ELECTROSURGICAL UNIT

NEW ZEUS VISION

Tissue Impedance & Auto Stop

T.U.R.P. & Vessel Sealing

www.01zeus.com

ZERONE

Electrosurgical Unit

ZEUS VISION

- Main Frequency : 400, 500KHz
- Power Source : 100-240V~ 50/60Hz
- Protection Class : Class 1, Type CF
- Dimension(WxDxHmm) : 388×410×160
- Weight : 11Kg

UPGRADE VERSION

Output Specification

Basic

Mode		Output Power
CUT	Pure	400W / 500Ω
	Blend1	250W / 400Ω
	Blend2	200W / 400Ω
	Blend3	150W / 400Ω
Coagulation	Soft	100W / 50Ω
	Contact	120W / 300Ω
	Spray	100W / 500Ω
	Argon	100W / 500Ω
Bipolar Coagulation	Standard	100W / 100Ω
	Auto Start	100W / 100Ω
	Forced	80W / 100Ω
Bipolar Cut	Bip. Cut	120W / 500Ω
	Bip. Blend	100W / 500Ω
Endo Cut	Polypectomy	350W / 500Ω

Option 1

Bipolar	TURP Cut	200W / 500Ω
	TURP Coag.	200W / 50Ω

Option 2

Bipolar Coag.	Seal	250W / 25Ω

Option 3

Bipolar	TURP Cut	200W / 500Ω
	TURP Coag.	200W / 50Ω
Bipolar Coag.	Seal	250W / 25Ω

Feature

Basic

Technology of Tissue Impedance

Technology of Tissue Impedance provides doctors with improved result at lower power settings, minimizing the risk of tissue damage and neuromuscular stimulation. It has feedback system that recognize changing impedance of tissue and adjusts voltage and current accordingly to maintain appropriate power.

Option 1

T.U.R.P.

Transurethral resection of the prostate (commonly known as a TURP, plural TURPs, and rarely as a transurethral prostatic resection, TUPR) is a urological operation. It is used to treat benign prostatic hyperplasia (BPH). As the name indicates, it is performed by visualising the prostate through the urethra and removing tissue by electrosurgical unit or sharp dissection.

Option 2

Vessel Sealing

Vessel sealing technology uses pressure and energy to seal vessels and offers major advantages in the field of endoscopic surgery. Bipolar Vessel Sealing is an electrosurgery technology for sealing blood vessels of up to 7mm in diameter. Technology of Vessel Sealing enables permanent sealing of large blood vessels and bundle of tissues during open and laparoscopic surgery.
Based on Technology of Tissue Impedance, as soon as sealing in the tissue has been completed, the AUTO STOP function blocks the current flow. The tissue is now denatured and sealed, and the collagen fibers are linked without damage.

Option 3

T.U.R.P. + Vessel Sealing

2 Special Functions in 1 unit

Output Specification

Basic

Mode		Output Power
CUT	Pure	400W / 200Ω
	Blend 1	250W / 200Ω
	Blend 2	200W / 200Ω
	Blend 3	150W / 200Ω
Coagulation	Contact	120W / 200Ω
	Spray	100W / 300Ω
	Argon	100W / 300Ω
Bipolar Coagulation	Standard	100W / 100Ω
	AutoStart	100W / 100Ω
	Forced	80W / 100Ω
Bipolar Cut	Cut	120W / 200Ω
	Blend	100W / 200Ω

- Main Frequency : 400, 500KHz
- Power Source : AC120V or AC230V, 50Hz / 60Hz
- Protection Class : Class 1, Type CF
- Dimension(WxDxHmm) : 388×410×160
- Weight : 12.5Kg

Option 1

Coagulation	Soft	80W / 100Ω
Endo Cut	Papillotomy	150W / 100Ω
	Polypectomy	150W / 100Ω

Feature

• Color Graphic User Interface

Wide TFT LCD mount, clean and sharper image quality, unlike the existing electricity and the innovative new U.I. configuration operation.

• Best Safety with Feedback System

REM(Return Electrode Monitoring) function monitors the size of contact area between a patient and the pad. If the size is inappropriate, it automatically blocks the high-frequency current to minimize the danger of burning incidents.

