DKCP

Peristaltic pump

Quick Start Guide

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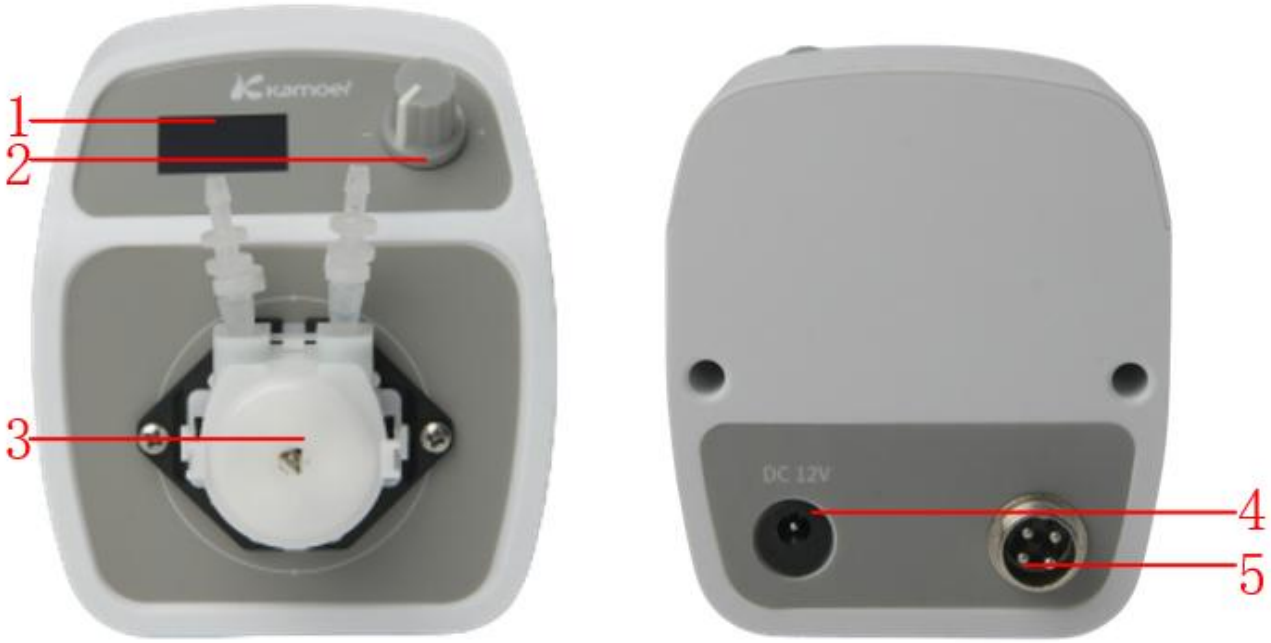


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Know DKCP

DKCP is mainly used in laboratory liquid separation and other scenarios. It is an intelligent peristaltic pump with high cost performance. The equipment can operate in manual and automatic modes through rotary encoder and display screen to deal with different liquid separation scenarios. Under the condition of ensuring accurate liquid separation flow and stable equipment performance, DC motor is adopted to provide product advantages of high cost performance.



1.Display 2.Adjustment Knob

3. Pump Head 4.DC12V 1A 5.Foot

Unpacking Preparation

Before opening the packing box, check whether the package is damaged during transportation. After opening the packing box, refer to the packing list in the appendix to confirm that there are no missing parts and check whether there are visible damages. If any defects are found in the process of unpacking, please contact the manufacturer immediately.

Equipment function

- **Device menu description**



When the device is stopped, rotate the button to enter the device menu page. Users can use the knob to switch between different options. When the cursor is on an option, press the button to enter the interface corresponding to the option

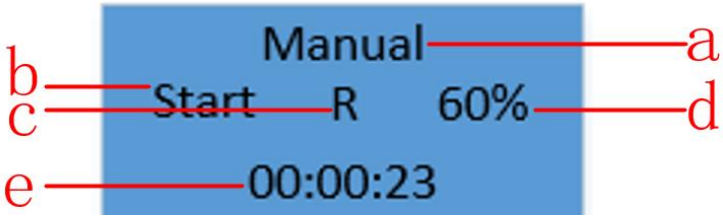
Manual: Enter manual mode;

Auto: Enter automatic mode;

Calibration: Enter the calibration page;

Set: Display the serial number of the device and the interface for restoring factory settings.

