



ULTR Ultrasonic bath with heater and timer

Please read the User Manual carefully before use and follow all operating and safety instructions!



User manual

english

User Manual



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Preface

Users should read this Manual carefully, follow the instructions and procedures, and beware of all the cautions when using this instrument.

Service

When help is needed, you can always contact the Service Department of manufacturer for technical support: www.labbox.com / e-mail: info@labbox.com

Please provide the customer care representative with the following information:

- Serial number
- Description of problem
- Your contact information

Warranty

This instrument is warranted to be free from defects in materials and workmanship under normal use and service, for a period of 24 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operation.
For claim under the warranty please contact your supplier.

Applications: Electronic factory, Car workshops, Industrial and mining area, Laboratories, Hospitals, Dental clinics, Watch shop, Optical shops, Jewelry shops, Mobile phone repair shops, and household use.

CAUTIONS

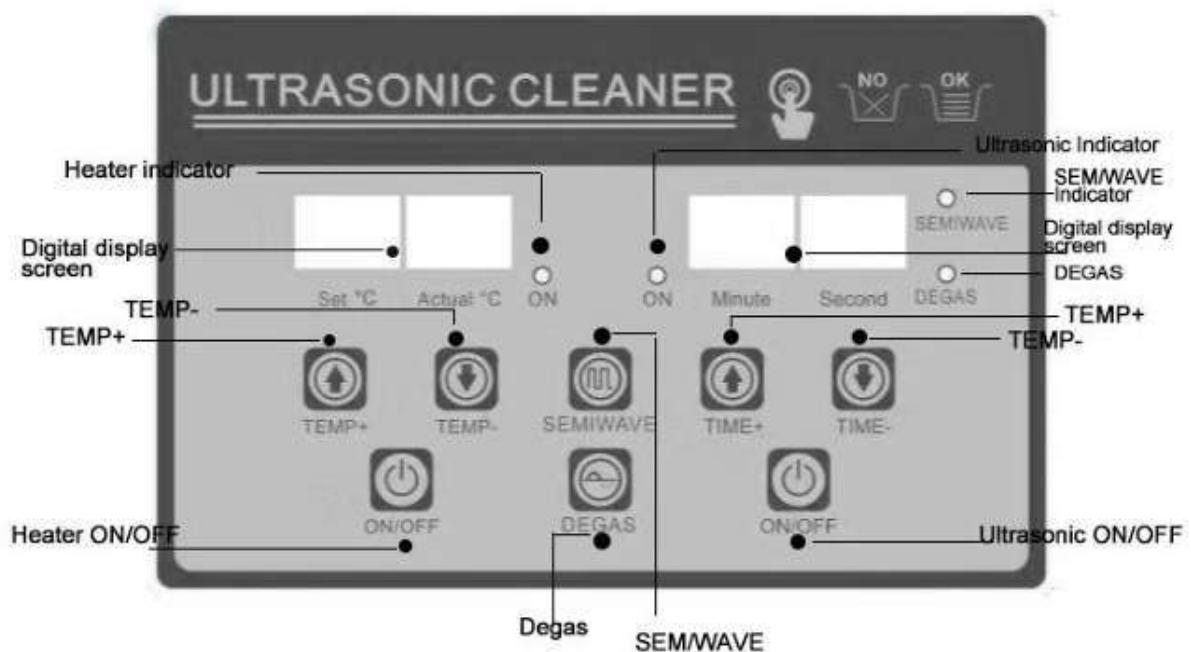
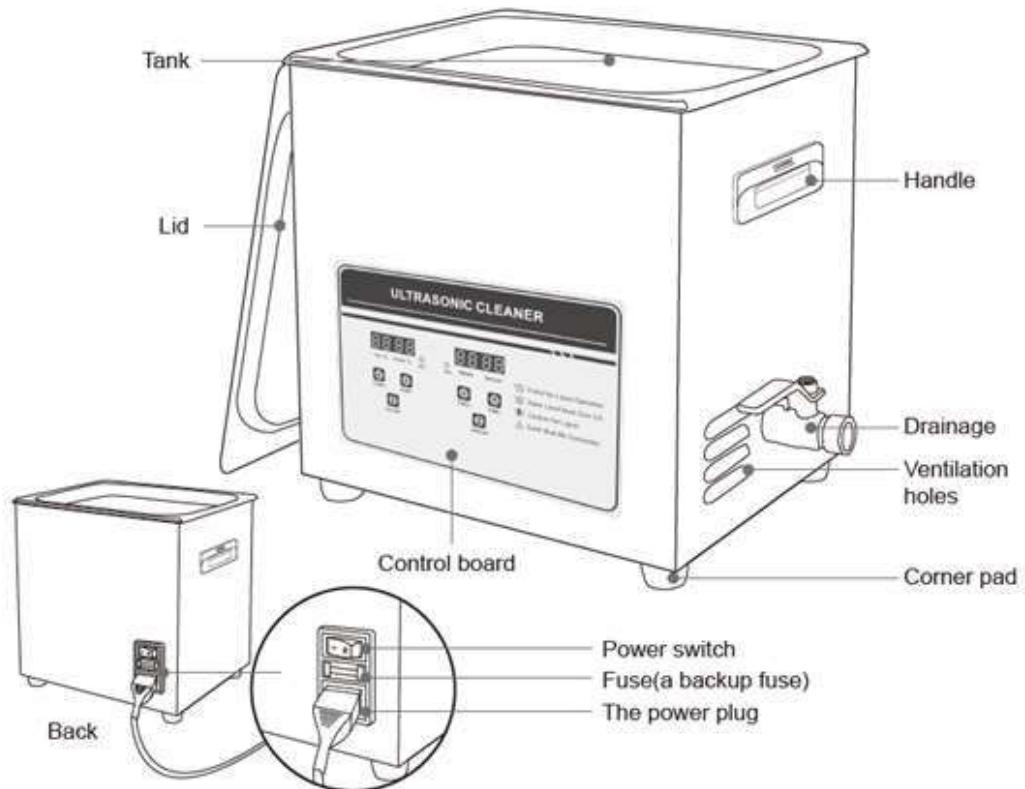
Thank you for purchasing the ultrasonic cleaner. Please read the instruction manual carefully before operation to avoid damage to the machine or any danger to personal safety.