• 7inch touch Screen System & key

Touch screen system through the implementation easier and faster with a parameter setting, external key management can be the same as a touch screen.

• Diversity of Feature Bipolar

Bipolar Cut, Bipolar Blend, Bipolar Forced to add features to implement more up-grade the optimal system.

• Memory Function

99 storages are available.

Option 1 **Endo Cut(Intra Cut)**

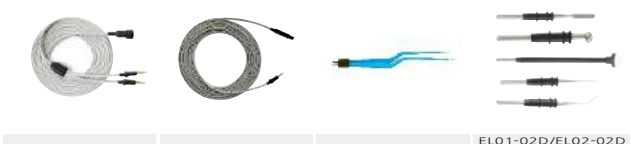
Endo-cut is a monopolar electrosurgical treatment method and a cut which is carried out intervals(fractionated cut) with software-controlled alternations between cutting and coagulation stages.

Standard Accessories

Code No.	Name of Item
FS02-01R	Double Foot Switch
FS01-01R	Single Foot Switch * Not included in upgrade version
HD02-01D	Disposable Twin Button Handle
HD01-02R	Monopolar Handle & Cable
PL02-01R	Silicon Patient Plate(240X150mm)
PL03-02D	Disposable Patient Plate (5ea)
CA02-02R	Patient Return Plate Cable
CA03-01R	Ground Cable
CA01-02R	Bipolar Forceps Cable
CA08-01R	Monopolar Connecting Cable(For Endo Cut*3Φ Connector)
BF01-01R	Bipolar Forceps(Bayonet 17.8cm 1.0 Tip)
EL01-02D	Electrode(Knife 2.4*70mm)
EL02-02D	Electrode(Ball 5mm)
EL03-02D	Electrode(Loop 6mm)
EL04-02D	Electrode(Needle 2.4*70mm)
EL04-04D	Electrode(Needle Angled 2.4*70mm)

FS02-01R | * FS01-01R | HD02-01D | HD01-02R

PL02-01R | PL03-02D | CA02-02R | CA03-01R



CA01-02R | CA08-01R | BF01-01R | EL01-02D/EL02-02D EL03-02D/EL04-02D EL04-04D

Electrosurgical Unit

ZEUS-400/300/200

UPGRADE VERSION

The upgrade version provide safety flexibility
and convenience by powerful and stable technology.

10 storages are available by using user storage function.
Bipolar cut function is available.

- Main Frequency : 400, 500KHz
- Power Source : AC120V or AC230V, 50Hz / 60Hz
- Protection class : Class 1, Type CF
- Dimension(WxDxH mm) 330x455x150
- Weight : 13.0Kg

Output Specification

Mode	ZEUS series UPGRADED VER.		
	ZEUS-400	ZEUS-300	ZEUS-2
Pure cut	400W / 300Ω	300W / 300Ω	200W / 3
Blend 1	250W / 300Ω	230W / 300Ω	150W / 3
Blend 2	200W / 300Ω	180W / 300Ω	120W / 3
Blend 3	150W / 300Ω	120W / 300Ω	100W / 3
Contact Coag.	120W / 300Ω	100W / 300Ω	100W / 3
Spray Coag.	100W / 300Ω	80W / 300Ω	80W / 3
Bipolar Coag.	100W / 100Ω	80W / 100Ω	80W / 1
Bipolar Cut	100W / 200Ω	80W / 200Ω	80W / 2

Standard Accessories

Code No.	Name of Item
FS02-01R	Double Foot Switch
FS01-01R	Single Foot Switch
HD02-01D	Disposable Twin Button Handle
HD01-01R	Monopolar Handle & Cable
PL02-04R	Silicon Patient Plate(240X150mm)
PL03-02D	Disposable Patient Plate (2ea)
CA02-03R	Patient Return Plate Cable
CA03-01R	Ground Cable
CA01-01R	Bipolar Forceps Cable
BF01-01R	Bipolar Forceps(Bayonet 17.8cm 1.0 Tip)
EL01-02D	Electrode(Knife 2.4*70mm)
EL02-02D	Electrode(Ball 5mm)
EL03-02D	Electrode(Loop 6mm)
EL04-02D	Electrode(Needle 2.4*70mm)
EL04-04D	Electrode(Needle Angled 2.4*70mm)

