

## 10. Warranty & Service:

- 1.) The warranty period for our deliveries and services shall be 12 months from the delivery date.
- 2.) During the warranty period, we undertake to send free replacement parts, at our discretion and as quickly as possible, any parts that are demonstrably damaged or unusable, buyer should pay for the freight cost.
- 3.) Our warranty shall be null and void should you or any third party carry out inappropriate modifications or repairs, should you fail to immediately use your best endeavours to prevent any damage, or fail to enable us to remedy the defect once it has occurred.
- 4.) Buyer should offer a valid purchase ticket and "warranty card", or you can effectively prove that your machine is still within the validity period of the warranty, otherwise no warranty service will be implemented.

Warranty Card			
User Information			
Name		Contact Number	
Address			
Product Information			
Model No.		Code on body	
Purchase time		Seller name	
Seller phone		Seller's stamp	
Seller address			
<p>1. Please fill in the real content, customers service mail address: <a href="mailto:service@gtsonic.cn">service@gtsonic.cn</a></p> <p>2. For more specific warranty service policy, please visit the official website of GT SONIC "www.gtsonic.cn/" or scan below QR code of official website.</p>			
			
Official Website		Official Store on Aliexpress	

# ULTRASONIC CLEANER

## User Manual

### GT SONIC R-SERIES



Thank you for purchasing the GT SONIC brand ultrasonic cleaner. Please take the time to read these operating instructions before use and retain them for future reference. Failure to follow these instructions may lead to serious personal injury and damage to property.

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### 10. Warranty & Service

Warranty Card

## 1. Overview

Standard packaging

Please confirm that the packaging of the ultrasonic cleaning machine you purchased is complete. If there is any damage to the packaging or any shortage of accessories, please contact your dealer as soon as possible.

Ultrasonic Cleaner \*1

Sound proof lid\*1

Basket\*1

Power lead\*1

User Manual\*1

Timer	Press "+" or "-" to start setting the cleaning time. Press "+" or "-" to adjust the time. When timer count down to 00:00, the ultrasonic stop working.
Heating temperature	Press "H" to start/stop heating. Press "+" or "-" to set the temperature. If the setting temperature is below environment temperature, the heating can't start, and indicator turn off. Temperature range: environment temperature to 80°C
Degas mode	Press "D" key to turn on degas function, press again to stop.
Ultrasonic power	Press the "U" button to turn on the ultrasonic standard working mode, the ultrasound works continuously, and then press again to stop working.
Operation switching	After setting the working time and heating temperature, press the heating switch "H" key (can choose not to open the heating) and then press any of the ultrasonic "U", "D", "U" keys, the machine starts working, the corresponding indicator of heating and ultrasonic is on. If you want to stop the heating or ultrasonic function, press the corresponding key, the machine can stop the heating and ultrasonic function.
After Use	After cleaning, turn off the power switch, unplug the power cord, and remove the wash basket and items. Empty the wash tank and clean the outside and inside of the machine with a soft, dry, clean cloth. Keep the drain valve closed (6L and above)

## 9. Factors affecting the effect

- 1.) Ultrasonic power density: The higher the power density, the better the cleaning effect and the faster the cleaning speed. For hard-to-clean workpieces, high power density should be used, and for precision workpieces, low power density should be used (the ultrasonic power density of general cleaning machines should be 0.01-0.02w/ml first).
- 2.) Ultrasonic frequency: The lower the frequency, the better the cavitation; the higher the frequency, the better the deflection effect. For simple surfaces, low frequency should be used. For complex surfaces and deep holes, blind holes, high frequency should be used.
- 3.) Cleaning temperature: ultrasonic wave is best at 40 °C - 50 °C. The higher the temperature, the more favorable the decomposition of dirt. When the temperature reaches 70 °C-80 °C, it will affect the function of ultrasonic waves and reduce the cleaning effect.
- 4.) Cleaning time: the longer the cleaning time, the better the effect (except special materials).
- 5.) There are many other influencing factors, such as the type and nature of cleaning fluid and dirt.

## 6. Applications:

Provided product is non-porous and can normally be immersed in water almost anything can be thoroughly cleaned. Here are some examples:	
Health and Beauty	Beauty and Chiropractic Institutes: scissors, comedo removers, pincers, nippers, forceps and razors.
	Dental Practices and Dental Technician Laboratories: cleaning handpieces, drills, heads for ultrasound ablaters, glass objects and mirror.
Laboratories and Tattoo	Glass containers in analysis laboratories.
	Tattoo Studios: grips, tips and needles.
Goldsmithery and Silversmithery	Necklaces, bracelets, rings, precious stones, watch casings and straps, precision mechanical movements.
Manufacturing	Aerospace, Pharmaceutical, Defence, Automotive, Marine, Filtration, Moulding, Food and Beverage, Plating & Surface Finishing, Semi-Conductors.
Optical	During edging and polishing, debris and abrasives can scratch lenses. Ultrasonic cleaning can effectively protect the lenses.
Military	Reusable brass, gun parts, etc.
Regeneration	For cleaning dot matrix printers and photocopier ink cartridges.
Maintenance	Mobile phones, bicycle gears, air purifiers. It cleans out debris in tiny holes and crevices effectively.

