



**Diagnostic Reagent Enhanced  
Automatic Mechanism**

---

# DREAM SI-600

## User Manual



---

**SHINJIN MEDICS.INC**

**[www.diakey.com](http://www.diakey.com)**

**TEL : 82-31-909-8855**

**FAX: 82-31-908-0982**

---

# Contents

|                                   |     |
|-----------------------------------|-----|
| 1. Warning .....                  | 3   |
| 2. Composition of product .....   | 4-5 |
| 1) Components .....               | 4   |
| 2) Installation .....             | 4   |
| 3) Specification .....            | 5   |
| 3. How to Use.....                | 6-8 |
| 1) Diagram of Control Panel ..... | 6   |
| 2) How to operate .....           | 7   |
| 3) After-Service .....            | 8   |

---

# 1. Warning

## 1) Warning when installation

- 1) Avoid place of high temperature and humidity and install it in well-ventilated place.
- 2) Install it horizontally where there is no vibration, maintaining 30 cm distance from wall.
- 3) Avoid the place which has flammable substance and danger of explosion for safety.
- 4) Connect power suitable for capacity by checking rated voltage without fail.
- 5) Do not install it where change in voltage is significant. (Permissible regulation of voltage:  $\pm 10\%$ )
- 6) Use socket for earthing without fail.

## 2) Warning during use

- 1) Do not use it where indoor temperature is below 2°C & above 40°C and humidity is above 80%. The equipment may not be operated normally.
- 2) Do not insert or take out power plug with wet hand because there is risk of electric shock.
- 3) If there is strange smell or smoke, disconnect power immediately and take due measures by contacting person in charge.
- 4) Do not take out Rack or Carrier while shaking, if it is inevitable, take it out after stopping it.
- 5) Be careful that solution may overflow when operating it with too much solution being poured into flask while its lid opened.
- 6) Work after wearing gloves because your hand can be hurt by sharp edge, while fixing object to be cultivated to holder or changing Acc.
- 7) Adjust speed slowly because solution may overflow if you raise speed rapidly.
- 8) When error occurs during operation, disconnect main power and take due measures by contacting customer service center of our company.

## 3) Other warning

- 1) Do not clean equipment with chemical solution such as solvent or thinner, use neutral detergent instead.
- 2) Change of components and repair/alteration is prohibited by the person other than service expert authorized by our company. It may cause not only damage to this product or normal function but danger to safety such as electric shock or fire.

---

## 2. Composition of product

### 1) Components

After you receive product, check each component of this equipment before installation.

- |                               |         |
|-------------------------------|---------|
| 1. Main Body                  | : 1 ea  |
| 2. AC POWER CABLE(220V)       | : 1 ea  |
| 3. RALS Deck (or Spring Deck) | : 1 ea  |
| 4. User Manual                | : 1 pcs |

