

# Operation Manual



BVMX-303

## Mini Mixer

Thank you very much for Choosing Biolab products. Please read the "Operating Instructions" and "Warranty" before operating this unit to assure proper operation.

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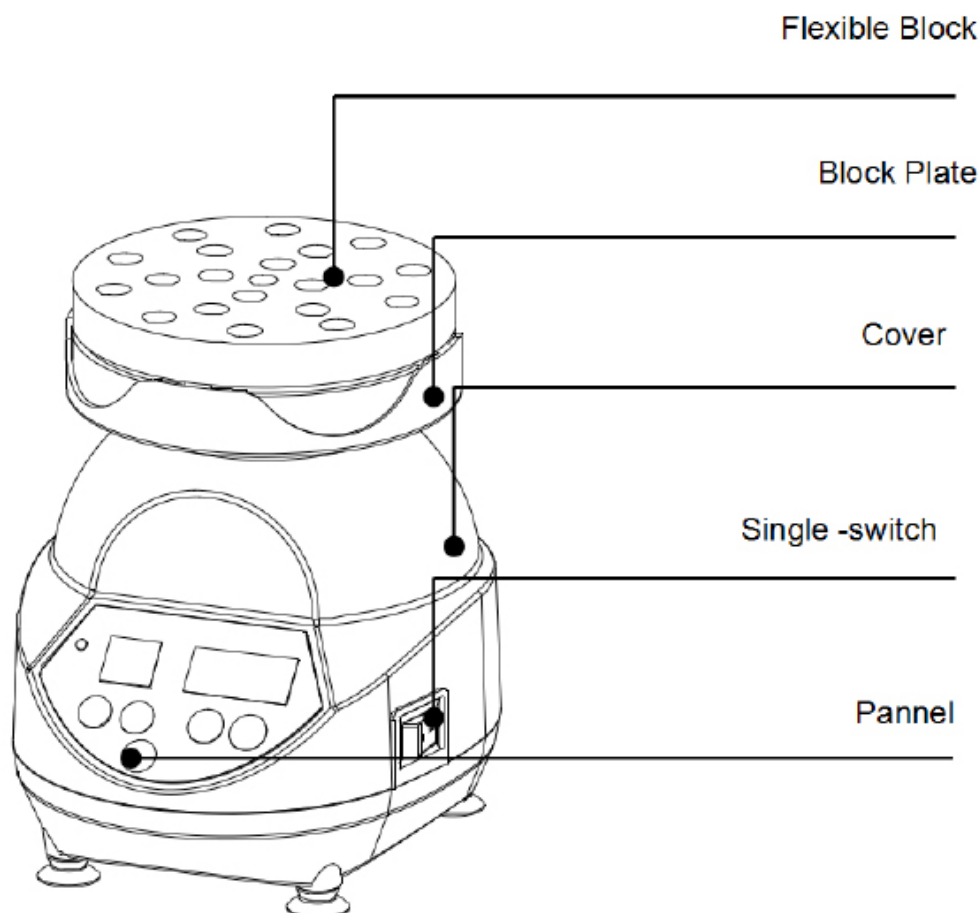
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# 01 Introduction

Mini Mixer BVMX-303 is used for vibration, blend and stir of sample tissue, cell, bacteria Liquid and chemical reagent in life science and physical and chemical analysis field. Multiple tubes are suitable such as 0.2~50ml microtubes and tubes or small container whose diameter is less than 108mm.

## 02 Operation Instruction

### 2.1 Structure:



## 2.2 Keyboard and Display Panel:



## 2.3 Key Function:

**+ -**

To increase or decrease the setting value of time or temperature, Continuously pressing can increase or decrease quickly. Max . setting time is 999min, timing range is 1s – 999 min, speed range is 300-3000rpm

### Start/Stop

Start/Stop button. After desired speed and time are set, press to start operation. During operation, press it to stop operation.



Key to make cursor move , Press one time can make cursor move one step.

### Short

Key for touch to mix. Press the key, keep running at highest speed of 3000rpm. Loose the key to stop running.

## 2.4 Operation Guide:

### 1. Speed and time setting

a) When the instrument powers on, display screen will show "8". one by one.

