

Section 3 Overview

3.1 Specifications

Rotation Speed	Speed Range.....150 to 1200rpm Orbit Diameter..... \varnothing 2.5mm Speed Accuracy..... \pm 1% of set speed up to 299rpm \pm 2% 300 to 1200rpm
Load	Maximum Load.....1kg @1200rpm/ 4kg @ \leq 400rpm(accessory included) Maximum Capacity(Centered on tray).....96-well Microplate 4 or 6 depends on different platforms
Time	Timing Range.....0, 1min.~99h59min.
Size	Overall Dimensions.....383×260×145mm Tray Dimensions.....275×235×14mm Packaging Dimensions.....487×387×264mm
Weight	Net Weight.....12.8Kg(28.2lb) Gross Weight.....15Kg(33.1lb)
Power Supply	Requirement.....AC100-240V, 50/60Hz, 72VA
Others	Certification.....RoHS, WEEE, cCSAus, CE Mark

3.2 Environmental Conditions

Application Environmental Conditions: indoor use	
Temperature.....	5 to 40°C
Altitude.....	\leq 2,000 m
Humidity.....	20% to 85%
Storage Environmental Conditions	
Temperature.....	0 to 60°C
Altitude.....	\leq 2,000 m
Humidity.....	20% to 90%, non-condensing

3.3 Safety Instructions

Please read the entire instruction manual before operating the Digital Microplate Shaker.

WARNING  **DO NOT** use the Digital Microplate Shaker in a hazardous atmosphere or with hazardous materials for which the unit was not designed. Also, the user should be aware that the protection provided by the equipment may be impaired if accessories used are not provided or recommended by the manufacturer, or are used in a manner not specified by the manufacturer.

CAUTION ! To avoid electrical shock, completely cut off power to the unit by disconnecting the power cord from the unit or unplug from the wall outlet. Disconnect unit from the power supply prior to maintenance and service. Any spills should be removed promptly. Bio hazard spills should be cleaned using approved liquid promptly. Solvent spills are a fire hazard. Stop the unit immediately, and **DO NOT** operate until clean up is complete and vapors have dissipated.

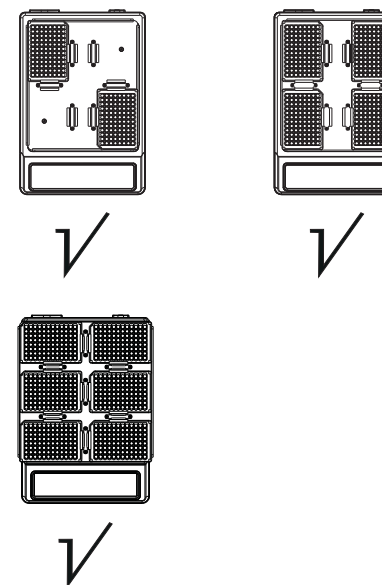
DO NOT immerse the unit for cleaning.
DO NOT operate the unit if it shows

signs of electrical or mechanical damage.

Position of Loads

Please place loads symmetrically during operation.

Symmetrical placement



3.4 Capacity and Speed

Load Type	Liquid Capacity	Cat. No.	Max Speed
96-well Microplate	1/2-well deep		1200rpm
96-well Microplate	2/3-well deep		800rpm
Fixed Tube Rack 50×Ø11mm 1.5ml tube		88882117	500rpm
Fixed Tube Rack 40×Ø18mm 15ml tube		88882118	450rpm
Fixed Tube Rack 21×Ø30mm 50ml tube		88882119	400rpm

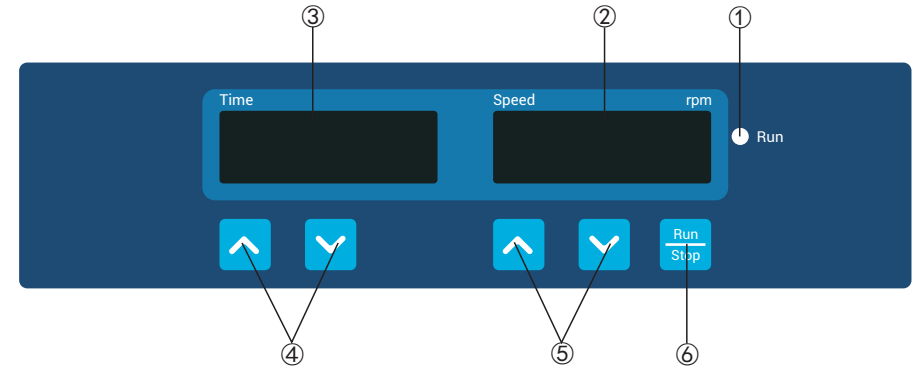
Note: These max. speeds are just for reference. We did the tests on the marble surface. Its friction coefficient is 0.32.

Warning: The rotation speed is inversely proportional to the load. When the instrument is running, it is recommended to adjust the rotation speed from low to high step by step and run the instrument at an appropriate speed to avoid spillage of liquids.

Section 4 Operation

This chapter covers the control panel and its operation.

4.1 Control Panel



- ① Run indicator: The light is on when the instrument is running and off when the instrument is in standby.
- ② Speed display window: The window displays set speed (when the instrument is in standby) or current speed (when the instrument is running).
- ③ Time display window: The window displays cumulative time (in continuous mode) or remaining time (in timer mode).
- ④ Time setting buttons: UP/DOWN arrow buttons are used to increase/decrease the set time of the instrument.
- ⑤ Speed setting buttons: UP/DOWN arrow buttons are used to increase/decrease the set speed of the instrument.
- ⑥ Run/Stop button: Start or stop the instrument.