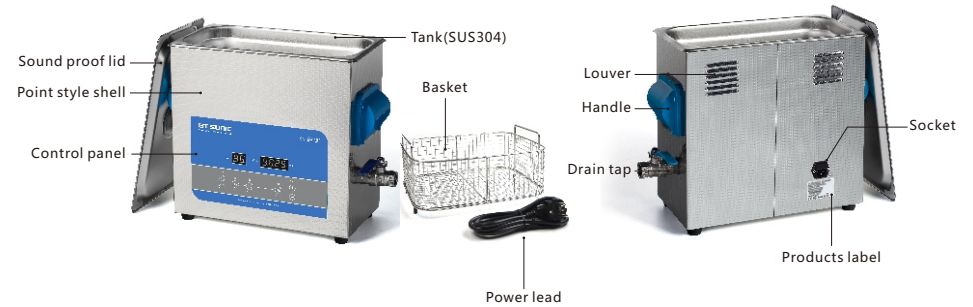
## 7. Installation and Preparation

- 1.) After unpacking, check if the parts are loose;
- 2.) Place the machine in a dry and ventilated place; ensure that the machine is in a horizontal position;
- 3.) Select appropriate detergent, water or other solution according to the characteristics of the cleaning object;
- 4.) Connect the power plug correctly - be sure to use a three-hole socket and a reliable grounding wire to ensure safety.

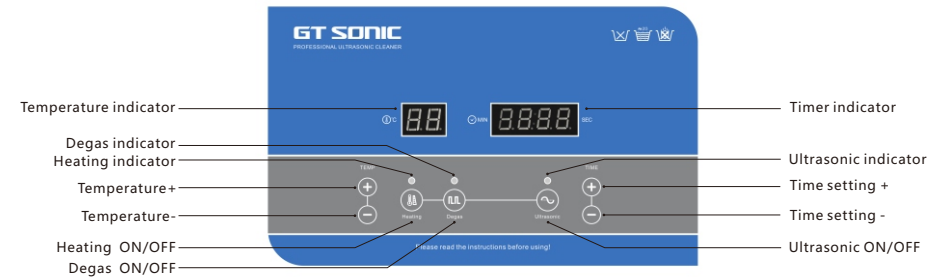
## 8. Methods of Use

Step	Operation
1	Select appropriate cleaning solution and pour at least 2/3 volume of cleaning solution into the cleaning tank. Do not exceed the maximum water level mark. Note: Do not use alcohol, benzene or other flammable cleaning fluids that can cause fire or explosion. Use only water-based solutions.
2	Put the items in the washing basket, slowly put the washing basket into the washing tank, do not let the items directly touch the washing tank (Cleaning fluid should cover the items).
3	A: Plug the cleaner into grounded outlet. B: Power on and turn on the power switch on back side of the machine. Note: After the power on, the temperature you see on the machine is environment temperature. Temperature setting and time display with memory function.

## Figure of product details :



## Figure of control panel :



- 1.) Heating Temperature: Normal-80°C adjustable.
- 2.) Timer: 01:00-99:00 minutes adjustable.
- 3.) Heating button: Press it to turn on the heating function (when the set temperature is lower than the actual water temperature, the heating function cannot be turned on), the temperature displays is the current actual water temperature, and then press again to turn off the heating function.
- 4.) TEMP+ button: Press this button to increase the water temperature, and each time you press it, the temperature is raised by one degree (Press and hold this button, the temperature is continuously increased in units of "10°C" .) It will stop when it is up to 80°C.
- 5.) TEMP- button: Press this button to decrease the water temperature, and each time you press it, the temperature is lowered by one degree (press and hold this button, the temperature is continuously lowered in units of "10°C" .) it will stop when it is up to 30°C.
- 6.) Degas mode: Working 6 seconds, stop 2 seconds cycling. Fresh solutions with many air which reduce effective ultrasonic action. Using Degas mode speeds up the degassing process and improves cleaning efficiency.
- 7.) Ultrasonic mode: Press this button to turn on the ultrasonic working mode, the ultrasound works continuously, and then press again to stop working.
- 8.) TIME+ button: Press this button to increase the working time, and each time you press it, the time will increase by one minute (press and hold this button, the time will increase continuously by units of "10min" .) will stop when it's up to 99 minutes.
- 9.) TIME- button: Press this button to reduce the working time, and each time you press it, the time will be reduced by one minute (press and hold this button, the time will decrease continuously by units of "10min" .) It will stop when it is reduced to 1 minute.

