

Digital Magnetic Stirrer, 200-1600rpm, Timer

Cat. No. BT1022



Thanks for choosing BT Lab Systems' BT1022 Digital Magnetic Stirrer, 200-1600rpm, Timer. This operation manual describes the function and operation of the instrument. In order to use the instrument properly, please read this manual carefully.

IMPORTANT SAFETY INFORMATION

The operation, maintenance and repair of the instrument should comply with the basic guidelines and warning below. Ignoring these instructions will affect the life of the Instrument and safety precautions.

- This product is an indoor Instrument which conforms to Standard B style- I type- GB9706.1.
- These units are designed for laboratory use by persons knowledgeable in safe laboratory practices.
- The operator should never open or repair the instrument. Opening or repairing the instrument will void the guarantee and can cause accidents.
- The power plug should safeguard against an electric shock. Make sure the power supply voltage matches the voltage that the instrument needs.
- The instrument should be used in an area with low temperature, little dust, no water, no direct sunshine or hard light and with good air circulation. Do not use where there is corrosive gas or a strong magnetic field. Keep far away from central heating and other hot sources.
- Power off when not in use. If the instrument will not be used for a long period, unplug, and cover with a piece of cloth to protect it from dust.
- In case of the following, unplug the instrument at once and contact BT Lab Systems.
 - The instrument comes into contact with liquid
 - The instrument gets soaked or burned
 - The instrument emits an abnormal sound or smell
 - The instrument is dropped or the outer shell damaged
 - The instrument functions abnormally.

MAINTENANCE

The instrument and the accessories should be cleaned with a cloth dampened by alcohol. If there are smudges on the instrument, clean it with a dry cloth.

WARRANTY

The instrument is warranted against defects in materials and workmanship for 1 year. If any defects occur in the instrument or accessories during this warranty period, BT Lab Systems will repair or replace the defective parts at its discretion without charge.

For any inquiry or request for repair service, contact your local BT Lab Systems office. Inform BT Lab Systems of the model and serial number of your instrument.

INTRODUCTION

BT1022 Digital Magnetic Stirrer, 200-1600rpm, Timer is equipped with magnetic stirrer mixing technology and has user-friendly design. This product is mainly used in the fields of medicine, bioengineering, chemistry, medicine, food, and other research fields. It is a routine instrument necessary for the biological laboratory to stir and mix various reagents, solutions and chemical substances.

KEY FEATURES

- The stirrer can stir 50ml-20L standard or non-standard reaction bottles.
- The stirrer is equipped with silicone pad on the working surface and the shell is made of metal. The stirrer has high strength, high temperature and corrosion resistance.
- Exquisite and compact design of the whole instrument with digital display speed and time
- 30° slope control panel for seated and standing point of view
- High magnetic flux design, strong mixing ability, adopt no motor drive mode, low noise.