- Ensure the power supply is within the rated range before connecting the power cable. Refitting is strictly prohibited! Attention that the control panel will be eroded by organic solution, strong acid and strong alkali.
- Ensure the earth wiring is well connected before starting.
- Ensure the power key or knob is on the 'OFF' place before starting.
- Do not operate if the tank is empty, or ultrasonic generator will be damaged If heating is needed, the water level should not be less than 2/3
- Please close the lid to reduce noise and be cautious of water and steam to avoid burns when opening the lid
- Do not relocate the machine when fluid in the tank in case of overflow.
- Suggest using water-soluble liquid for bench top ultrasonic cleaners. Strong acid or flammability cleaner is forbidden.
- Do not use the machine in severe environment:
 - The place where temperature changes fiercely.
 - The place where humidity is too high and is easy to produce dew.
 - The place where vibration or impact is strong.
 - The place where exists corrosive gas or dust.
 - The place where water, oil or chemicals splash.
 - The place where is filled with explosive and flammable gas.
- Shorten the daily working time. Suggestion is to stop for a few minutes for heat dissipation after working over 30 minutes.



Heater is forbidden when using flammable liquid(such as alcohol, solvent cleaner etc.) to clean objects.

PRODUCT PRESENTATION



OPERATION PROCEDURE

Before starting the equipment, check the machine to see if there is loosen parts. Keep the unit on a stable and flat working platform in dry and cool environment. According to the size and quantity of washing objects, add little bit detergent in the tank which can help improve the cleaning effect. (Empty tank working is forbidden!) Ensure correct power and switch connect before starting the equipment.