Application

- General Surgery
- Dermatology
- Vascular Surgery
- Gynecology
- ORL/ENT
- Pediatric Surgery
- Urology
- Orthopedics
- Oral Surgery
- Plastic Surgery
- Endoscopy

Feature

- A display window allows you to easily check output value, indicated as digits.
- Unit provides various functions that are required to perform an operation as functional cut mode (Pure cut, Blend1, Blend2, Blend3)Coagulation mode(Spray coag., Contact coag.), Bipolar coag. mode by hand or foot, Bipolar cut(upgrade version only).
- Each working condition can be checked by sound and indication lamp.
- Hand bipolar(Auto bipolar)can be checked only by contacting Forceps.
- Unit output strong and stable power by micro-processor.
- Input power frequency is automatically detected.

Electrosurgery unit

ZEUS-400/300/200

S-200	ZEUS-400	ZEUS-300	ZEUS-200
/ 300Ω	400W / 300Ω	300W / 300Ω	200W / 300Ω
/ 300Ω	250W / 300Ω	230W / 300Ω	150W / 300Ω
/ 300Ω	200W / 300Ω	180W / 300Ω	120W / 300Ω
/ 300Ω	150W / 300Ω	120W / 300Ω	100W / 300Ω
/ 300Ω	120W / 300Ω	100W / 300Ω	100W / 300Ω
/ 300Ω	100W / 300Ω	80W / 300Ω	80W / 300Ω
/ 100Ω	99W / 100Ω	80W / 100Ω	80W / 100Ω
/ 200Ω			

※ In case of Zeus-200, receptacle part is little different than Zeus-400/300, When customer buys Zeus-200, please check.

FS02-01R

FS01-01R

HD02-01D

HD01-01R

PL02-04R

PL03-02D

CA02-03R

CA03-01R

CA01-01R

BF01-01R

EL01-02D/EL02-02D
EL03-02D/EL04-02D/EL04-04D

The ZEUS series provide safety flexibility and convenience by powerful and stable technology.

- Main Frequency : 400, 500KHz
- Power Source : AC120V or AC230V, 50Hz or 60Hz
- Protection class : Class 1, Type CF
- Dimension(WxDxH mm) 330x455x150
- Weight : 13.0Kg

Application

- General Surgery
- Dermatology
- Vascular Surgery
- Gynecology
- ORL/ENT
- Pediatric Surgery
- Urology
- Orthopedics
- Oral Surgery
- Plastic Surgery
- Endoscopy

Safety Function

- A fuse which is built in a power circuit board prevents over current from flowing through the equipment
- When the plate attached to the patient is disconnected from the unit, red alarm light begins flickering. If press any button of the twin button handle or press any pedal of double foot switch, alarm sound is made but the unit doesn't work.
- REM(Return Electrode Monitoring) function monitors the size of contacting area between a patient and the pad.

  If size is inappropriate, it automatically blocks the high-frequency current to minimize the danger of burning incident.
- To protect a patient, the case is fully grounded so that a leakage current can flow into the earth.

Electrosurgical Unit

ZEUS-200S/150

- Main Frequency : 400, 500KHz
- Power Source : AC120V or AC230V, 50Hz / 60Hz
- Protection Class : Class 1, Type CF
- Dimension(WxDxHmm) : 330×320×150
- Weight : 8.0Kg

Output Specification

Mode	ZEUS-200S	ZEUS-150
Pure Cut	200W / 200Ω	150W / 200Ω
Blend Cut 1	150W / 200Ω	120W / 200Ω
Blend Cut 2	120W / 200Ω	100W / 200Ω
Contact Coagulation	80W / 200Ω	80W / 200Ω
Spray Coagulation	80W / 500Ω	60W / 500Ω
Bipolar Coagulation	80W / 100Ω	80W / 100Ω

Feature

• Various Function with Compact Design

Cut(Pure Cut, Blend 1, Blend 2), Coag.(Contact, Spray), Bipolar Coag.; Fully enough for most of the operations.

