

NEW

In vitro shaker Wave-PR/SI/SI slim, In vitro shaker 2 Wave-PR2/SI2

Compact sized and easy to use for bench tops and inside refrigerators. The mild shaking as if shaken by hand. Optimum for Immuno Precipitation and Western Blotting at a low-temperature room.

•CO₂ Incubators that can be inside this unit --> P.154-156

Features

- Mild shaking (Wave shaking) [PR/PR2]
- Seesaw shaking [SI/SI2/SI slim]
- Can be used even inside refrigerators with 4°C [All models]
- Digital display and settings are standardized, Optional functions are also available [PR2/SI2]

Applications

- Mild shaking of Centrifuge tubes and Large-size trays [PR/PR2]
- Mild shaking of Petri dish and Plastic containers, etc. [SI/SI2/SI slim]
- Staining/Decolorization, ImmunoPrecipitation, Western Blotting, and Trypsin, etc.

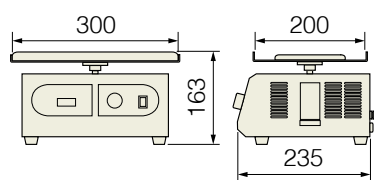


A Sticky sheet is included, but other parts are optional.

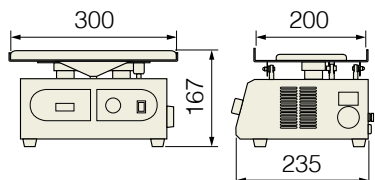
Model	Wave-PR	Wave-PR2	Wave-SI	Wave-SI2	Wave-SI slim
Shaking motion	Wave shaking (Mild shaking)		Seesaw shaking		
Speed/Angle range (*1)	5 to 50 r/min, 2 to 6°		5 to 50 r/min, 2 to 10°		
Platform dimensions	300 x 200 mm				180 x 120 mm
Ambient temp. range	0°C to 50°C				
Maximum load	Approx. 2 kg (SI slim: Approx. 1 kg *Optional platform and vessel holders are not included)				
Speed display/Setting	- / Volume adjustment	Digital display/Input	- / Volume adjustment	Digital display/Input	-
Option① Timer operation function	Not available	Available as an option •Timer mode (1 min to 99 h 59 min) * When the timer function is not being used, it can count the time. •ON-OFF •OFF-ON •ON-OFF-ON (Repeat) •Integral timer display (0 to 99 h 59 min or after: 100 h to 9999 h)	Not available	Available as an option •Timer mode (1 min to 99 h 59 min) * When the timer function is not being used, it can count the time. •ON-OFF •OFF-ON •ON-OFF-ON (Repeat) •Integral timer display (0 to 99 h 59 min or after: 100 h to 9999 h)	Not available
Option② Transmission output	Not available	Available as an option •Additional transmission output (1-5 V) terminal	Not available	Available as an option •Additional transmission output (1-5 V) terminal	Not available
Safety devices/functions	Motor protection circuit at overload, Fuse				
Dimensions (WxDxH)	300 x 235 x 163 mm		300 x 235 x 167 mm		180 x 130 x 110 mm
Weight	Approx. 5.1 kg		Approx. 5.5 kg		Approx. 1.8 kg
Power supply	AC100V/0.5A (Need a step-down transformer)	AC100V-240V/0.5A (universal power supply)	AC100V/0.5A (Need a step-down transformer)	AC100V-240V/0.5A (universal power supply)	AC100V/0.5A (Need a step-down transformer)
Standard accessories	Sticky sheet (ST-2030 for SI/PR, Dedicated type for SI slim) x 1 pc (*2)				

(*1)The maximum value may not be met depending on the optional platforms and vessels. (*2)Shaking platforms and vessel holders are also available as an option except SI slim (see the right figure).

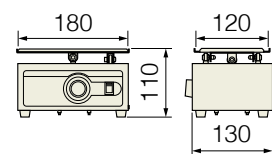
Dimensions Wave-PR/PR2



Dimensions Wave-SI/SI2



Dimensions Wave-SI slim



Additional optional functions (For PR2/SI2)

Option①: Timer operation function

The shaker can be "stopped" by turning it ON-OFF after the set time has elapsed and "started" by turning it OFF-ON. In addition, the operation can be "stopped and started repeatedly" by pressing ON-OFF-ON, thus preventing sedimentation of samples in the vessel and enabling work to proceed when the user is absent, such as after returning home or doing other work.

While the timer operation function is not used, it can count the time.

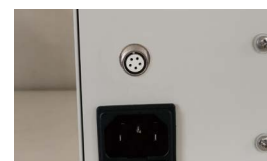


Wave-SI2 + Option①

Option②: Transmission output terminal extension

Attach a female terminal on the back of the main unit that can be connected to a recorder, etc.

From the terminal, the signal 1 to 5 [V] is output, which is corresponding to the speed display of 0 to 50 [r/min] for Wave-PR2/SI2. Since it can be connected to a recorder, etc., it is recommended for customers who need to record the operation of equipment used in the work process.



