

# Digital Probe Sonicator With Sound Proof Enclosure (in-built)

Brand- **BIOGENIX®**

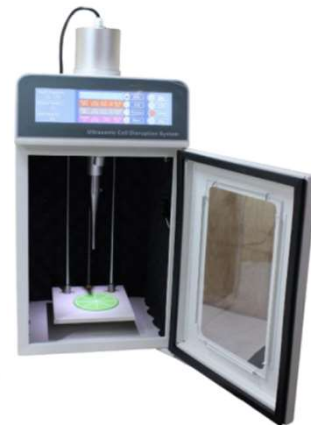
## Description:

Probe Sonicator is a multi-function and multi-purpose instrument that utilizes ultrasonic cavitation in liquid. It can be used for breaking many kinds of cells, bacteria, viruses, and animal and plant tissues, and also for emulsification and separation, homogenization, extraction, defoaming, cleaning, preparation of nanomaterials, dispersion, and acceleration of chemical reactions. Widely used in biology, medicine, agriculture, chemistry, materials science, pharmaceutical, and other fields of teaching, research, and production.



## SALIENT FEATURES:

- ❖ Microprocessor controlled & completely programmable
- ❖ Large touchscreen display
- ❖ Temperature indicator & max temp. alarm
- ❖ Motorized operation table for ease
- ❖ Auto-frequency for convenience & optimal processing
- ❖ Variable power setting
- ❖ Auto frequency tracking
- ❖ Safety Alarms
- ❖ Mixing, blending, emulsifying, and homogenizing solution Nano-emulsion.
- ❖ Reducing particle size



- ❖ Catalysing chemical reactions – Sonochemistry
- ❖ Novel design, Complete-function, Reliable ability
- ❖ Auto tuning, Watts, joule and elapse time display
- ❖ 99h total working time controller, 1s – 99h and count down time display
- ❖ Automatic amplitude compensation
- ❖ Temperature indicator with the probe
- ❖ Large LCD digital display, Fully microprocessor controlled and completely programmable
- ❖ Frequency range: 20KHz (Frequency is auto-tracking)
- ❖ Amplitudes power 0%-100% continuous adjustable
- ❖ Sound Enclosure
- ❖ Adjustable jack

## Technical Specification

<b>Make</b>	<b>BIOGENIX</b>
<b>Model</b>	<b>BS-PRO-650</b>
Frequency	18-28kHz Auto Tracking
Frequency Tracking Accuracy	1Hz Real Time Tracking
Processing Capacity	0.5 ml to 500 ml
Standard Probe	ø 6 mm (1/4")
Display	8" Touch Screen
Display Function	Temperature, Time, Power Gap Time
Temperature Range	0-99 Degree C
Timer	Yes Upto 99 Hours, 59 Mins, 59 Secs
Alarm Functions	Over Temperature, Over Current, Over Load, Transducer Abnormality etc.
Operating Table	Electrically, Operated Motorised
Lighting	Available Inside Cabinet
Data Memory	9 Memory Group
Output Power	650 W (Adustable)
Dimensions	280 x 280 x 490 mm / 10.2 Kgs



### Various size probes for Probe Sonicator Also known as Horns

Horns (also known as probes) are made from titanium and machined to specific sizes and shapes. When driven at their resonant frequency, they expand and contract longitudinally. This mechanical vibration is amplified and transmitted down the length of the probe. In liquid, the probe causes cavitation which constitutes the main mechanism for sample processing.



Choosing the appropriate horn is extremely important. The sample volume to be processed is directly related to the tip diameter. Smaller tip diameters (Microtip probes) deliver high-intensity sonication, but the energy is focused within a small, concentrated area. Larger tip diameters can process larger volumes but offer lower intensity.

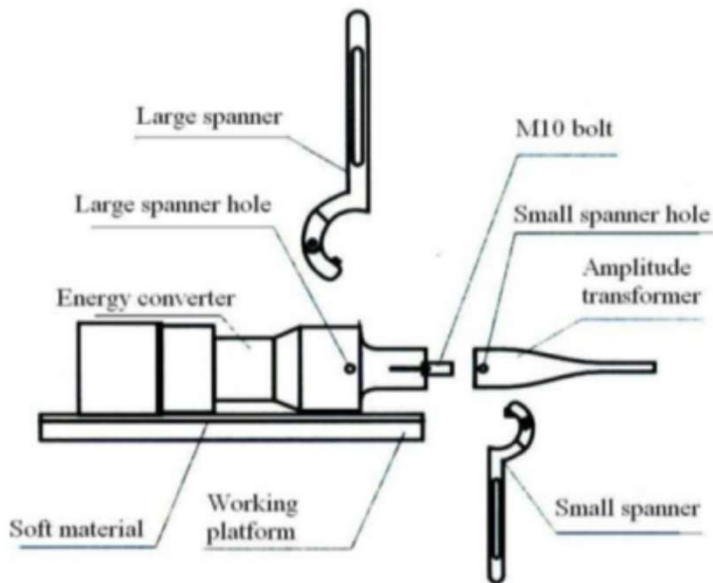


### **SPECIFICATIONS:**

<b>Part Number</b>	<b>Tip Diameter</b>	<b>Processing Capacity</b>	<b>Power Ratio</b>	<b>Amplitude (microns)</b>
<b>PPS-2</b>	Ø 2	0.5 ~ 5 ml	1 ~ 40%	320 µm
<b>PPS-3</b>	Ø 3	3 ~ 10 ml	1 ~ 50%	380 µm
<b>PPS-6</b>	Ø 6	10 ~ 100 ml	1 ~ 70%	200 µm
<b>PPS-8</b>	Ø 8	20 ~ 200 ml	1 ~ 80%	160 µm
<b>PPS-10</b>	Ø 10	30 ~ 300 ml	1 ~ 90%	140 µm
<b>PPS-12</b>	Ø 12	50 ~ 500 ml	20 ~ 95%	120 µm

Amplitude mentioned is calculated at 100% power.

Spare/Additional Probes are supplied with a set of wrenches especially designed for easily removing & attaching the probes to the ultrasonic convertor



### STANDARD ACCESSORIES:

- Ø 6 mm Probe
- Power cord
- Instruction Manual.



**BIOGENIX SYSTEMS PRIVATE LIMITED**

S-10, Pankaj Central Plaza, Pocket-5, Plot no-5, Sector-12,  
Dwarka, New Delhi-110075, INDIA

Email: [sales@biogenixsystems.com](mailto:sales@biogenixsystems.com) | Phone: +91-11-  
43738899 | 9990251155-99 | 9911717057

Website: [www.biogenixsystems.com](http://www.biogenixsystems.com)

Dealer Details

[info@biogenixsystems.com](mailto:info@biogenixsystems.com)  
[www.biogenixsystems.com](http://www.biogenixsystems.com)