• Best Safety with Feedback System

REM(Return Electrode Monitoring) function monitors size of contact area between a patient and the pad.
If contact is inappropriate, it automatically blocks the high-frequency current to minimize the danger of burning incident.

• Different Tone Audible Sound

Each working condition can be checked by sound and indication lamp
The level if alarm sound can be adjusted during an operation of application mode.

• Auto Select Function

Without pressing cut or coag. button, use twin button handle or double foot switch for working cut or coag. mode.
Press each mode button for 3 sec., output power will be set 1W, it enables to adjust from 1W to maximum power quickly.

Standard Accessories

Code No.	Name of Item
FS02-01R	Double Foot Switch
HD02-01D	Disposable Twin Button Handle
HD01-01R	Monopolar Handle & Cable
PL02-04R	Silicon Patient Plate(240X150mm)
PL03-02D	Disposable Patient Plate (2ea)
CA02-03R	Patient Return Plate Cable
CA01-01R	Bipolar Forceps Cable
BF01-01R	Bipolar Forceps(Bayonet 17.8cm 1.0 Tip)
EL01-02D	Electrode(Knife 2.4*70mm)
EL02-02D	Electrode(Ball 5mm)
EL03-02D	Electrode(Loop 6mm)
EL04-02D	Electrode(Needle 2.4*70mm)
EL04-04D	Electrode(Needle Angled 2.4*70mm)

FS02-01R

HD02-01D

HD01-01R

PL02-04R

PL03-02D

CA02-03R

CA01-01R

BF01-01R

EL01-02D / EL02-02D
EL03-02D / EL04-02D / EL04-04D

Electrosurgical Unit

ZEUS-100/80

Output Specification

Mode	ZEUS-100	ZEUS-80
Pure Cut	100W /300Ω	80W /300Ω
Blend Cut	100W /300Ω	80W /300Ω
Contact Coagulation	60W /300Ω	50W /300Ω
Bipolar Coagulation	80W /100Ω	70W /100Ω

· Main Frequency : 1.6MHz
· Power Source : AC120V or AC230V, 50Hz / 60Hz
· Protection Class : Class 1, Type BF
· Dimension(WxDxHmm) : 270×310×110
· Weight : 6.0Kg

Standard Accessories

Code No.	Name of Item
FS01-01R	Single Foot Switch
HD02-01D	Disposable Twin Button Handle
PL02-05R	Silicon Patient Plate(165X90mm)
EL01-02D	Electrode(Knife 2.4*70mm)
EL02-02D	Electrode(Ball 5mm)
EL04-02D	Electrode(Needle 2.4*70mm)
EL04-04D	Electrode(Needle Angled 2.4*70mm)

FS01-01R

HD02-01D

PL02-05R

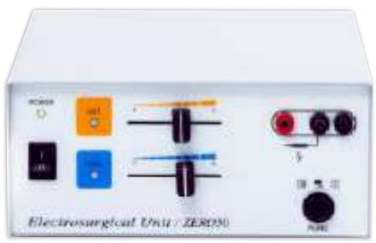
EL01-02D / EL02-02D
EL04-02D / EL04-04D

Electrosurgical Unit

ZERO 50

Output Specification

Mode	ZERO50	
Cut	50W /300Ω	
Coagulation	40W /300Ω	



· Main Frequency : 1.6MHz
· Power Source : AC120V or AC230V, 50Hz / 60Hz
· Protection Class : Class 1, Type BF
· Dimension(WxDxHmm) : 200×220×90
· Weight : 2.6Kg

Standard Accessories

Code No.	Name of Item
HD02-01D	Disposable Twin Button Handle
PL02-03R	Silicon Patient Plate(110X80mm)

HD02-01D

PL02-03R

Argon plasma Coagulator

ARGON-Z

Feature

- Convenient LCD display on the front plate.
- Resection and coagulation by Argon Twin Button Handle.
- Foot switch is available for cutting and coagulation.
- 9 storages are available by using user storage function.
- Even coagulation by contactless coagulation.
- Small carbonization and almost none sticking.
- Fast hemostasis, when massive bleeding.
- Easy and clean range of vision due to small smoke.