A connector for connection is included. Connect to the signal wiring (AWG22 to 24) from the target device.

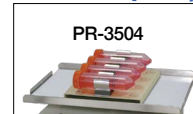
Optional shaking platform

Sticky sheet (PR/PR2/SI/SI2) <.....> Centrifuge tube holder for ST-2030 (additional option)

A white-colored non-slip sheet that is used by placing it on the platform. Eco-friendly special silicon material is adopted. Adhesion is weakened with dust and dirt can be recovered by washing with water.



Holder for Disposable centrifuge tubes, etc. that are placed on sticky sheets for use. Can place one. Recommended to place in the direction of photo.



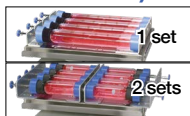
Model	ST-2030
Applicable models	Comes in Wave-PR/PR2/SI/SI2
Dimension	195 × 295 × 2H mm

•Use any speed and angle where the vessels do not fall.

Model	PR-1808	PR-3504
Applicable models	Suitable for Wave-SI/SI2	Wave-PR/PR2/SI/SI2
Vessels/ Capacity	Vessels with $\phi 16.5$ to 20 mm and approx. 150 mm in length (15 mL Disposal centrifuge tubes) × 8 pcs	Vessels with $\phi 29$ to 35 mm and approx. 150 mm in length (50 mL Disposal centrifuge tubes) × 4 pcs

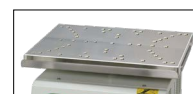
Horizontal clamp for Centrifuge tube (PR/PR2/SI/SI2) <...>

This securely holds the Centrifuge tube, Stopped test tube, or Water-compliant 100 mL Color comparison tube. Optimal for Extraction experiment. Mounted on MT-2030 for use.



Universal shaking platform (PR/PR2/SI/SI2)

This is required when using Horizontal clamps for Centrifuge tubes on the left. Be sure to use the clamps so that the vessels can be securely held.

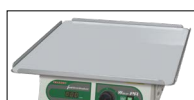


Model	AT-0004
Vessels	Diameter 10 to 37 mm, 4 pcs in 1 set
Capacity	With 1 set: Vessels with 75 to 240 mm in length such as 100 mL Color comparison tube. (*) With 2 sets: Vessels with 75 to 110 mm in length such as 50 mL Centrifuge tube.

(*)Vessels longer than 110 mm are recommended for use in Wave-SI/SI2.

Large-sized shaking platform (PR/PR2/SI/SI2)

Large sized culture trays and TC flasks can be mounted. Comes with 1 pc Dedicated Sticky sheet. Remove the standard platform to replace it.



Model	WR-3636
Dimension	364 × 364 × 12H mm

•Use any speed and angle where the vessels do not fall.

Model	MT-2030
Applicable models	Wave-PR/PR2/SI/SI2
Dimension	200 × 300 × 23H mm

Two-tier shaking platform (SI/SI2)

It is designed to be fixed on the top of the platform, making it two-tiered. Convenient to stain multiple Electrophoresis gel. Convenient to stain Mini Gel. Comes with 1 pc of Sticky sheet ST-2030.



Model	WR-2030
Applicable models	Suitable for Wave-SI/SI2
Dimension	204 × 304 × 168H mm

•Use any speed and angle where the vessels do not fall. •Maximum load should be 1.2 kg when using this.

Features for Wave-PR/PR2 (Wave shaking) and Wave-SI/SI2 (Seesaw shaking)

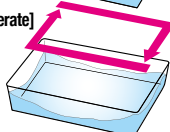
Wave-PR/PR2

Wave-PR/PR2 (Wave shaking) has less variation in the motion that enables constant mild stirring. Please note that when a liquid volume is very small compared to the capacity of container/tray, the liquid may not move to the center of the tray.

[Liquid volume is very small]



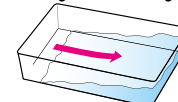
[Liquid volume is moderate]



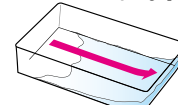
Wave-SI/SI2

By making the longitudinal direction of the tray inclined and reducing the liquid volume, the momentum and distance of liquid can be gained. Also, even if the liquid volume is small, it can be spread all over the container/tray. Please note that when shaking thin samples such as PAGE, the gel might be rounded at the end of the plates depending on the tilt angle.

[Liquid volume is large or Shallow angle]



[Liquid volume is small or Deep angle]



The angles of the platform for Wave-PR/PR2 and Wave-SI/SI2

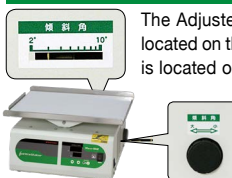
Wave-PR/PR2

The Indicator and Adjuster for the tilt angle are located on the right. 2° to 6° can be adjusted horizontally.



Wave-SI/SI2

The Adjuster for the tilt angle is located on the right and Indicator is located on the back. 2° to 10° can be adjusted horizontally.



Wave-SI slim

The body is about half the size of the Wave-SI, but the platform size is the same for 1 pc of Well plate. The tilt angle is fixed at 6°.

