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> Kamoer UIP WIFI Intelligent Peristaltic Pump User Manual - Model UIP WIFI-S183K

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Kamoer UIP WIFI Intelligent Peristaltic Pump User Manual

Model: UIP WIFI-S183K

1. PRODUCT OVERVIEW

The Kamoer UIP WIFI Intelligent Peristaltic Pump is a high-flow dosing pump designed for precise fluid transfer across various applications. This model features a new KK1800 pump head, Wi-Fi control capabilities, and multiple operating modes to suit diverse needs.

Key Features:

- **New KK1800 Pump Head:** Addresses previous pump head issues, ensuring enhanced durability and performance.
- **High Flow Rate:** Adjustable from 1 to 1520 ml/min.
- **Wide Voltage Compatibility:** Operates on 100V-240V AC.
- **Smart Control:** Supports mobile App and Wi-Fi control (within LAN range).
- **Multiple Operating Modes:** Includes Continuous, Ration, and Remote control modes.
- **Foot Switch Support:** Allows for convenient start and stop control.
- **Durable Construction:** Features a high-speed stepping motor and stainless steel rotor for extended service life.
- **Easy Maintenance:** Pump tube is designed for simple disassembly and assembly.
- **Versatile Applications:** Ideal for the food industry, factory production lines, laboratories, scientific research institutions, filling and sub-packaging, and medical equipment.



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Figure 1: Key Advantages of the Kamoer UIP Pump

2. SETUP AND INSTALLATION

2.1 Unboxing and Components

Upon unboxing, verify that all components are present:

- Main Unit (Kamoer UIP WIFI Peristaltic Pump)
- Power Cord
- Silicone Tube (1 meter)
- Foot Switch
- Product Manuals
- Grease
- Terminals



Figure 2: Kamoer UIP WIFI Peristaltic Pump Components

2.2 Power Connection

1. Locate the power connector on the rear panel of the main unit.
2. Connect the provided power cord to the rear power connector.
3. Plug the power cord into a suitable 100V-240V AC power outlet.
4. Flip the power switch to the 'ON' position. The touch screen will immediately display the operating interface.

2.3 Pump Tube Installation

1. Pull the slide bar on the pump head to open the pump cover.
2. Carefully insert the silicone tube (No. 18, 7.9mm ID x 11.1mm OD, 1.6mm wall thickness) into the pump head.
3. Snap the pump tube securely on both sides of the pump head.
4. Ensure the pump tube is straight and free from kinks.
5. Pull the slide lever back to close and secure the pump cover.

2.4 Foot Switch Connection

The foot switch provides convenient hands-free control for starting and stopping the pump.

1. Locate the foot switch connector in the lower right corner of the rear panel.
2. Connect the leads of the foot switch into the provided terminals.**Note:** The red wire connects to the foot switch input, and the yellow wire connects to GND.
3. Insert the terminal block into the corresponding connector on the pump's rear panel.

Your browser does not support the video tag.

Video 1: Kamoer NEW UIP Peristaltic Pump Operation Demonstration. This video covers pump tube installation, power-on, manual, quantitative, and smart modes, fill & recycle, system settings, and dual pump head installation.

3. OPERATING MODES

The Kamoer UIP pump offers several operating modes to cater to different fluid transfer requirements.

3.1 Manual Mode (Continuous Operation)

This mode allows for continuous fluid transfer at a set flow rate.

1. On the main screen, select the 'Mode' tab and then 'Continuity'.
2. Set the desired flow rate (ml/min) by directly entering the value or using the '+' and '-' buttons for fine-tuning.
3. Optionally, adjust the 'Degree of Speed Change' (e.g., 0.1, 1, 5, 10) to control the increment/decrement steps when using the +/- buttons.
4. Click 'Start' to begin continuous pumping.
5. To reverse the flow direction, click the 'CW/CCW' button.

3.2 Ration Mode (Quantitative Dosing)

This mode is used for dispensing specific volumes of liquid.

1. On the main screen, select the 'Mode' tab and then 'Ration'.
2. Click 'Edit' to configure the dosing parameters.
3. Set the following:
 - **Volume (ml):** The total volume of liquid to dispense per cycle.
 - **Cycle Mode:** Choose 'Auto' for automatic cycling or 'Semi-Auto' for manual initiation of each cycle.
 - **Flow Rate (ml/min):** The speed at which the liquid is dispensed.
 - **Pause Time (s):** The duration of the pause between cycles (if applicable).
 - **Count:** The total number of dosing cycles to perform.
4. After setting the parameters, click 'Start' to begin the dosing process. The pump will automatically stop after completing the set number of cycles.