ARGON-Z Specification

Rated Voltage	100V - 240V~	Minimum Purity of Argon	99.998%
Rated Frequency	50Hz / 60Hz	Argon Gas Flow, CUT	0.1 l/min ~ 9.9 l/min
Power Consumption	50VA + 10%	Argon Gas Flow, COAG.	0.1 l/min ~ 9.9 l/min
Fuse	T1AL 250V	Minimum Cylinder Pressure	200bar(20MPa)
Protection Class	Class 1, Type CF	Weight	6 Kg
Input Pressure	Min 2.5bar(250kpa) ~ Max 4.5 bar(450kpa)	Dimension(WxDxH)	330x380x130 mm

Standard Accessories

Code No.	Name of Item
FS02-02R	Double Foot Switch
CA05-01R	Foot Switch Signal Cable
CA06-01R	Monopolar Cable
TB01-01R	Luer Lock Tube
CA07-02R	Reusable Flexible Argon Probe Cable
AP01-02R	Reusable Flexible Argon Probe
CA03-01R	Ground Cable
CA03-02R	Ground Cable (2ea)
RG01-01R	Regulator

FS02-02R

CA05-01R

CA06-01R

TB01-01R

CA07-02R

AP01-02R

CA03-01R

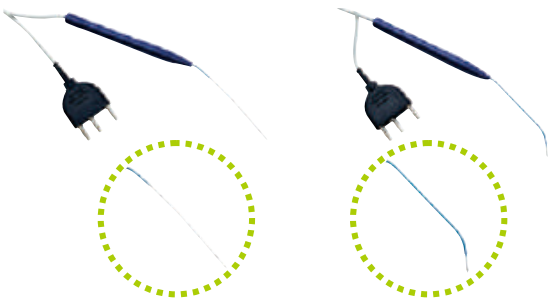
CA03-02R*2

RG01-01R

Output Specification

Mode	Output Power	Carrier Freq.	Duty Rate
Cut	25W/600Ω	485KHz	100%
Coagulation	30W/100Ω	485KHz	100%

Rated Voltage	100-240V~
Rated Frequency	50/60Hz
Power Consumption	140VA+10%
Fuse	T1.6ALAC250V
Protection class	Class1, Type BF
Leakage current	In acc. With IEC601,Part2-2
Carrier Frequency	485KHZ
Size(WXDXH)	330mmX320mmX150mm
Weight	5.5Kg
Operation Cycle	10sec ON 30 Idle(recommended)



Standard Accessories

Code No.	Name of Item
HD03-01D	Sens Probe
FS02-02R	Double Foot Switch
PL02-02R	Silicon Patient Plate
HD01-02R	Monopolar Handle
EL06-03D	Wire Straight Electrode

HD03-01D

FS02-02R

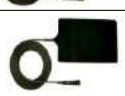
PL02-02R

HD01-02R

EL06-03D

Features	Applications
▸ Provide Pure cut and Bipolar coagulation function in one unit ▸ There are two independent displays (CUT and COAG.) ▸ Distinguish Cut from Coag. By lamp, while device works ▸ Available 10 memories to save user's value ▸ After power off and get back, last set output value is displayed ▸ Adjustable working sound and Alarm volume from 1 to 9 ▸ Available free voltage ▸ Suitable for a wide range of ENT application ▸ Simple and safe operation ▸ 3D-impedance feedback control:automatic monitoring and regulation process ▸ Auto-stop function	▸ Multi-level treatment of sleep- related breathing disorders, such as occasional or habitual snoring as well as mild cases of obstructive sleep apnoea ▸ Nasal concha hyperplasia ▸ Palatine tonsil hyperplasia ▸ Nasal polyp ▸ Excess mucous membrane around the palatine arches ▸ Uvula hyperplasia ▸ Treatment of tumours in the head-neck area ▸ Treatment in the region of the larynx, e.g. spasmodic dysphonia"

