# Instructions for Use of the Multi-tube Vortex Mixer

# Model Number: 3D ─ 3000

# Content

**1. Product Introduction**

**2. Guide to Operation**

**3. Replacement Foam Rack**

**4. Packing List**

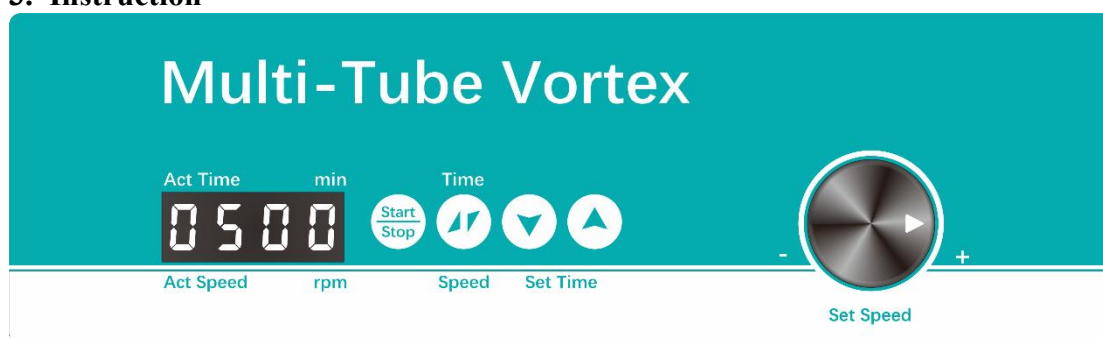# Product presentation

## 1. Product Introduction

The 3D-3000 multi tube vortex mixer uses a DC brushless motor and can mix up to 28 samples at a time. One test tube rack can simultaneously handle the mixing of samples of different test tube specifications such as 2ml, 5ml, 10ml, 15ml, and 50ml. The test tubes can be directly inserted into the test tube rack, making the experimental operation more convenient and simple.

- Colorful touch screen for more intuitive operation.
- Constant speed mode, impact mode, and processing for different samples.
- DC brushless motor with better speed accuracy, rotational stability, and noise control.
- Different fixed sponges can be installed with different test tubes, and can handle up to 28 samples at a time.

## 2. Performance parameters

- Display: LED screen
- Motor: Brushless motor
- Maximum power: 120W
- Speed range: 300-3000rpm
- Rotation diameter: 3mm (horizontal rotation)
- Maximum load: 4.5Kg
- External dimensions: 310 * 450 * 200mm
- Net weight: 19Kg
- Working environment: 0-40 ℃
- Power supply: AC100-240V 50-60Hz

## 3. Instruction



3.1. Speed setting

After powering on, the display shows 500RPM (as shown in the above figure). Rotate the knob clockwise to increase the speed, and counterclockwise to decrease the speed (with a speed adjustment range of 300-3000RPM).

## 3.2. Time Setting ` 05:00`

- Press the (Time/Speed) conversion button to switch to the time setting, and the digital tube displays as shown in the above figure, press the up or down button to set the time, and press and hold the up or down button to continuously adjust the time.
- Press the (Time/Speed) conversion button again or directly rotate the knob to display the return speed setting.

## 3.3. Starting the equipment

- Press the (Start/Stop) key or press the knob button to start the device, and the display window displays the motor rotation speed.
- During the device startup process, rotate the knob to adjust the speed in real time (the display flashes when the set speed is displayed). After 5 seconds, return to display real-time speed.
- Press the (Start/Stop) button again or press the knob button to stop the device.

# Replaceable foam rack

| Module number | Module Description | Tube number | Module Size |
|---|---|---|---|
| STV-B01 | 5ml to 50ml tube rack is applicable | 20 | 260X180X45 |
| STV-B02 | 5ml to 25ml tube rack is applicable | 28 | 260X180X45 |

# Packing List

| No. | Item | Model | Unit | Quantity | Confirm | Remark |
|---|---|---|---|---|---|---|
| 1 | Main engine | | Set | 1 | | |
| 2 | Power line | | Pc | 1 | | |
| 3 | Replacement foam rack | | Pc | 1 | | |
| 4 | Instructions | | Pc | 1 | | |
| 5 | Fuse | | Pc | 1 | | |
| 6 | Certificate | | Pc | 1 | | |