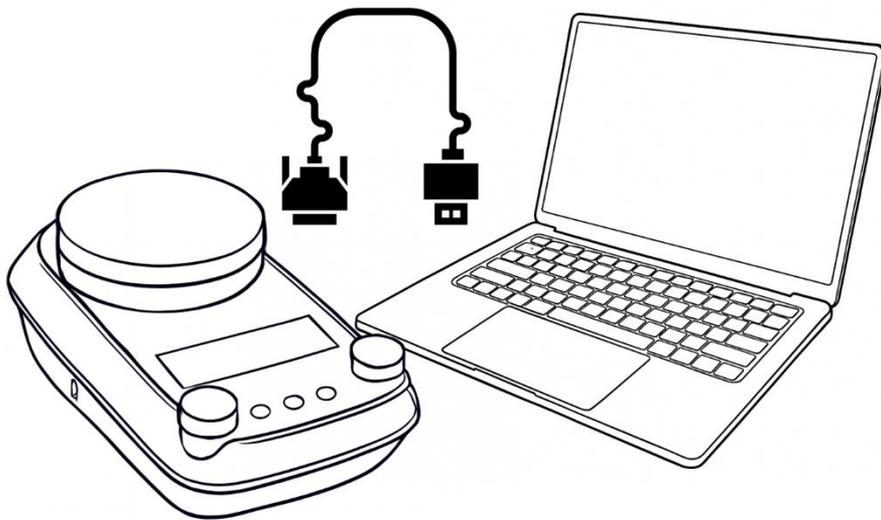




Stirring&Heating <<<<<



Magnetic Stirrers Software V2.0.0 Operating Instructions





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Foreword

Welcome to "LCD Timing Overhead Mixer Instructions". The user should read this manual carefully before using this instrument, operate according to the instruction manual, and understand various precautions.

How to Get Help

If you encounter any problems or need help during installation and use, please contact the after-sales service department of the manufacturer/supplier in a timely manner.

Please prepare the following documents:

- Product serial number (on the instrument nameplate)
- Warranty card
- A description of the problem phenomenon
- The actions and actions you took to resolve the problem
- Your telephone, fax, Email address and other contact information

Quality Assurance

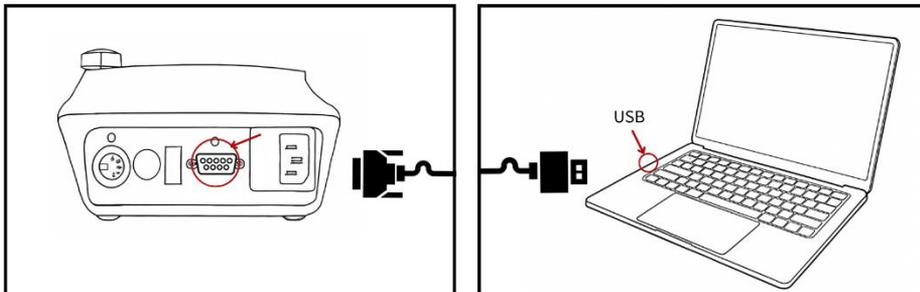
The instrument is guaranteed for 24 months (from the date of purchase) when used under the normal conditions of use and methods of operation as set out in this manual, in accordance with the manufacturer's quality assurance terms. Performance degradation and damage to the instrument due to incorrect installation and operation, private disassembly



and maintenance, and other violations of the operating terms specified in the instruction manual cannot be repaired in accordance with this quality guarantee. Please contact the manufacturer/supplier in case of any problems related to this warranty.

1. Device connection

1.1 Interface the magnetic stirrer (slave device) with the computer (host device) through an RS232 serial cable for communication.



1.2 Power on the magnetic stirrer. Access the "Magnetic Stirrer Software V2.0.0" directory and execute the "Magnetic Stirrers Software" program. Upon launch, the software will automatically recognize the connected model.