Accessories

Accessory	Code No.	Name of Item	Specification
	FS01-01R	Single Foot Switch	3pin Plug Cable 4m
	FS02-01R	Double Foot Switch	4pin Plug Cable 4m
	PL02-01R	Silicon Patient Plate	240mm x 150mm 6.3Pie Plug Cable 3m
	PL02-02R	Silicon Patient Plate	165mm x 90mm 6.3Pie Plug Cable 2m
	PL02-03R	Silicon Patient Plate	110mm x 80mm 6.3Pie Plug Cable 2m
	PL02-04R	Silicon Patient Plate	240mm x 150mm ValleyLab Type Plug Cable 3m
	PL02-05R	Silicon Patient Plate	165mm x 90mm ValleyLab Type Plug Cable 2m
	PL02-06R	Silicon Patient Plate	110mm x 80mm ValleyLab Type Plug Cable 2m
	PL03-02D	Disposable Patient Plate	Adult Dual (120㎠)
	PL03-03D	Disposable Patient Plate	Pediatric Dual (66㎠)
	HD01-01R	Monopolar Handle & Cable	Silicon Cable 4ø 3m
	HD01-02R	Monopolar Handle & Cable	Silicon Cable 4ø 3m
	HD02-01D	Disposable Twin Button Handle	3pin Plug Cable 3m
	CA01-01R	Bipolar Forcep Cable	2pin Plug Cable 3m EN Type Connector
	CA01-02R	Bipolar Forcep Cable	2pin Plug Silicon Cable 3m EN Type Connector
	CA01-03R	Bipolar Forcep Cable	2pin Plug Silicon Cable 3m EU Type Connector
	CA01-04R	Laparoscopy Bipolar Connecting Cable	Silicon Cable, 3m
	CA01-06R	Bipolar Sealer Cable	Silicon Cable 4Ø, 3m
	CA01-07R	Vessel Sealing Cable	2pin Plug Silicon, Cable 3m, EU Type connector
	CA03-01R	Ground Cable	Cable 4ø, 3m

Accessories

Accessory	Code No.	Name of Item	Specification
	CA08-01R	Monopolar Connecting Cable	3Ø Connector, 4m
	CA08-02R	Monopolar Connecting Cable	4Ø Connector, 4m
	CA08-03R	Monopolar Connecting Cable	4.2Ø Connector, 4m
	CA02-02R	Patient Return Plate Cable	6.3Pie Plug Silicon Cable 3m
	CA02-03R	Patient Return Plate Cable	ValleyLab Type Plug Silicon Cable 3m
	BF01-01R	Bipolar Forceps	Bayonet 17.8cm 1.0 Tip
	BF01-02R	Bipolar Forceps	Bayonet 15.2cm 1.0 Tip
	BF02-01R	Bipolar Forceps	Straight 9.0cm 0.5 Tip
	BF02-02R	Bipolar Forceps	Straight 12.1cm 1.0 Tip
	BF02-03R	Bipolar Forceps	Straight 17.8cm 1.0 Tip
	BF03-01R	Bipolar Forceps	Angled 9.0cm 0.5 Tip
	BF03-02R	Bipolar Forceps	Angled 17.8cm 1.0 Tip
	EL01-02D	Electrode	Knife 2.4 * 70mm Black
	EL02-02D	Electrode	Ball 5mm Black
	EL03-02D	Electrode	Loop 6mm Black
	EL04-02D	Electrode	Needle 2.4 * 70mm Black
	EL04-04D	Electrode	Needle Angled 45º 2.4 * 70mm Black
	CT01-01R	CART	W390 x D480 x H850
	HD03-02D	Sens Probe	3 Pin Plug Cable 3m
	HD03-01D	Sens Probe	2 Pin Plug Cable 3m

ZERONE

(Shinil IT UTO, Dangjeong-dong) 8F, 13 LS-Ro, Gunpo Si, Gyeonggi-Do, Korea
TEL : 82-31-689-5610 FAX : 82-31-453-5444 E-mail : peter@01zeus.com
www.01zeus.com