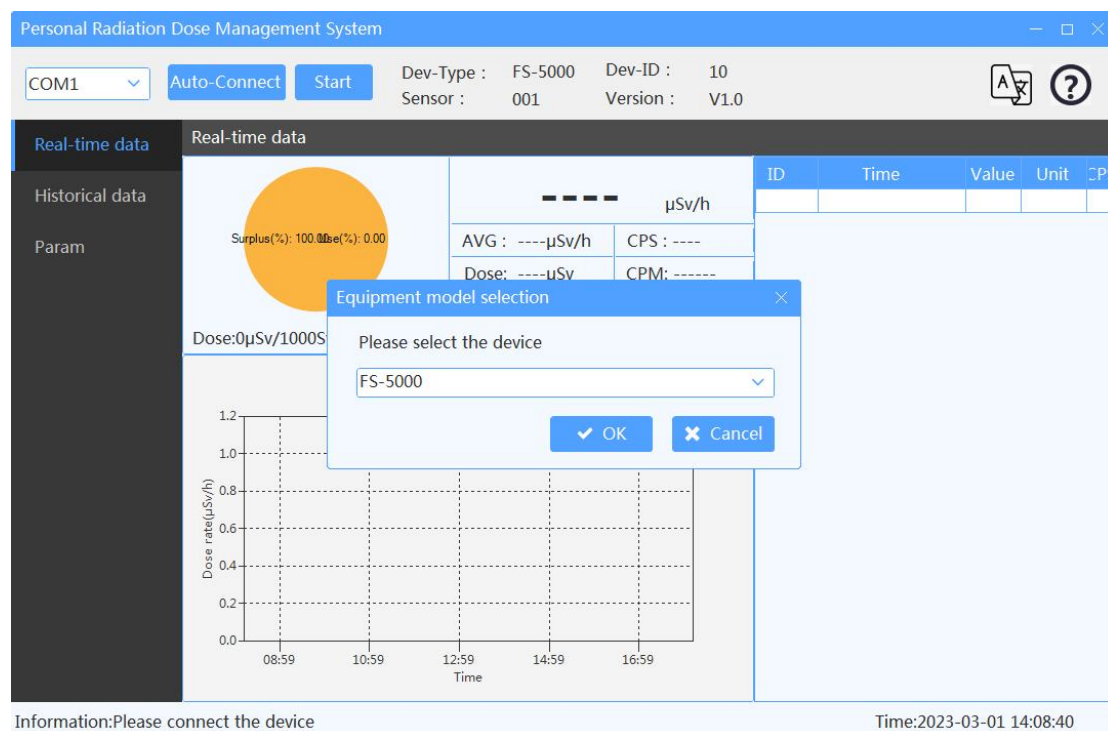# Personal Radiation Dose Management System
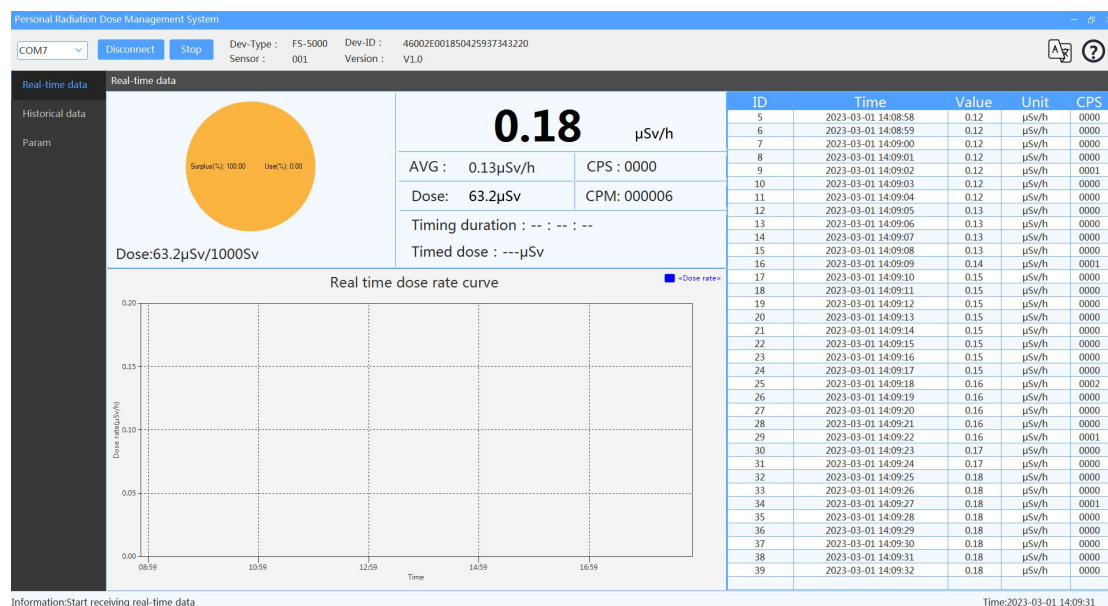
User Manual