BkPic	2025/10/10 16:53
language	2025/10/11 14:16
log	2025/10/11 14:33
Language.dll	2025/10/10 16:48
language	2025/10/11 14:39
libxl.dll	2017/4/21 19:03
Magnetic Stirrers Software	2025/10/10 17:29
mfc100.dll	2010/3/18 9:15
mfc100u.dll	2010/3/18 9:15
msvcp100.dll	2011/6/11 1:58
msvcr100.dll	2010/3/18 9:15
SoftParameter	2025/10/11 14:39

2. Software-Compatible Magnetic Stirrer Models

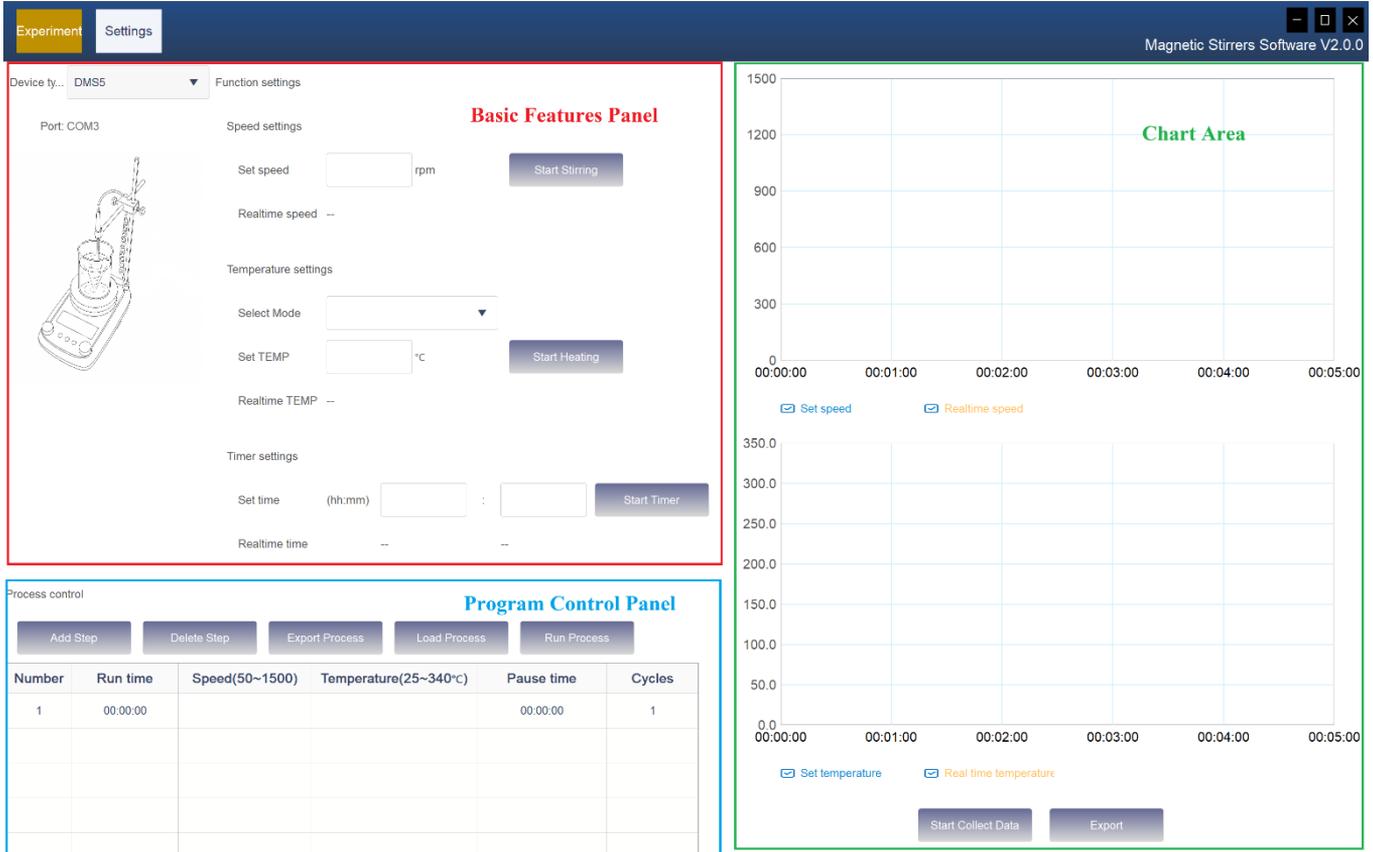
The software is currently compatible with the models below, as follows:

