



- ◆ Large touch screen display with intuitive parameters
- ◆ Small and convenient hand-held transducer with point-and-click buttons
- ◆ Rich functions: cell crushing, homogenization, separation, extraction, defoam, cleaning and accelerating chemical reactions
- ◆ Continuous and uninterrupted ultrasonic, automatic frequency tracking, automatic resonance point and power control, no need to manually adjust the energy frequently
- ◆ Can work intermittently or run in idle state, in line with different experimental needs, need to be verified (idle ultrasonic for 10 minutes is qualified)
- ◆ On/off pulse timer, closed loop and open loop can be set from 0.1 second to 99.9 seconds at will, to ensure high-intensity processing of samples
- ◆ Automatic amplitude and pulse compensation function, to ensure that the probe amplitude does not change due to load changes



**Product Introduction**

Handheld ultrasonic processors is a multi-functional and versatile instrument which uses strong ultrasound to produce cavitation effect in liquid to ultrasonically process substances. It can be used to break a variety of animal and plant cells and virus cells, and can also be used for emulsification, separation, homogenization, extraction, defoam, cleaning and accelerating chemical reactions. It is widely used in biochemistry, microbiology, pharmaceutical chemistry, surface chemistry, physics, zoology and other fields. This instrument is suitable for small trials that need to process a large number of samples but small amount, and need to quickly output experimental results.

Model	Reference capacity for crushing
Φ2mm	0.1~5ml
Φ3mm	3~10ml
Φ6mm	20~200ml
Φ8mm	30~300ml

\* The actual processing capacity is related to the sample capacity ratio, concentration, temperature, state, etc. Please refer to the actual test.

	Parameters		
Model	UP-150S	UP-250S	UP-400S
Operation mode	Automatic & pulse		
Ultrasonic frequency (kHz)	19~25 (auto tracking)		
Ultrasonic power (W)	150W	250W	400W
Power range (%)	1~100% (continuously adjustable with 1% accuracy)		
Duty cycle (%)	1~99%		
Standard ultrasonic top (mm)	Φ2mm	Φ3mm	Φ6mm
Optional ultrasonic top (mm)	/	Φ2mm	Φ2/3/8mm
Crushing capacity (ml)	0.1~50	0.5-100	0.5-300
Single ultrasonic time (s)	0.1-99.9S		
Single interval time (s)	0.1-99.9S		
Total time (s)	1-9999M59S		
Temperature control function	Optional (auto pause ultrasonic when reaching preset temperature)		
Product weight (kg)	4.2kg	4.2kg	4.5kg
Main unit size (mm)	250*210*110		
Input power (V/Hz)	100~240V 50/60Hz )		

\*Notes:  
Different amplitude rods are available for different sample capacities. The larger the power, the thicker the amplitude rod can be driven, and the larger the corresponding processing capacity will be. A temperature probe is optional. If you need to control the sample temperature, you can choose to equip it with a low-temperature thermostat, reaction kettle, etc.