension	45.6 x 35.5 x 16.6 (L x W x H in cm)	
Weight	< 9 kg	

Standard Accessories			
Power Cord	1 No.	Set Of Electrodes, 5cm (Ball, Needle, Angled	1 No.
Patient return electrode, Rubber	1 No.	Sealing Clamp Coated, 23cm 5mm tip with Cable	1 No.
Cord for Patient return electrode	1 No.	Sealer Handle 5mm with Cable	1 No.
Footswitch, Double Paddle	2 No	Sealer Insert, Straight, Diameter 5mm, 32cm	1 No.
Foot switching chuck Handle, large pin	1 No.	Sealer Insert, Maryland, Diameter 5mm, 18cm	1 No.
Monopolar Hand switching pencil (Reusable)	1 No.	Lure Lock with RF Pole	1 No.
Universal Adaptor	1 No.	RF cable	1 No.
Bipolar Forceps, straight non-stick, 20cm, 1mm tip	1 No.	Saline Loop, Wedge Single Stem	2 No
Cord for Bipolar Forceps	1 No.		

*Technical specification subject to change

CERTIFIED ISO 13485 : 2016 COMPANY

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