- **Operation Instructions: (Mechanical models)**

- Start (ULTRASONIC), clockwise rotate to choose the time you required between $0 \sim 30$ min. When the indicator light is on and make "ZIZI" sound, it shows ultrasonic operation work OK.
- If need heating, start(HEATING) to adjust required temperature, normally $40 \sim 60^{\circ}\text{C}$.(Heating is optional upon needs).
- To stop cleaning.
 1. Press OFF once, the ultrasonic should stop running, the indicator light will also be off.
 2. Rotate the heating control knob to "OFF" the indicator light will also be off.
 3. Then switch off the unit and disconnect the power.
 4. Empty out the liquid and clean the tank and the unit with clean cloth for next use.

- **Operation Instructions: (Digital models)**

- Timer setting: When power is connected, the default setting is "5:00 ". Press **TIME+** once will increase time by 1 min; Press **TIME+** once will decrease time by 1 min.(Free choice and digital countdown control).
- Temperature setting: (heating is optional upon needs):When power is connected, the default setting is " 50°C " and Actual is room temp, press **TEMP+** once, will increase temperature by 1°C ; Press **TEMP-** once, will decrease temperature by 1°C . If the setting temperature is lower than the actual tank temperature, the operation will stop automatically. When the temperature rises to the setting temperature, the indicating light goes off. When ultrasonic work, two temperature screen shows set temperature and actual temperature has been reached.
- SEMIWAVE: Please open this function when ultrasonic is working, and it will be working by half wave form. Press this SEMIWAVE button again,then it will be turned off.
- DEGAS : Please open this function when ultrasonic is working, that is open 10 seconds, stop 5 seconds. Press DEGAS button again, then it will be turned off. (SEMIWAVE & DEGAS function just only effective when ultrasonic is working)
- After set the time and temperature, press ON/OFF once, the equipment will work automatically. Press ON/OFF again, the work process will stop. Then switch off the unit and disconnect the power supply, empty out the liquid and clean the tank and the unit with clean cloth for next use.

- **Adjusting power:**

- The function is only available for models with adjustable power! Rotate SLOWLY the power knob clock-wise to increase the power from 40% to 100%, and counter-clockwise SLOWLY is to decrease sonic power.

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Note: Do not use the ultrasound device continuously for more than 30 minutes. After this period, switch off the device and allow it to cool down for 20 minutes before using it again.

MAINTENANCE

The unit must be opened by authorized specialized person only for maintenance and care of it.

- Clean the contaminant in the tank frequently.
- Trouble clearing:

Problem	Possible Causes	Solutions	Remarks
No ultrasonic	A. Power supply not connected. B. Fuse broken. C. Cable short circuit. D. Transducer short circuit. E. PCB Board broken. F. Other reasons	A. Check and plug power switch. B. Check the fitted power supply and change the same specification fuse. C. Connect fitted cable or replace a new D. Inquiry our after-service engineer E. Check the broken part and change it. F. Inquiry our after-service engineer.	
Time control failure	A. Timer knob out of control B. Timer failure C. Other reasons	A. Loosen or tighten the screw. B. Replace timer or digital panel. C. Inquiry our after service engineer.	
No heating	A. Heater power switch bad linkage B. Fuse burn out C. Heating pad burn out D. Digital display board out of control E. Other reasons	A. Check heating plug and connect well, Check outlet line with multimeter: if OK and resistance value is few hundred OHMs.. B. Change the same specification fuse. C. Replace the bad heating pad if open circuit. D. Check the broken part and change it E. Inquiry our after service engineer.	Suggestion 50-60°C
Temperature control failure	A. Thermostat loosen B. Thermostat tube broken C. Digital display out of control D. Other reasons	A. Fasten the thermostat header B. Replace thermostat. C. Check the broken part and change it. D. Inquiry our after service engineer.	
Not well cleaning	A. Not strong ultrasonic cleaning B. Too high too low liquid surface C. Too high too low temperature D. Not suitable cleaning liquid E. Other reasons	A. Connect ultrasonic button and adjust. B. Adjust liquid into the best surface. C. Adjust temperature into the most fitted. D. Stop and switch off power supply, replace suitable liquid after the liquid cool down.	Suggestion 50-60°C

		E Inquiry our after service engineer.	
Electric leakage	A.Customer side not grounded B.Machine not grounded	A To ensure grounded. B Check if machine earth wire loosen.	

