



## **Orb-B2 Orbital Shaker with Digital Screen and Timing Function**

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



**user manual**

english

# User Manual



## Orb-B2 Orbital Shaker with Digital Screen and Timing Function

### **Preface**

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

### **Service**

In order to guarantee this equipment works safely and efficiently, it must receive regular maintenance. In case of any faults, do not try to repair it yourself. If help is needed, you can always contact your dealer or Labbox via [www.labbox.com](http://www.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.

## 1. Installation Instructions

1. Carefully unpack the instrument and place it on a stable, clean, non-slip, and fireproof surface.
2. Ensure a good working environment free of any combustible media or flammable materials to avoid additional hazards.
3. Place the shaker at more than 10 cm from the wall and other units if using multiple units together.
4. Ensure that there is no accidental spillage during speed setting.
5. Do not use any combustible media or flammable materials to avoid any additional hazards.
6. Ensure that the label indicates the correct voltage before connecting the unit to the power supply.
7. Do not operate the unit with a damaged power cord.
8. Disable the power supply while fitting the accessories.
9. Ensure that the unit and its accessories are in good working condition before each operation.

## 2. Operating Procedure

1. Switch ON the power and the instrument will start self-checking.
2. Press the “Mode” key and the unit will enter the adjustment mode.
3. Press the “+/-” keys and confirm the set speed and time. Adjust the speed and time to the desired settings.
4. Press the “Start” key and the instrument will begin shaking.
5. Press the “Stop” key to stop the operation and return the unit to adjustment mode.

## 3. Troubleshooting and Error Code Information

Error Code	Problem	Reason	Solution
E01	No operating response found (LED OFF)	Power switch is OFF	Check and connect the power supply before restarting. Check the adapter.
		Switch position is OFF	Turn on the instrument and check the speed set on the LED display.
		Internal cables disconnected	Open the instrument and check all connections before reconnecting them.
E02	The shaking board operation failure	Target speed is not set	Set the target speed and make sure the indicator lamp is ON.
		Driver board damage	Replace the driver board.
		Motor damage	Replace the motor.
E03	Inaccurate shaking speed	Driver board damage	Replace the driver board.
		Photoelectric switch damage	Replace the photoelectric switch.
E04	Shaking speed is jammed	Driver board damage	Replace the driver board.
		Motor damage	Replace the motor.

### **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.

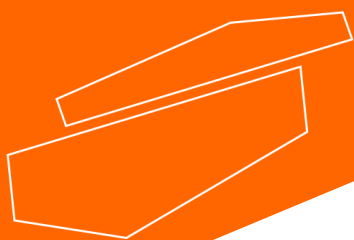
### **Nota importante per le apparecchiature elettroniche vendute in Italia**

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)