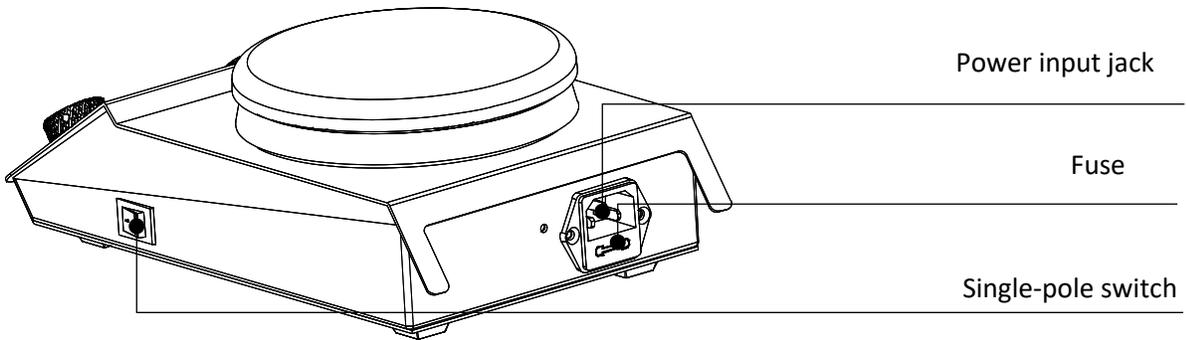
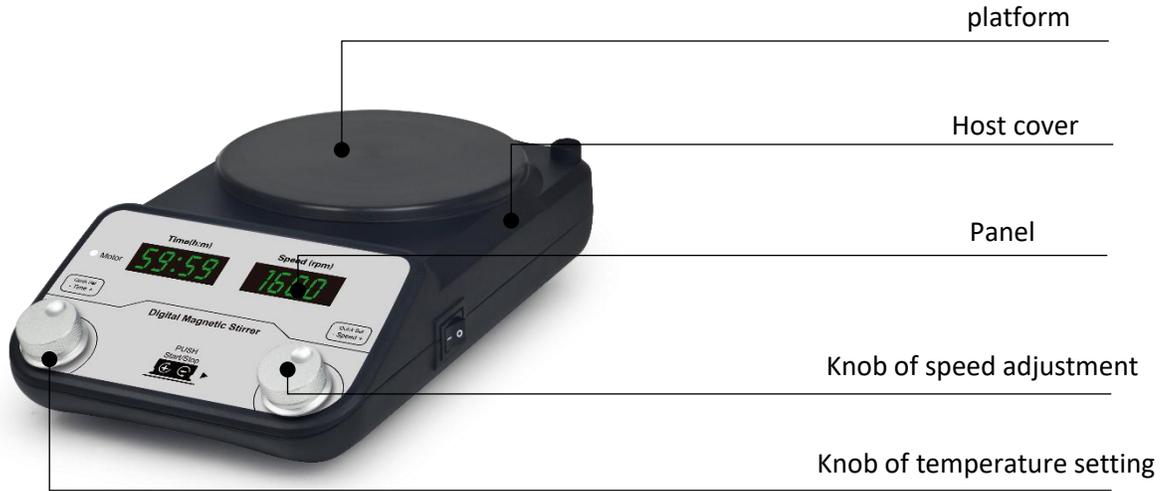
NORMAL OPERATING CONDITIONS

- Ambient Temperature: 4-45°C
- Relative Humidity: ≤70%
- Power: AC220V, 50/60Hz

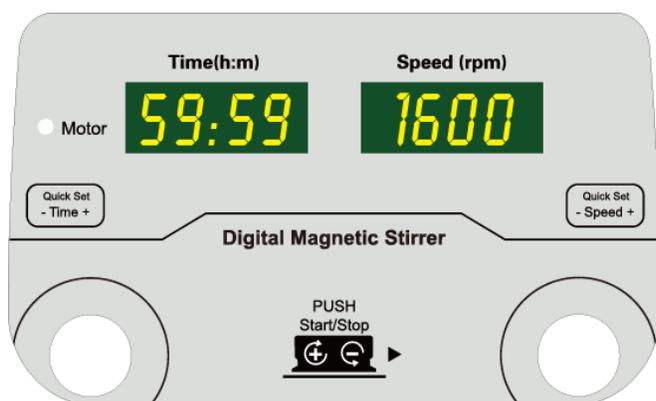
TECHNICAL SPECIFICATIONS

Type	BT1022
Diameter of Heating Plate	Φ137mm
Heating Plate Material	Silicone pad
Speed Range	200-1600rpm
Timing range	1min-99h59min. 0 means infinite length
Number of stir point	1
Max. Stir Capacity (H ₂ O)	20L
Motor type	DC Brushless Motor
Voltage	220V
Frequency	50/60 Hz
Power Input	20W
Fuse	250V, 1A, Φ5x20
Dimension (W x D x H)	W.160×D.270×H.70mm
Net weight(kg)	1.88kgs