### 2) Installation

1. Place the main body on horizontal place where bottom is flat and no-vibration
2. Connect AC power

---

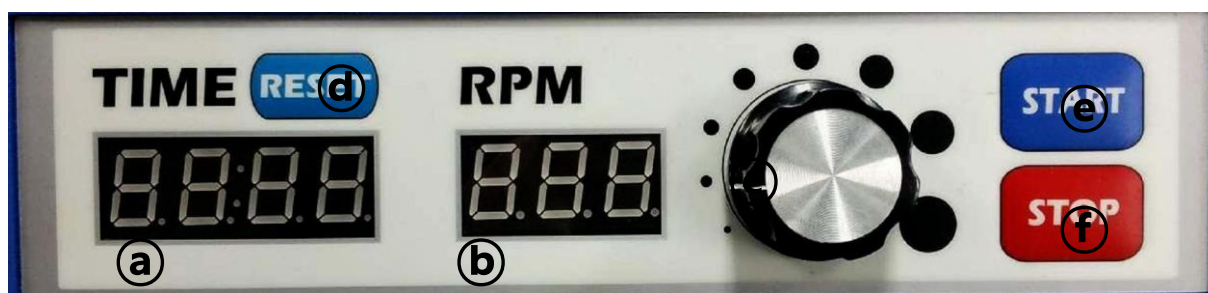
## 2) Specification

|                      | Description                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension            | A. Body (without Cover)<br>RALS: 495(W) x 490 (D) x 120(H)<br>SPRING: 495(W) x 490 (D) x 133(H)<br>B. Body (with Cover)<br>495(W) x 490 (D) x 247(H)<br>C. Sprint Deck<br>490(W) x 410(D) x 20(H) |
| Weight               | 22 Kg                                                                                                                                                                                             |
| Max Tube (RALS Type) | 300                                                                                                                                                                                               |
| Speed Control        | Solid State Electronic Controller                                                                                                                                                                 |
| Speed Range          | 50 ~ 350 RPM (Adjustable by 5 RPM)                                                                                                                                                                |
| Drive Motor          | Brushless D.C. Motor                                                                                                                                                                              |
| Motion               | Orbital type (Orbital Diameters : 10mm)                                                                                                                                                           |
| Display type         | Digital Display (Time , RPM)                                                                                                                                                                      |
| Integral Timer       | 99hr 59min (used time)                                                                                                                                                                            |
| Noise                | Below 30dBa                                                                                                                                                                                       |
| Power                | 100~240VAC, 50/60HZ, 1Phase                                                                                                                                                                       |

---

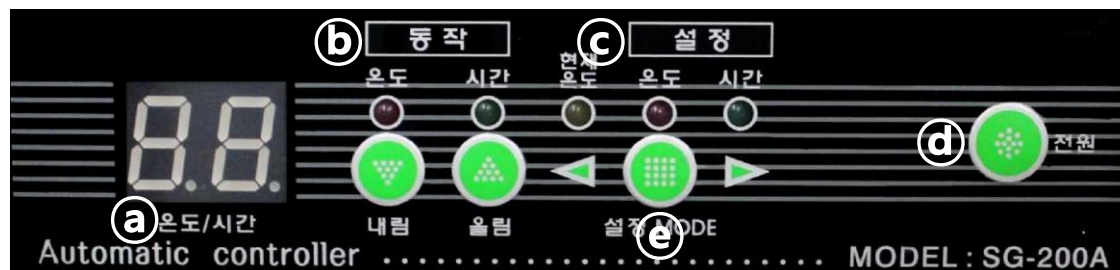
## 3. How to Use

### 1) Diagram of Control Panel(Shaking)



| Order | Name                 | Function                                  |
|-------|----------------------|-------------------------------------------|
| ①     | TIME DISPLAY WINDOW  | Display window indicating hour of use     |
| ②     | SPEED DISPLAY WINDOW | Displaying window indicating speed of RPM |
| ③     | SPEED CONTROL        | To change RPM                             |
| ④     | TIMER RESET S/W      | To initialize hour of use to zero         |
| ⑤     | START S/W            | To turn on shaking                        |
| ⑥     | STOP S/W             | To turn off shaking                       |

## 2) Diagram of Control Panel (Heat)



| Order | Name               | Function                                 |
|-------|--------------------|------------------------------------------|
| ①     | Temperature / Time | Display window indicating hour of use    |
| ②     | Control panel      | Adjust time temperature / time           |
| ③     | Heat indicator     | Flashing light represent heat activation |
| ④     | Power button       | Turn on / off                            |
| ⑤     | Mode button        | Switch temperature / time                |

## 3) Instruction for use(Shaking)

1. Turn on Power S/W on the rear side of the instrument.
2. When power is supplied, current status is shown on TIME DISPLAY WINDOW and SPEED DISPLAY WINDOW respectively.
3. Place the object to be shaken properly on plate.

**! Careful for hands not to hurt by sharp edge or for contents not to overflow.**

4. Set the speed of RPM.
  - a. Turn SPEED CONTROL completely to counterclock wise.

---

b. Press START S/W button

C. Set RPM value turning SPEED CONTROL to the right or left watching RPM values shown on SPEED DISPLAY WINDOW.

**If you operate shaking without RPM to the left or turn speed control too fast, contents may overflow.**

5. Incubate the object as per condition

6. After shaking, press STOP S/W and take the object out of plate.

**! Before taking out, shaking should completely be stopped.**

**! Careful for hands not to hurt by sharp edge or for contents not to overflow.**

7. After use, turn off POWER S/W on the rear side of instrument.

#### 4) Instruction for use(Heat control)

1. Turn on Power S/W on the rear side of the instrument.

2. Press power button and use ◀▶ on the mode button to set the mode to temperature

3. Use ▲▼ on the control panel to adjust the temperature

#### 4) After-Service

For the safety of user and proper function of product, A/S for our product shall be carried out only by A/S expert authorized by our company and we inform you that we are not liable for any accident caused by illegal modification or A/S carried out by personnel not authorized by our company, therefore if you have any problem during use, please inform our Head office after checking below items.

1. Required information to apply A/S



- 
- A. Name and model number of product.
  - B. Year of purchase
  - C. Symptoms for which A/S is required (as much detailed information as possible)
  - D. User information ( location, name and contact point )