3.3 Smart Mode (Intelligent Scheme Editing)

This mode allows for complex, multi-step fluid transfer programs.

1. In the program management interface, click 'New' and then select 'Intelligence'.
2. Click '+' to add a new step. You can add 'Action' steps (e.g., Uniform, Acceleration, Stair Increase/Decrease, Sine, Average) or 'Logic' steps (e.g., Delay, Cycle, Turn to, Wait for trigger, Output, End).

3. For 'Action' steps, configure parameters such as initial speed, flow rate increase, duration, and number of times.
4. For 'Logic' steps, configure parameters like cycle start step and number of cycles.
5. After configuring all steps, click 'Save Settings'.
6. Select your saved program and click 'Apply' to load it to the home page.
7. Click 'Start' to execute the intelligent program.

3.4 Remote Control (Wi-Fi App)

The pump can be controlled remotely via a mobile application (within LAN range).

1. On the pump's screen, navigate to 'Mode' and select 'Remote'.
2. Choose 'WiFi or Bluetooth' option.
3. Select 'Auto Connect' to put the pump in a waiting state for app connection.
4. Download the 'Kamoer Pumps' application from your mobile app store.
5. Ensure your mobile device is connected to the same Wi-Fi network (2.4GHz) as the pump.
6. Open the 'Kamoer Pumps' app, select the device (UIP), and follow the on-screen instructions to connect.
7. Once connected, you can set parameters and control the pump (start/stop, flow rate, etc.) directly from the app.

Your browser does not support the video tag.

Video 2: Kamoer UIP WIFI I Peristaltic Pump Introduction. This video demonstrates app control and other features.

4. FILL & RECYCLE FUNCTION

This function assists in preparing the pump for operation and recovering liquid.

1. On the main screen, select the 'Fill & Rec' tab.
2. **Fill:** Click 'Fill' to quickly fill the pump tube with liquid, removing any air bubbles before operation.
3. **Recovery:** Click 'Recovery' to suck the liquid from the outlet tube back into the original container, useful for preventing drips or recovering unused liquid.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Kamoer UIP pump.

- **Pump Tube Replacement:** The pump tube is a consumable part and should be replaced periodically or if signs of wear are observed. The easy disassembly design facilitates quick replacement.
- **Cleaning:** Regularly clean the exterior of the pump with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Lubrication:** Apply the provided grease to the pump head rollers as instructed in the detailed manual to ensure smooth operation and extend the life of the pump tube.
- **Storage:** When not in use for extended periods, disconnect the power, clean the pump, and store it in a dry, cool place.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Kamoer UIP pump.

- **Pump Not Starting:**

- Ensure the power cord is securely connected and the power switch is ON.
- Check if the foot switch is properly connected and functioning (if in use).
- Verify that an operating mode is selected and parameters are set correctly.

- **Inaccurate Flow Rate:**

- Check the pump tube for wear or damage; replace if necessary.
- Ensure the correct tube type is selected in the system settings.
- Perform a calibration if available in the system settings.

- **Wi-Fi Connection Issues:**

- Confirm the pump and your mobile device are on the same 2.4GHz Wi-Fi network.
- Check Wi-Fi signal strength.
- Restart both the pump and your mobile device.

- **Screen Unresponsive:**

- Perform a touch screen correction from the system settings.
- Restart the device.

For issues not covered here, please refer to the detailed product manual or contact Kamoer customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	K KAMOER
Model Number	UIP WIFI-S183K
Power	75W
Voltage	100V-240V AC
Flow Rate Range	1-1520 ml/min (Max 1.52 Liters Per Minute)
Speed Range	1-350 rpm
Noise Level	<65 dB
Item Weight	5.6 kg (12.35 pounds)
Product Dimensions	11.77 x 5.98 x 9.61 inches
Material	Stainless Steel
Display Style	LCD
Pump Head	KK1800 (3 rotors)

Tube Dimensions	7.9mm ID x 11.1mm OD, 1.6mm wall thickness
Motor Life	>6000H
Maximum Lifting Height	393.7 Inches

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Specific warranty details for the Kamoer UIP WIFI Peristaltic Pump are not provided in the available product information. Please refer to the warranty card included with your product or contact Kamoer customer service for detailed warranty terms and conditions.

8.2 Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact Kamoer customer support through their official channels. You may also visit the [K KAMOER Store on Amazon](#) for additional resources.