## 2. Safety Instructions

### ⚠️ Precautions:

- 1.) The ultrasonic cleaner available for voltage of AC 100V-120V 60Hz or AC 220V-240V 50Hz only(Check the label info. on the back side of the machine).
- 2.) Warning: Do not use it directly in high temperature or humid places to avoid electric shock.
- 3.) Do not drop or hit the cleaner, and handle it carefully when moving, so as not to affect the efficiency and life of the machine.
- 4.) Please place the cleaner properly to avoid accidents caused by improper operation of children.
- 5.) The power must be disconnected during maintenance to avoid a safety accident.
- 6.) There is high pressure inside when the machine is in operation. The casing cannot be removed to avoid danger.
- 7.) If the power cord is damaged, please stop using it immediately and contact our service center or dealer in time.
- 8.) When cleaning the case, unplug the power cord and wipe it with a soft dry cloth.
- 9.) Do not expose to rain or water splashing to avoid electric shock or fire, and avoid placing the cleaner in an area where the temperature is too high or humid.
- 10.) In order to ensure personal safety, the case must not be dismantled for repair and modification by non-professionals.

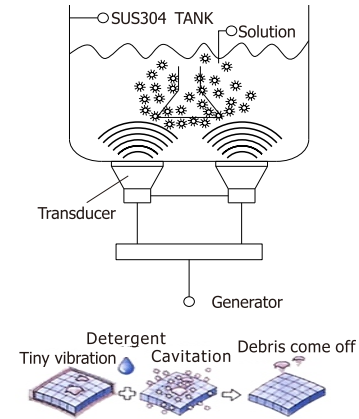
### ⚠️ Attentions:

- 1.) While the machine is working normally, ultrasonic and tank syntonny gives a well-proportioned sound, and no shudder on the surface of the water, yet there is spray made by the tiny bubbles. If there are discontinuous surges, please add or release a little of washing solution in the tank, stopping the surges is good for cleaning the objects.
- 2.) On the condition of make sure the cleaning object is cleaned, please run the machine discontinuously as far as possible(not more than 30min.),for long-time running causes temperature increment of the case, and speedup the aging of the electronic devices.
- 3.) Flammable cleaning solution is forbidden.
- 4.) Do not start the heater nor ultrasonic while the tank is empty.
- 5.) Prevent water or cleaning liquid from spattering into the case or shaker.
- 6.) When something is dropped into the tank carelessly, take it out immediately.
- 7.) Make sure the washing liquid is not hot, and turn the ultrasonic off and pull out the plug, while changing or emptying the tank.
- 8.) Clean the dirt in the tank after using.
- 9.) Keep the surface of the machine clean.

## 3. Ultrasonic Principle

Ultrasonic cleaning is on based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently.

Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost "like new" condition without damage to delicate parts.



## 4. Features:

- 1.) Unique degas function to achieve ultrasonic vacuum in the true sense.
- 2.) Intelligent humanized control circuit to ensure the reliability of products and extend the service life of products.
- 3.) 98% high conversion efficiency of the circuit, the reactive power loss is extremely low.
- 4.) Digital display, power-off memory function, operation is simpler and faster.
- 5.) Scientific and practical control panel: heating temperature setting, heating switch, working time setting, degassing working mode etc.
- 6.) The product cleaning tank is made of high quality SUS304 stainless steel, which has a long service life and beautiful appearance.
- 7.) With sound proof lid.
- 8.) With drain to quickly discharge waste liquid (6L and above).
- 9.) With SUS304 basket.

## 5. Specifications:

Model No.	Tank Size	Unit Size	Volume	Ultrasonic Power	Heating Power	Frequency	Timer	Heating Temperature	Degas
	(L*W*H)mm	L*W*H ( mm )	( L )	( W )	( W )	( kHz )	( Min )	( °C )	
GT SONIC-R2	150x135x100	175x160x230	2	50	100	40	1-99	20-80	YES
GT SONIC-R3	240x135x100	250x160x230	3	100	100				
GT SONIC-R6	300x150x150	310x175x310	6	150	300				
GT SONIC-R9	300x240x150	310x265x310	9	200	300				
GT SONIC-R13	330x300x150	340x325x315	13	300	400				
GT SONIC-R20	500x300x150	520x325x330	20	400	500				
GT SONIC-R27	500x300x200	520x325x380	27	500	500				