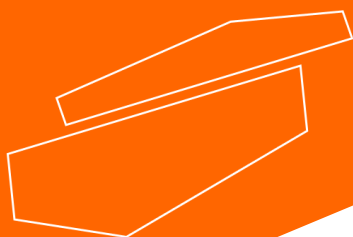




## ULTR Small – Ultrasonic Bath with Timer

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



**user manual**

english

# User Manual



## ULTR Small – Ultrasonic Bath with Timer

### 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](http://www.labbox.com) / e-mail: [info@labbox.com](mailto: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 12 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.

# 1. Safety Instructions

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>Warning!</b> <ul style="list-style-type: none"> <li>• Read the operating instructions carefully before use.</li> <li>• Ensure that only trained staff works with the instrument.</li> </ul>                                                                                                                                                                                                                                                                                      |
|    | <ul style="list-style-type: none"> <li>• Do not work for long time when you use flammable liquid like alcohol!</li> <li>• You will get a better cleaning effect if a cleaning solution is added to the ultrasonic cleaner.</li> </ul>                                                                                                                                                                                                                                               |
|    | <ul style="list-style-type: none"> <li>• <b>Do not operate if the tank is empty</b>, or the ultrasonic generator will be damaged.</li> </ul>                                                                                                                                                                                                                                                                                                                                        |
|    | <ul style="list-style-type: none"> <li>• Do not turn on the machine if the tank is empty or the transducer will be damaged.</li> <li>• Do not relocate the machine when there is fluid in the tank (to avoid overflow).</li> <li>• Water-soluble liquids are suggested for the ultrasonic cleaner. Strong acids or flammable cleaners are strictly forbidden. If a solvent type cleaner is added in the tank, please stop working for a while after the 30 minute cycle.</li> </ul> |
|  | <ul style="list-style-type: none"> <li>• Connect the device to an earthed power supply to ensure the safety of the machine and the experiment; connect the power as the machine requires it.</li> <li>• Refitting is strictly prohibited!</li> <li>• Ensure the earth wire is well connected before starting.</li> </ul>                                                                                                                                                            |

Table 1

- The control panel will be eroded by organic solution, strong acid and strong alkali.
- Activate key of system should be on position of " ON/OFF " button.
- Please close the lid to reduce noise and pay attention to water and steam in case of burning skin while open the lid.

## **Do not use the machine in any of the environments below:**

- A place where temperature changes fiercely
- A place where vibration or impact is strong
- A place where water oil or chemicals splash
- A place where humidity is too high and it is easy to produce dew
- A place where there is corrosive gas or dust
- A place where there is explosive and flammable gas

2. Inspection

2.1 Receiving Inspection

Unpack the equipment carefully and check for any damages which may have arisen during transport. Please contact your supplier for technical support.



**Note:**  
If there is any apparent damage to the system, please do not plug it into the power line.

2.2 Listing of Items

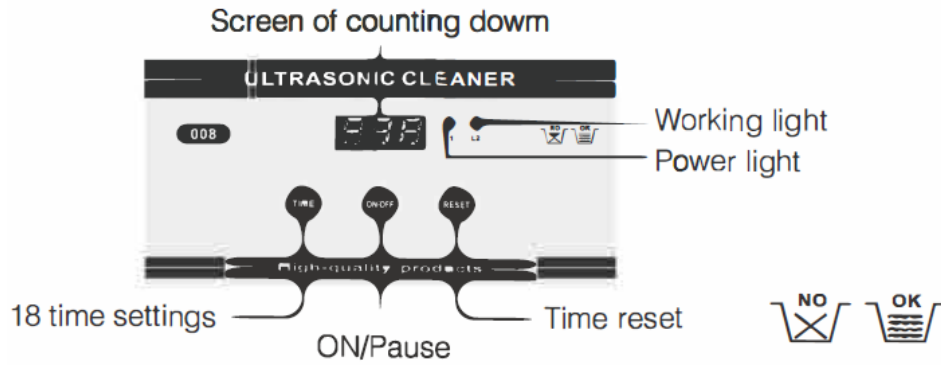
The package includes the following items:



2.3 Specifications:

| Item             | Parameter             |
|------------------|-----------------------|
| Model            | ULTR Small            |
| Tank Capacity    | 0,8 L                 |
| Transducer       | 1 unit                |
| Input Voltage    | AC 220-240V, 50-60 Hz |
| Ultrasonic Power | 50 W                  |
| Frequency        | 40 KHZ                |
| Tank Size        | 150 x 85 x 65mm       |
| Unit Size        | 178 x 110 x 130mm     |

### 3. Operation



#### Operation steps:



##### Check the machine

Plug the machine to be sure the machine power is on, in this case the power indicator and LED display says "300"



##### Uncover the lid and fill the tank with tap water.

No water operation will damage the machine, please put the cleaning object in the water. Fully immerse the part to be cleaned in the water, but do not put water above the "Max" Line.



##### Time Setting

Press TIMER multiple times in order to choose the amount of time you wish the items to be cleaned. There are 18 options: 90s 120s 150s 180s 210s 240s 540s 720s 900s 18m 21m 24m 27m and 30m.



##### Reset

Press RESET button when setting time or cleaning. Time will reset to "300" and machine will suspend work.



##### Finish Work

Please do unplug the machine first after working, and then clean the tank, Be sure no liquid is in the tank if need long-term storage.

## 4. Maintenance

- Regular maintenance, electrical control system with high pressure air blow off the dust.
- Clean the tank at least once a week

### Trouble clearing

| No. | Problems               | Possible Cause                                                                                                                                                       | Solutions                                                                                                                                                                                                                                                               |
|-----|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | No ultrasonic activity | A. Power supply not connected<br>B. Fuse broken<br>C. Cable is short circuited<br>D. Transducer is short circuited<br>E. PCB Board broken<br>F. Other reasons        | A. Check and plug power switch<br>B. Check the fitted power supply and change the same specification fuse<br>C. Connect fitted cable or replace a new<br>D. Consult with your supplier<br>E. Check the broken part and change it<br>F. Consult with your supplier       |
| 2   | Not well cleaning      | A. Not strong ultrasonic cleaning<br>B. Too high or too low liquid surface<br>C. Too high too low temperature<br>D. Not suitable cleaning liquid<br>E. Other Reasons | A. Connect ultrasonic button and adjust<br>B. Adjust liquid into the best surface<br>C. Adjust the temperature into the most fitted<br>D. Stop and switch off power supply, replace suitable liquid after previous liquid cooling down<br>E. Consult with your supplier |
| 3   | Electric Leakage       | A. Customer side not grounded<br>B. Machine not grounded                                                                                                             | A. Ensure it is grounded<br>B. Check if machine earth wire loosens                                                                                                                                                                                                      |
| 4   | Other problems         |                                                                                                                                                                      | Consult with your supplier                                                                                                                                                                                                                                              |

### **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](http://www.ecosystem.eco)).

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

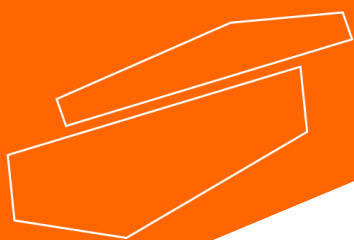
### **Nota importante per le apparecchiature elettroniche vendute in Italia**

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.



[www.labbox.com](http://www.labbox.com)