EQUIPMENT OVERVIEW



KEYBOARD AND DISPLAY PANEL

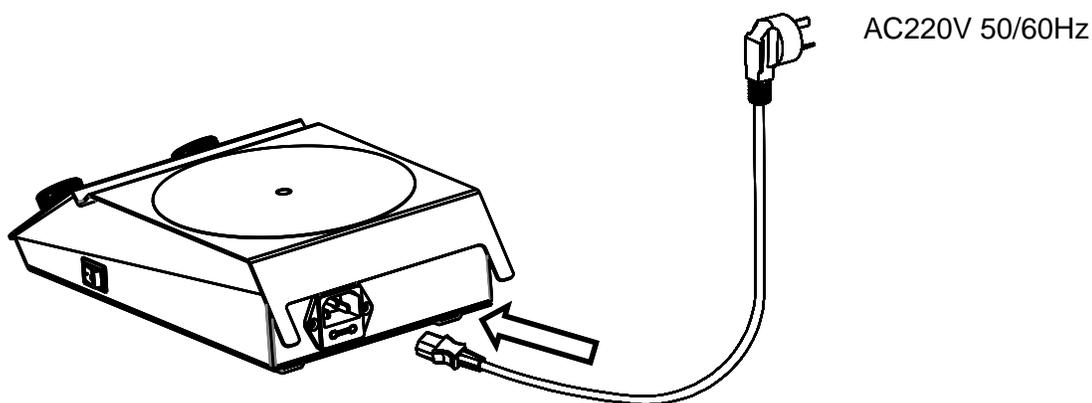


Knob instructions

- Rotate the left knob clockwise to increase the time setting and anticlockwise to decrease the time setting.
- Rotate the right knob clockwise to increase speed setting and anticlockwise to decrease the setting speed. Press the right knob to start the operation and press it again to stop operation

Power Connection

Place the instrument on a horizontal and even working table. Connect power as below figure. DC socket is on the rear part of the instrument. Voltage should be AC220V.



OPERATION GUIDE

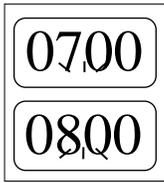
Speed and time setting

- Switch on the power. The screen will display '8' one by one, and the instrument enters initialization.



- When the display at Speed shows for example: 700, it indicates that the speed of the last instrument operation was 700 rpm. To increase the speed, rotate the right knob clockwise and

to decrease the speed rotate it anticlockwise. For example, to change the setting value to 800RPM, turn the right knob clockwise until the display window value is 800.



- The display screen at Time shows 00:35, indicating that the set Time of last operation is 35 minutes. The left knob increases the set value clockwise, decreases the set value counterclockwise. To change the setting value to 50min, turn the left knob clockwise until the display window value is 00:50.



NOTE: *The timing value displays 00:00 means run time is infinite (∞.)*

Stop / Start

- Click speed knob once to run the current program. The timer ends and the operation stops. The buzzer beeps.
- After the operation is completed, the buzzer will sound an alarm, and the instrument waits for instructions at the end interface. At this time, turning the SPEED or TIME knob can reset the speed or time; directly click the Speed knob to start the program according to the last set speed time parameter.
- During the operation, click the Speed knob to stop the instrument. Press again to restart the operation.

TROUBLE SHOOTING

Issue	Possible Causes	Solution
No display	No power	Check the power cord
	Power Switch Failure	Exchange power switch
	Other	Contact BT Lab systems
Motor does not work	Motor damaged	Contact BT Lab systems
Knob does not work	Broken knob	Contact BT Lab Systems
Actual speed and displayed speed are not matching	Broken controller	Contact BT Lab Systems

TECHNICAL SUPPORT

BT Lab Systems offers technical support for all of its products. If you have any questions about the product's use or, operation, please contact BT Lab Systems at the following:

E-Mail: info@BTLabSystems.com

APPENDIX A: WIRING DIAGRAM OF SP-16

(Below diagram is just for reference. It is subject to change without prior notice)