APPLICATION

Industry	The cleaning products and material	Clear dirt
Semi-conductor	Integrated circuit, power tube, silicon wafer, diode, lead frame, capillary, tray, etc.	Hards, etching oil, stamping oil, polishing wax, dust particles, etc
Electrical& electronic machine	Tube parts, cathode ray tube, printed circuit board, quartz parts, electronic components, telephone switching equipment, speaker components, power meter, LCD glass, core iron parts, computer floppy disk, video parts hoop parts, head, photo die mask, etc	Fingerprint, powder, cutting oil, stamping oil, iron filings, polishing materials, walnut powder, polishing wax, resin, dust, etc
Precision machine	Bearing, sewing machine parts, typewriter, textile machine, optical mechanical device, gas valve, watches, cameras, metal filter element, etc.	Machine cutting oil, iron filings, polishing powder, fingerprint, 011, grease, dirt, etc.
Optical device	Glasses, lens, prism, optical lens, filter lens, glass device, film, optical fiber, etc	Plastic, resin, paraffin, finger printing, etc
Hardware & machinery parts	Bearing, gear, ball, metal shaft parts, tools, adjustable valve and cylinder parts, burner, compressors, hydraulic press, gun and ultracentrifuge, city water faucet, etc	Cutting oil, iron filings, grease, polishing powder, finger printing and so on
Medical instrument	Medical instrument, denture, etc	Iron filings, polishing powder, oil, stamping oil, dirt, etc.
Electroplate	Galvanized parts, mold, stamping parts, etc	Polishing scrap iron, oil, black iron shell, rust, oxidation shell, scrap iron, polishing powder, stamping oil, dirt, etc.
Car parts	Piston ring, carburetor, flow meter housing, compressor shell, electrical components, etc	Chemical colloid, glue, and other solid material, dust, etc
Chemical fiber	Chemical or artificial fiber nozzle filter protector chemical fiber texture, etc	

Nota importante para los aparatos electrónicos vendidos en España

Instrucciones sobre la protección del medio ambiente y la eliminación de aparatos electrónicos:



Los aparatos eléctricos y electrónicos marcados con este símbolo no pueden ser eliminados en forma de residuos urbanos.

De conformidad con la Directiva 2012/19/UE, los usuarios de la Unión Europea de aparatos eléctricos y electrónicos, tienen la posibilidad de devolver sus RAEE para su eliminación al distribuidor o fabricante del equipo después de la compra de uno nuevo. La eliminación ilegal de aparatos eléctricos y electrónicos es castigada con multa administrativa.

Remarque importante pour les appareils électroniques vendus en France

Informations sur la protection du milieu environnemental et élimination des déchets électroniques :



Les appareils électriques et électroniques portant ce symbole ne peuvent pas être jetés dans les décharges.

En réponse à la réglementation, Labbox remplit ses obligations relatives à la fin de vie des équipements électriques de laboratoire qu'il met sur le marché en finançant la filière de recyclage de ecosystem dédiée aux DEEE Pro qui les reprend gratuitement (plus d'informations sur www.ecosystem.eco).

L'élimination illégale d'appareils électriques et électroniques est punie d'amende administrative.

Nota importante per le apparecchiature elettroniche vendute in Italia

Istruzioni sulla protezione ambientale e sullo smaltimento dei dispositivi elettronici:



Le apparecchiature elettriche ed elettroniche contrassegnate con questo simbolo non possono essere smaltite come rifiuti urbani.

In conformità con la Direttiva 2012/19 / UE, gli utenti dell'Unione Europea di apparecchiature elettriche ed elettroniche hanno la possibilità di restituire i propri RAEE per lo smaltimento al distributore o al produttore di apparecchiature dopo averne acquistato uno nuovo. La rimozione illegale di apparecchiature elettriche ed elettroniche è punibile con una sanzione amministrativa.



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