CM-8 Centrifuge & Mixer All-in-One

User Manual



> Read this manual carefully before using the instrument and keep it properly.

1 Safety Instructions for Use

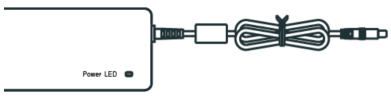
1. Always use the power adapter supplied with this instrument. Using other power adapters may damage the instrument.
2. Place the instrument on a level surface during use. An uneven surface may cause abnormal operation or damage.
3. Disconnect the power supply before moving the instrument.
4. Do not use the instrument to handle corrosive or explosive chemicals.
5. Maximum load weight for mixing and centrifugation: 20 g.
6. If liquid is spilled on the instrument, disconnect power immediately and clean the instrument.
7. Always load centrifuge tubes evenly. To maintain balance during mixing and centrifugation, insert an equal number of uniformly filled centrifuge tubes in opposite positions on the rotor.

2 Unpacking and Parts Description

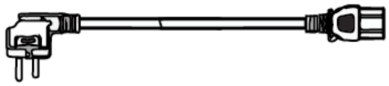
Before using the instrument, check that the package contains the following items. If any parts are missing or damaged, please contact your instrument supplier.



CM-8 Main Unit

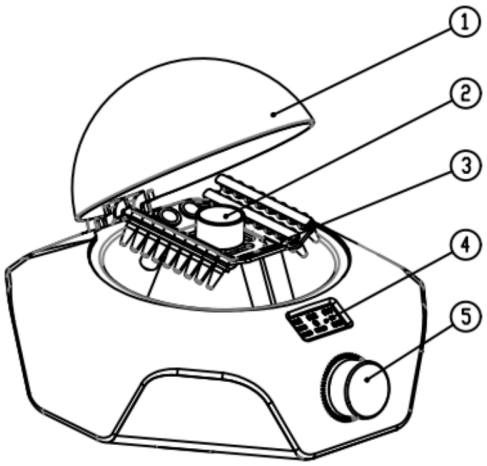


Power Adapter



AC Power Cord

3 CM-8 Main Unit Introduction



① Protective Cover

② Locking Nut

③ Centrifuge Tube Rack

④ Screen

⑤ Control Knob

4 Program Editing

The instrument is equipped with a display screen to preview the currently running program, as shown below:



Speed Indicates the rotation speed during centrifugation. “3000” is the speed value in rpm. “00:10” means the duration after reaching 3000 rpm is 10 seconds.

Mix Indicates the mixing intensity, with options: Strong, Medium, Gentle. “00:10” is the mixing duration.

Cycle Indicates the number of cycles (one centrifugation + one mixing = one cycle). “5” means 5 cycles.

Run Current status, Run or Stop.

Recommended Program Settings

Centrifuge Speed	3000 rpm
Centrifuge Time	10 seconds
Mixing Intensity	Medium
Mixing Time	10 seconds
Cycle Count	5

Operation Steps

1. Turn on the power; the instrument is in standby mode. Short press the control knob to enter working mode.
2. In working mode, long press the knob for 2 seconds until a beep sounds to enter parameter editing mode.
3. The **Speed** item flashes. Rotate the knob until “3000” is displayed.
4. Short press the knob again to switch to **Centrifuge Time**; rotate until “00:10” is displayed.
5. Short press the knob again to switch to **Mixing Intensity**; rotate to select “Medium”.
6. Short press the knob again to switch to **Mixing Time**; rotate until “00:10” is displayed.
7. Short press the knob again to switch to **Cycle Count**; rotate until “5” is displayed.
8. Program editing completed. Long press the knob for 2 seconds until a beep sounds to exit editing and return to working mode.
9. Press the knob once to start the instrument. “Stop” changes to “Run” on the screen, and the instrument starts working according to the set program.

5 Instrument Specifications

Item	Specification
Model	CM-8
Centrifuge Speed	1500–4000 rpm
Speed Step	100 rpm
Mixing Intensity Levels	Strong, Medium, Gentle
Compatible Racks	8-tube strip rack (also holds four 1.5/2 ml tubes); CM-8 Plus adds a 12-place 1.5/2 ml tube rack
Rack Locking	Quick-release knob
Locking Force	Multi-level adjustable
Program Memory	Yes
Program Cycles	1–999
Lid Open Stop	Sensor-activated
Adapter Input	AC 100–240 V, 1.4 A, 50/60 Hz
Adapter Output	DC 24 V, 2.5 A
Max Input Power	60 W
Dimensions	218 mm × 234 mm × 136 mm
Weight	≤ 1.5 kg

6 Daily Maintenance and Warranty

Daily Maintenance

It is recommended to clean the instrument daily. Wipe the instrument surface and centrifuge tube rack with 75% ethanol. Do not use strong organic solvents such as acetone or toluene, as they may damage the instrument.

Warranty Period

The CM-8 main unit and accessories are warranted for 1 year from the original purchase date.

Repair Policy

The equipment will be repaired or replaced according to the specific fault condition. Replaced parts and accessories are covered for the remaining original warranty period or 90 days from the replacement date, whichever is longer.

For more instrument information, please visit www.biori-en.com or contact marketing@biori-en.com.