

# OLYMPUS®

Your Vision, Our Future

Surgical Tissue Management System

Ultrasonic Generator

## USG-400



# Ultrasonic Generator

## USG-400

### Main features

#### USG-400 supports

- THUNDERBEAT, Exclusively delivering both ultrasonic and bipolar energy for reliable vessel sealing and the fastest in class tissue cutting, when combined with ESG-400, electro-surgical generator.
- SONICBEAT, Delivering ultrasonic energy for the simultaneous cut and coagulation of tissue.

#### USG-400 Features and Benefits

- Graphical User Interface for intuitive operation, ease of use, and rapid troubleshooting.
- Instrument recognition and automatic application of default settings for ease of use.
- Hand switch and foot switch activation options to meet each surgeon's individual preferences.
- Automatic mist and smoke evacuation to maintain a clear laparoscopic view reducing delays associated with compromised visualization, when combined with UHI series insufflator.
- A dedicated cart for transportation and storage.

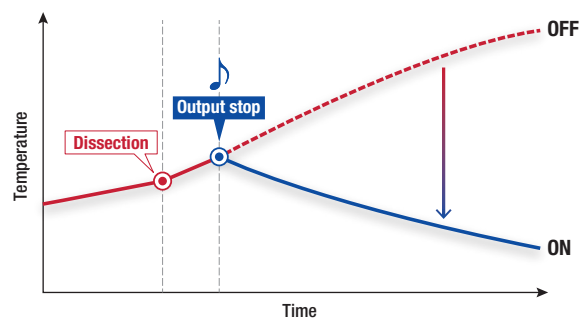


USG-400 and ESG-400 (optional) installed on TC-E400 (optional)

#### Intelligent Tissue Monitoring

- Intelligent Tissue Monitoring is the world's first safety assist technology that stops ultrasonic activation to prevent excessive temperature increase.
- Minimizes residual heat on the probe that can be caused by ultrasonic over-activation.
- Minimizes PTFE pad wear that can be caused by ultrasonic over-activation.
- The function can be easily turned On/Off.

Reduction of Unintentional Temperature Increase by Intelligent Tissue Monitoring



#### USG-400 Specifications

Power Supply	Voltage	120/220 – 240 V AC
	Voltage fluctuation	Within $\pm 10\%$
	Frequency	50/60 Hz
	Frequency fluctuation	Within $\pm 1$ Hz
	Input	360 VA
	Fuse rating	4 A, 250 V
Size	Fuse size	$\phi 5 \times 20$ mm
	Dimensions	375 (W) $\times$ 156 (H) $\times$ 480 (D) mm
	Weight	9 kg
Classification (medical electrical equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock	CF type
	Degree of protection against explosion	The ultrasonic generator should be kept away from flammable gases.
Output	Applicable instrument	THUNDERBEAT <sup>*1</sup> SONICBEAT
	ON/OFF operation	Footswitch Handswitch
	Output setting	Output setting and Intelligent Tissue Monitoring setting <sup>*2</sup> are possible by touching the Set screen displayed on the touch panel.
	Frequency	47.0 kHz

\*1 When combined with ESG-400, electro-surgical generator.

\*2 The Intelligent Tissue Monitoring is available with software version 2.00 or later.

#### TC-E400 Energy Cart Specifications

Dimensions	515 (W) $\times$ 1047 (H) $\times$ 715 (D) mm
Shelf Width	378 mm
Weight	38 kg
Load Capacity (when equally distributed)	Equipment shelf 40 kg <sup>*3</sup>
	Foot switch shelf 20 kg
	Drawer 5 kg
Casters	4 $\times$ $\phi 125$ mm dia., with brakes on all the casters.

\*3 Do not place an instrument with a larger footprint than the shelf plate on the EPF Cart.

#### Ordering information

USG-400	Ultrasonic Generator
<b>Option</b>	
ESG-400	Electrosurgical Generator <sup>*4</sup>
TC-E400	Energy cart for USG-400 and ESG-400
MAJ-1869	Footswitch for SONICBEAT
MAJ-1870	Footswitch for THUNDERBEAT
MAJ-1871	Communication cable short <sup>*4</sup>
MAJ-1872	Communication cable long <sup>*5</sup>
MAJ-1873	Adapter for the connection to UHI-2 or UHI-3 insufflator <sup>*5</sup>
MAJ-1876	Docking fixture <sup>*4</sup>

\*4 Required for the use of THUNDERBEAT

\*5 Required for the automatic mist and smoke evacuation function

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.



OLYMPUS MEDICAL SYSTEMS CORP.  
Shinjuku Monolith, 2-3-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0914, Japan

For a complete listing of sales and distribution locations visit:  
[www.olympus.com](http://www.olympus.com)