7-inch: SCI7-550HSM, SCI550-Pro, SCI7-550H, SCI-7ST.

5-inch: SCI5-340HST, SCI5-340HSM, SCI340-ProT, SCI340-Pro.

4-inch: SCI4-550H, SCI4-550HS, SCI-4ST

3. Software Features



The screenshot displays the software interface for Magnetic Stirrers V2.0.0. It is divided into three main sections:

- Basic Features Panel (Red border):** Contains settings for speed, temperature, and timer. It includes a dropdown for 'Device ty...' (DMS5), 'Port: COM3', and a 'Function settings' section. The speed settings include 'Set speed' (input field) and 'Start Stirring' button. The temperature settings include 'Select Mode' (dropdown), 'Set TEMP' (input field), and 'Start Heating' button. The timer settings include 'Set time' (hh:mm) and 'Start Timer' button.
- Program Control Panel (Blue border):** Features a 'Process control' section with buttons for 'Add Step', 'Delete Step', 'Export Process', 'Load Process', and 'Run Process'. Below these is a table with columns for 'Number', 'Run time', 'Speed(50~1500)', 'Temperature(25~340°C)', 'Pause time', and 'Cycles'. The first row shows '1', '00:00:00', empty, empty, '00:00:00', and '1'.
- Chart Area (Green border):** Contains two line graphs. The top graph is labeled 'Chart Area' and shows 'Set speed' (blue line) and 'Realtime speed' (orange line). The bottom graph shows 'Set temperature' (blue line) and 'Real time temperature' (orange line). Both graphs have a y-axis from 0.0 to 1500.0 and an x-axis from 00:00:00 to 00:05:00. Below the graphs are 'Start Collect Data' and 'Export' buttons.

3.1 Basic Features Panel

Set parameters such as stirring speed, temperature, and timer on the magnetic stirrer. After configuration, click "Start Stirring," "Start Heating," and "Start Timer" respectively to initiate operation according to the preset settings.



Device ty... **DMS5** Function settings

Port: COM3



Speed settings

Set speed rpm **Start Stirring**

Realtme speed --

Temperature settings

Select Mode

Set TEMP °C **Start Heating**

Realtme TEMP --

Timer settings

Set time (hh:mm) : **Start Timer**

Realtme time --

Temperature Setting - Heating Modes: The available heating modes are A, B, and C. Currently, these modes are only supported on the following models: SCI5-340HST, SCI5-340HSM, SCI340-ProT, SCI340-Pro.

Temperature settings

Select Mode **B standard heating mode** ▼

Set TEMP °C **Start Heating**

Realtme TEMP --

- A rapid heating mode
- B standard heating mode**
- C stable heating mode

3.2 Program Control Panel

The Program Control section enables various functions, including multi-step operation, intermittent operation, and cyclic operation.

- Add Step:



On clicking "Add Step", a new program step is generated. By default, it is set to run continuously (with a pause time of 0) and has a cycle count of 1.

Process control

Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:00:00			00:00:00	1
2	00:00:00			00:00:00	1
3	00:00:00			00:00:00	1

- **Run Process:**

Please enter the parameters for each step, such as time, speed, and temperature.

Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:00:30	200	30	00:00:00	1
2	00:01:00	300	35	00:00:00	1
3	00:01:30	400	40	00:00:00	1

Click "Run Program" to start the process.

Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:00:30	200	30	00:00:00	1
2	00:01:00	300	35	00:00:00	1
3	00:01:30	400	40	00:00:00	1

Upon completion, the process will finish.





Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:00:30	200	30	00:00:00	1
2	00:01:00	300	35	00:00:00	1
3	00:01:30	400	40	00:00:00	1

- **Delete Step:**

To delete a step, select it and click "Delete Step".

- **Export Process:**

Clicking "Export Program" saves the current multi-step program as a proc. file. It is recommended to save it to a specified location for future import and use.

- **Load Process:**

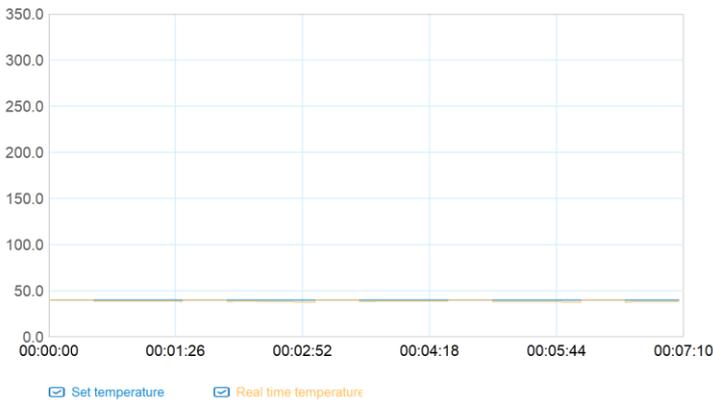
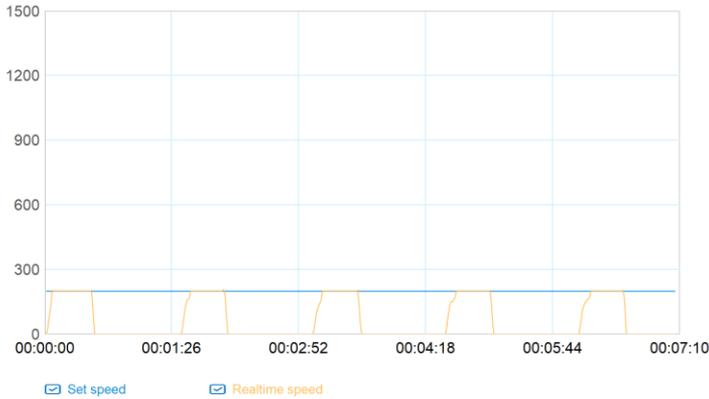
Import a saved proc. file to load the multi-step program into the Process.

- **Intermittent Operation Mode:**

For example, to achieve a cycle of 30 seconds in operation followed by a 5-minute pause, repeated 99 times, configure the settings as follows:



Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:00:30	200	40	00:01:00	99



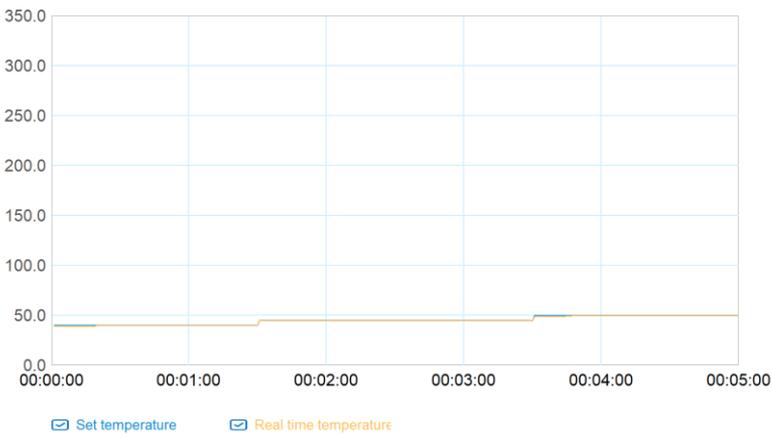
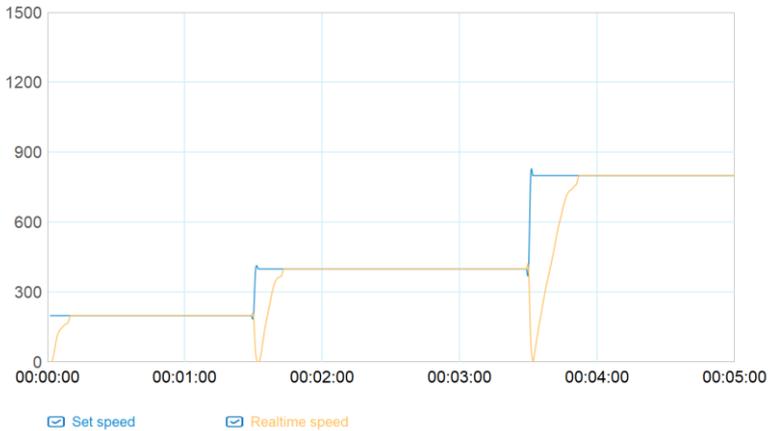
3.3 Chart Area

