



# *Electrosurgical Unit*





**FOR YOUR  
RELIABLE SURGERY**



## **DESIGNED, DEVELOPED, AND MADE IN KOREA**

We, ZERONE are a manufacturer of medical device and specialized in surgery and treatment. We work under strict policy of quality control and orient excellent performance.

We promise to provide the best competitiveness aiming user's satisfaction.

## 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	Image			
FS02-01R	Double Foot Switch				
FS01-01R	Single Foot Switch <i>* Not included in upgrade version</i>				
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)				
CA01-02R	Bipolar Forceps Cable				
CA08-01R	Monopolar Connecting Cable				
BF01-01R	Bipolar Forceps				
					EL01-02D/EL02-02D EL03-02D/EL04-02D EL04-04D

**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

**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.

**Output Specification**

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

**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)

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.

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.

# 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 of 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)	EL01-02D / EL02-02D EL03-02D / EL04-02D / EL04-04D			

## 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



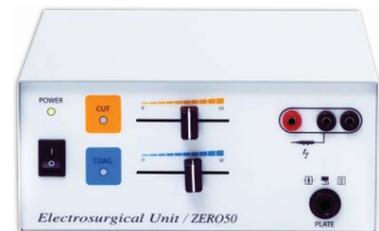
- Main Frequency : 1.6MHz
- Power Source : AC120V or AC230V, 50Hz / 60Hz
- Protection Class : Class 1, Type BF
- Dimension(WxDxHmm) : 270×310×110
- Weight : 6.0Kg

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

## 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-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

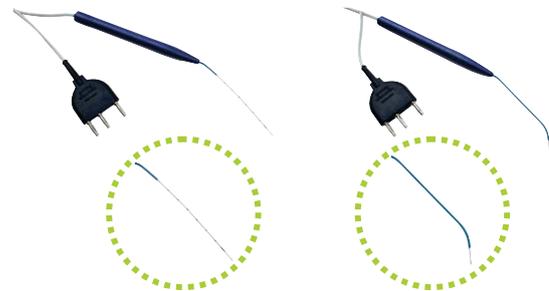
## Standard Accessories

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

## 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

- ▶ 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

### Applications

- ▶ 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

<i>Accessory</i>	<i>Code No.</i>	<i>Name of Item</i>	<i>Specification</i>
	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 (120cm <sup>2</sup> )
	PL03-03D	Disposable Patient Plate	Pediatric Dual (66cm <sup>2</sup> )
	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

<i>Accessory</i>	<i>Code No.</i>	<i>Name of Item</i>	<i>Specification</i>
	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 1.0Tip
	BF01-02R	Bipolar Forceps	Bayonet 15.2cm 1.0Tip
	BF02-01R	Bipolar Forceps	Straight 9.0cm 0.5Tip
	BF02-02R	Bipolar Forceps	Straight 12.1cm 1.0Tip
	BF02-03R	Bipolar Forceps	Straight 17.8cm 1.0Tip
	BF03-01R	Bipolar Forceps	Angled 9.0cm 0.5Tip
	BF03-02R	Bipolar Forceps	Angled 17.8cm 1.0Tip
	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 45° 2.4 * 70mm Black
	CT01-01R	CART	W390xD480xH850
	HD03-02D	Sens Probe	3 Pin Plug Cable 3m
	HD03-01D	Sens Probe	2 Pin Plug Cable 3m



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