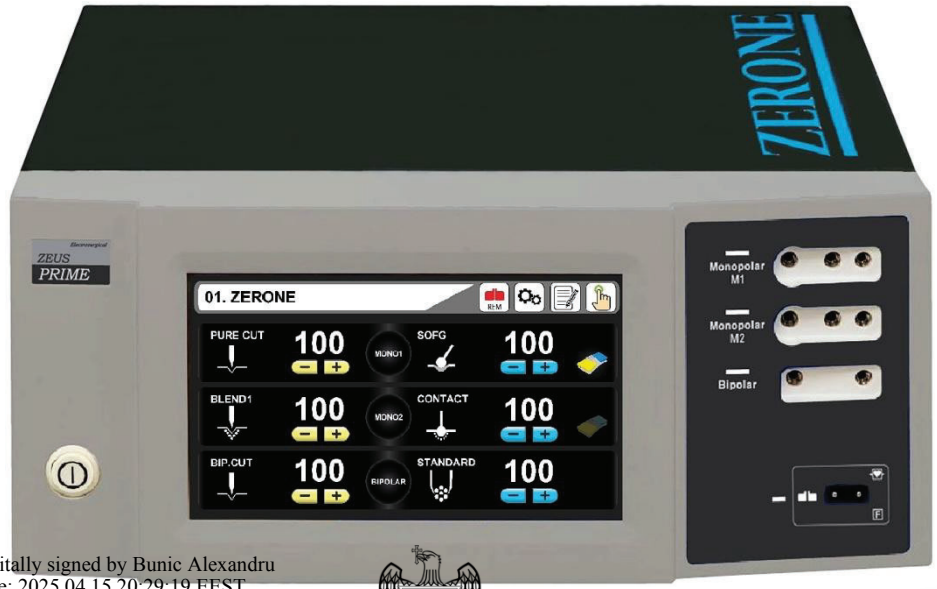
ZEUS PRIME



ZERONE

ZEUS PRIME Specification

Rated Voltage	100 – 240V~
Rated Frequency	50Hz / 60Hz
Power Consumption	800VA +10%
Fuse	T8AH when AC250V
Protection class	Class 1, Type CF
Leakage current	in acc. with IEC601,Part2-2
Carrier Frequency	333㎑, 727㎑
Repeat Frequency	23~33㎑
Size (W×D×H)	390mm × 395mm × 160mm
Weight	11.0 Kg
Using Environment	
Operation temperature	10℃ to 40℃
Storage temperature	-10℃ to 60℃
Humidity	20% to 95% RH,
Operation altitude	700mbar ~ 1060mbar
Operation Cycle	10sec ON 30sec Idle
Cooling	1 inner fan

Output Power(Basic)

Mode	Output Power	Carrier Freq.	Crest Factors	Repeat Freq.
Pure Cut	400W / 500Ω	400kHz	1.4	Continuous
Blend1	250W / 400Ω	400kHz	1.7	33kHz
Blend2	200W / 400Ω	380kHz	2.1	27kHz
Blend3	150W / 400Ω	380kHz	2.6	27kHz
Soft Coagulation	100W / 50Ω	400kHz	1.6	Continuous
Contact Coagulation	120W / 300Ω	727kHz	5.4	23KHz
Spray Coagulation	100W / 500Ω	400kHz	5.7	33kHz
Argon Coagulation	100W / 500Ω	400kHz	5.7	33kHz
Bipolar Cut	120W / 500Ω	500kHz	1.4	Continuous
Bipolar Blend	100W / 500Ω	500kHz	2.2	33KHz
Bipolar Standard	100W / 100Ω	500kHz	1.4	Continuous
Bipolar Auto Start	100W / 100Ω	500kHz	1.4	Continuous
Bipolar Forced	80W / 100Ω	500kHz	2.2	33KHz
Endo Cut (Polypectomy)	Max. Output Power(Cut phase) : 350W at 500Ω Max. Output Power(Coag phase) : 100W at 50Ω Rated Frequency : 350kHz Crest Factor : 1.4			

ZEUS PRIME Optional Function

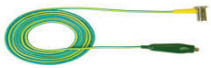
1) Option1, 3 : T.U.R.P.