- Start Collect Data:

Upon program initiation, the graph area will display real-time curves for both setpoints and actual values. Simultaneously, data recording and acquisition commences. Data is logged at a rate of one record per second, with each record containing the timestamp, setpoint, and actual value.



Number	Run time	Speed(50~1500)	Temperature(25~340°C)	Pause time	Cycles
1	00:01:30	200	40	00:00:00	1
2	00:02:00	400	45	00:00:00	1
3	00:01:30	800	50	00:00:00	1



- Export Data:

Upon completion of the operation, click "Export" to save the data in CSV. format.



Example of saved data format:

	A	B	C	D	E	F	G
1	Date	Time	Set speed	Realtime speed	Set temperature	Realtime temperature	
2	2025/10/28	14:49:55	200	0	40	38.8	
3	2025/10/28	14:49:56	200	5	40	38.8	
4	2025/10/28	14:49:57	200	45	40	38.8	
5	2025/10/28	14:49:58	200	100	40	38.8	
6	2025/10/28	14:49:59	200	130	40	38.8	
7	2025/10/28	14:50:00	200	145	40	38.8	
8	2025/10/28	14:50:01	200	155	40	38.8	
9	2025/10/28	14:50:02	200	165	40	38.8	
10	2025/10/28	14:50:03	200	170	40	38.8	
11	2025/10/28	14:50:04	200	199	40	38.8	
12	2025/10/28	14:50:05	200	200	40	38.9	
13	2025/10/28	14:50:06	200	200	40	38.9	
14	2025/10/28	14:50:07	200	200	40	38.9	
15	2025/10/28	14:50:08	200	200	40	38.9	
16	2025/10/28	14:50:09	200	200	40	38.9	
17	2025/10/28	14:50:10	200	200	40	38.9	
18	2025/10/28	14:50:11	200	200	40	39	
19	2025/10/28	14:50:12	200	200	40	39	
20	2025/10/28	14:50:13	200	200	40	39	
21	2025/10/28	14:50:14	200	200	40	40	
22	2025/10/28	14:50:15	200	200	40	40	
23	2025/10/28	14:50:16	200	200	40	40	
24	2025/10/28	14:50:17	200	200	40	40	
25	2025/10/28	14:50:18	200	200	40	40	
26	2025/10/28	14:50:19	200	200	40	40	
27	2025/10/28	14:50:20	200	200	40	40	
28	2025/10/28	14:50:22	200	200	40	40	
29	2025/10/28	14:50:23	200	200	40	40	
30	2025/10/28	14:50:24	200	200	40	40	
31	2025/10/28	14:50:25	200	200	40	40	
32	2025/10/28	14:50:35	200	200	40	40	
33	2025/10/28	14:50:35	200	200	40	40	
34	2025/10/28	14:50:36	200	200	40	40	