- **Manual working mode**



a.Working mode display: The functional position of the display interface is manual;

b. Start / Stop display: Click to start and stop the pump operation;

c. Forward and reverse: Click to select the forward and reverse rotation of the pump. “F” represents clockwise forward rotation and “R” represents counterclockwise reverse rotation;

d. Torque adjustment: Click to adjust the torque, which is directly reflected in the pump speed; (The DC motor is related to the transportation medium. The more viscous the medium is, the higher the torque is required. When transporting water, it is normal that the torque is adjusted to less than 50%, which may cause the pump to fail to

operate. At this time, increase the torque and it can work normally.);

e. Running time: Display the time after the equipment starts running. After stopping, click start again to refresh the last timing and re time;

- **Automatic working mode**



a.Working mode: The functional position of the display interface is automatic;

b. Start / Stop display: Click to start and stop the pump operation;

c. Running time: Display the running time or volume of the device in the current working mode;

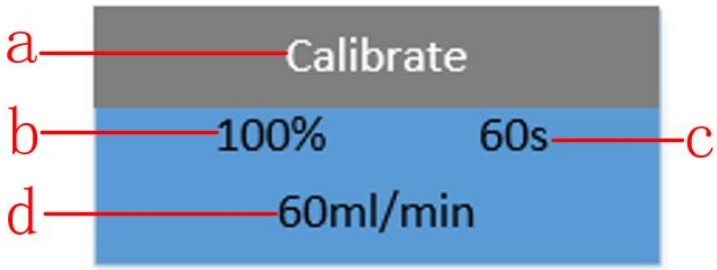
d. Operation mode display: the operation mode of the equipment operation, "L & V" is the volume circulation mode, "T & S" is the time circulation mode;

e. Interval duration display: the interval duration of each cycle;

f. Forward and reverse: Click to select the forward and reverse rotation of the pump. “F” represents clockwise forward rotation and “R” represents counterclockwise reverse rotation;

g.flow rate display: The current flow rate is displayed. The flow rate is calculated according to the actual calibration. If the torque is changed, it needs to be recalibrated.

- **Calibration**



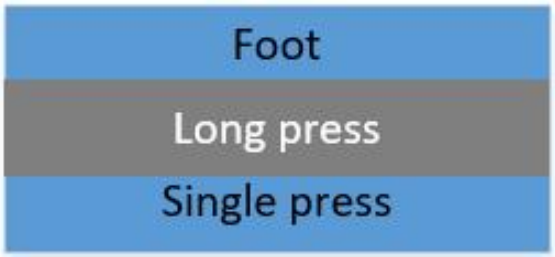
a.Calibrate: The title bar of the interface, when the cursor is on the title bar, press the button, the device returns to the upper interface;

b. Torque adjustment: Set the torque during calibration, rotate the cursor to the torque through the rotation button, press the button to enter the editing mode, adjust the torque through the rotation button, press the knob again to exit the torque editing mode;

c.Calibration time: The calibration time is fixed at 60 seconds. When the cursor is on the calibration time, press the button to start the calibration. When the 60-second countdown is completed, the user enters the obtained liquid volume into the device to complete the calibration;

d.Flow rate: The flow rate corresponding to the current speed. When the calibration is completed, the user enters the obtained liquid volume to complete the calibration.

- **Foot**



Enter the setting page and click the pedal parameter to set the pedal trigger. (the foot switch is an optional device. Users who do not use the foot switch do not need to set)

Long press operation: When the equipment is not running, press the foot switch for a long time, the equipment will run, release the equipment and stop running;

Click to run: When the equipment is not running, press the foot switch once, the equipment will run, and then press the foot switch again, the equipment will stop running;

Note

- Please use the product's own power adapter and work in the specified working environment.
- During the operation of the equipment, the torque can be adjusted to control the speed.
- After each torque adjustment, it needs to be recalibrated so that the flow can always be accurate.
- The equipment shall be placed in a reasonable position to ensure that the height difference between the liquid inlet and outlet is within 0.5m.
- The connecting pipe for liquid inlet should be as short as possible, and the connecting pipe for liquid outlet should be suspended above the tank.
- The flow of the pump will fluctuate according to the impact of the environment, and it is normal to have errors in the flow for many times.
- According to the different viscosity of the liquid, the torque required for the operation of the pump is different. For example, the working torque of water is 50% in the standard environment, and it is normal for the pump not to work when the torque is less than 50%. It can work normally by increasing the torque.

Technical Parameters

Dimensions (Lx W x H)	75x70x110mm
Weight	534g (power adapter is not included)
Power Adapter	DC12V 1A
Pump Parameter	Pump Head: KPP Flow: <=80ml/min
Interface	Adjustment knob
Working Environment	Temperatures: 0 - 70 ° C, Humidity: 10% - 90% (non-condensation)
Storage Environment	Temperature -20°C – 85°C Humidity 10% - 90% (non-condensation)

Packing List

No	Name	Model	Unit	Qty
01	Device	DKCP	pcs	1
02	Power adapter body	DC12V 1A	pcs	1
03	Power adapter plug	☐US ☐UK ☐EU ☐AU	pcs	1
04	Silica gel tube	3*5mm	meter	2
05	Quick Start Guide	English	pcs	1

Warranty service

Warranty service is only valid for users who are correctly installed, used and maintained according to the manual. Any malfunction or damage is not covered by the warranty. Please keep your purchase voucher properly so that you can get satisfactory after-sales service in time.

The company will provide free warranty service for any damage caused by manufacturing processes or components within one year from the date of purchase. The free repair service provided during the warranty period includes free repair, free replacement and replacement of faulty spare parts, and products that cannot be repaired are replaced by the same model. The free service does not include shipping costs for the product due to repairs.

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