Mode	Max. Output Power	Rated Freq.	Crest Factors
Bipolar T.U.R.P.	T.U.R.P. Cut	333kHz	1.4
	360W / 200Ω (Level9)		
	T.U.R.P. Coagulation	500kHz	
	180W / 50Ω (Level9)		

2) Option2, 3 : Vessel Sealing

Mode	Max. Output Power	Rated Freq.	Crest Factors
Bipolar Coagulation Seal	300W / 25Ω (Level5)	400kHz	1.4

Standard Accessories

	Double foot switch	(FS02-04R)		Bipolar Forceps cable	(CA01-02R)
	Double foot switch	(FS02-01R)		Bipolar Forceps 17.8cm 1.0Tip	(BF01-01R)
	Disposable twin button handle	(HD02-01D)		Monopolar Connecting Cable (3Φ)	(CA08-01R)
	Monopolar handle & cable	(HD01-02R)		Knife Electrode	(EL01-02D)
	Silicone patient plate	(PL02-04R)		Ball Electrode	(EL02-02D)
	Disposable Patient Plate, Adult Dual	(PL03-02D)		Loop Electrode	(EL03-02D)
	Return patient Plate cable	(CA02-03R)		Needle Electrode	(EL04-02D)
	Ground Cable	(CA03-01R)		Needle Angled Electrode	(EL04-04D)

Optional Accessories

Endoscopic Electrosurgical Electrode Vi-Sealer (Bipolar, Reusable, Straight, 5Φ * 340mm) (VS01-01R)

Endoscopic Electrosurgical Electrode Vi-Sealer (Bipolar, Reusable, Straight, 5Φ * 250mm) (VS01-02R)

Endoscopic Electrosurgical Electrode Vi-Sealer (Bipolar, Reusable, Maryland, 5Φ * 340mm) (VS02-01R)

Endoscopic Electrosurgical Electrode Vi-Sealer (Bipolar, Reusable, Maryland, 5Φ * 250mm) (VS02-02R)

Vessel Sealing Cable (2pin Plug, Silicon Cable 3m, EU Type Connector) (CA01-07R)

Bipolar Turp Cable (2pin Plug, Silicon Cable 4m,2.4ø and 2ø plug) (CA01-08R)

Disposable Patient Plate, Pediatric Dual (PL03-03D)

Bipolar Forceps 15.2cm 1.0 Tip (BF01-02R)

Bipolar Forceps 9.0cm 0.5 Tip (BF02-01R)

Bipolar Forceps 12.1cm 1.0 Tip (BF02-02R)

Bipolar Forceps 17.8cm 1.0 Tip (BF02-03R)

Bipolar Forceps Angled 9.0cm 0.5 Tip (BF03-01R)

Bipolar Forceps Angled 17.8cm 1.0 Tip (BF03-02R)

Monopolar Connecting Cable (4Φ) (CA08-02R)

Monopolar Connecting Cable (4.2Φ) (CA08-03R)

Cart (CT01-01R)

Feature

- This equipment consists of 8” TFT LCD touch screen with graphic user interface.
- With the adoption of touch screen, it is easy to select menu, operation functions and RF output.
- The ON/OFF function of Touch Screen is provided.
- One equipment provides such functions that are required to perform an operation as Functional Cutting (Pure Cut, Blend1, Blend2, Blend3), Coagulation (Soft Coagulation, Spray Coagulation, Contact Coagulation, Argon Coagulation), Bipolar Coagulation (Bipolar Standard, Bipolar Auto Start, Bipolar Forced, Bipolar Cut, Bipolar Blend). Endo-Cut
- Two Twin Button Handles provide remote-control function. (Select Cutting or Coagulation)
- Foot Switch is available for Cutting and Coagulating.
- It can be used by selecting the monopolar output (M1, M2).
- Microprocessor can straighten, stabilize the output.
- Operations of Cutting, Coagulation and Bipolar Coagulation can be distinct from each other by sound and indication lamp.
- Each application mode (Cutting, Coagulation, Bipolar Coagulation) has a different sound, which enables you to easily distinguish an operation type.
- If the area between a patient and the pad is not appropriate, REM(Return Electrode Monitoring) gives the alarm with a warning sound and stop an operation of the product to prevent a burning incident.
- The level of alarm sound can be adjusted during an operation of application mode.
- The selected output ratio of Cut, Coagulation, and Bipolar Coagulation will displayed by reenergizing the device after power OFF.
- 99 storages are available by using user storage function.
- The input power frequency 50Hz / 60Hz is automatically detected.

Safety Function

① A fuse built in a power circuit prevent an over current from flowing through the equipment.

② When the plate attached to the patient is separated from the equipment, the red alarm light begins flickering. Pressing the button of Twin Button Handle or the pedal of Cutting and Coagulation of Double Foot Switch will stop the alarm sound and the equipment.

③ REM (Return Electrode Monitoring) monitors the size of contacting 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.

④ To protect a patient, the case is fully grounded so that a leakage current can flow into the earth.

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.

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 visualizing the prostate through the urethra and removing tissue by electrosurgical unit or sharp dissection.

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.