The instrument goes into the initial state with the sound of "du...";

b) After about 2s later, speed display window shows 17. It means the last set speed is 1700 rpm. The time display window shows 010. It means the set operation time is 10 seconds or 10 minutes.

c) When cursor is below the time window, press "+" or "-" to set time. When cursor is flashing, the value can be adjusted till get the desired value.

d) When cursor is below the speed window, press "+" or "-" to set speed value. When cursor is flashing, the value can be adjusted till get the desired value.

e) Press the key "+" or "-" for 6s, the adjustable unit will be moved from second unit to minute unit. In contrast, the unit will be moved from minute unit to second unit. If the adjustable unit moves to minutes unit, the minutes indicator light is on. When the minutes indicator light is off, that means the adjustable unit is second unit.

f) Short Key for touch to mix. Press the key and hold on, the machine will be running at the highest speed, 3000 rpm. Release the key to stop.

g) When "000" is displayed in the window, it means the time is limitless.

## 03 Accessories

### a) Foam Block



### Standard Platform:

|           |                                                         |
|-----------|---------------------------------------------------------|
| BX-103875 | Used with standard platform, For 0.2ml tube, 70 wells   |
| BX-103876 | Used with standard platform, For 0.5ml tubes, 36 wells  |
| BX-103877 | Used with standard platform, For 2.0ml tubes, 20 wells. |
| BX-103878 | Used with standard platform, For 15ml tubes, 8 wells.   |
| BX-103879 | Used with standard platform, For 50ml tubes, 4 wells.   |

## b) Standard Head



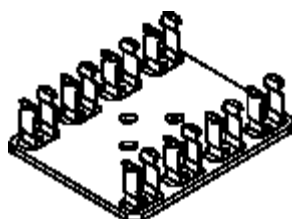
For tubes or small container ,  
diameter is less than 108mm.

## c) Flat Pad



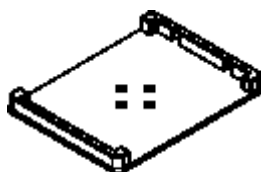
Used with standard platform,  
For tubes or small container,  
diameter is less than 108mm.

## d) ) Platform with tube clam



|                                 |                      |
|---------------------------------|----------------------|
| BX-103880                       | For 0.2ml tubes x 22 |
| BX-103881 (Max. speed 2000 RPM) | For 15ml tubes x 4   |
| BX-103882 (Max. speed 2600 RPM) | For 50ml tubes x 2   |

e) Microplate Platform



For various of micro-plates and deep well plate

f) Universal Platform





|                      |                                                     |
|----------------------|-----------------------------------------------------|
|                      | For various of micro-plates and deep well plates    |
| 1.5/2.0ml tube stand | For 24x1.5ml or 2.0ml microtube                     |
| PCR 96-well stand    | For 0.2ml microtube, PCR strip or 96-well PCR plate |
| 0.5ml tube stand     | For 24X0.5ml microtube                              |

## 04 Parameter

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| Operation Display Mode:Press + Digital Display | Shaking Mode:Continuous operation / Short mix |
| Orbit Diameter:2mm                             | Speed Rang:300-3000rpm                        |
| Time Range:1s-999min                           | Voltage:DC 24V                                |
| Input Power :30W                               | Frequency:50/60HZ                             |
| Net Weight:2.2kgs                              | Over Dimension:156X132X150 mm                 |

## 05 Failure Analysis and Processing Procedures

| Phenomenon                                 | Possible Causes                                                     | Processing Procedure                                                |
|--------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| No signals on the display when power on.   | 1. Power line not inserted                                          | Insert the power line                                               |
|                                            | 2. Broken Switch                                                    | Exchange the switch                                                 |
|                                            | 3. Switch off                                                       | Turn on the switch                                                  |
|                                            | 4. Others, contact with the seller                                  | Contact with the seller                                             |
| The actual and display speed is different. | The actual and display speed is different. Contact with the seller. | The actual and display speed is different. Contact with the seller. |
| Display "ERR speed out of control"         | Contact with the seller.                                            | Contact with the seller.                                            |
| Strong vibration                           | Asymmetric placement of capacity                                    | Symmetrical placement of capacity                                   |
| Press Invalid                              | Broken Key                                                          | Contact with the seller                                             |





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