Henan Bosean Electronic Technology Co.,Ltd.

2023-02

1.Real-time data display

1.1 First click the "Auto Connect" button and wait for the software to connect the device. After successful connection, as shown in the figure below.


1.2 After the device is connected successfully, the basic information will be displayed and the device data can be received in real time;

1.3 Click "Stop Refresh" to pause the refresh of real-time data, and click "Start Refresh" again to refresh the data again;
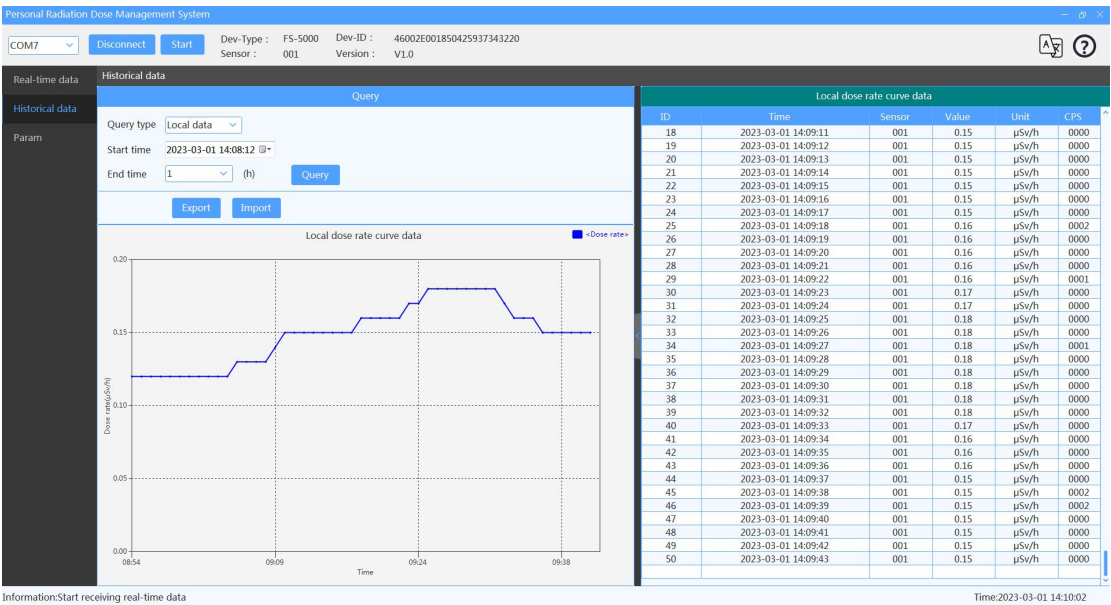
Note: During the operation of real-time data, the system encounters a standby situation, and after recovery, the data may display abnormalities. Just start refreshing the data again.

2.Historical data display
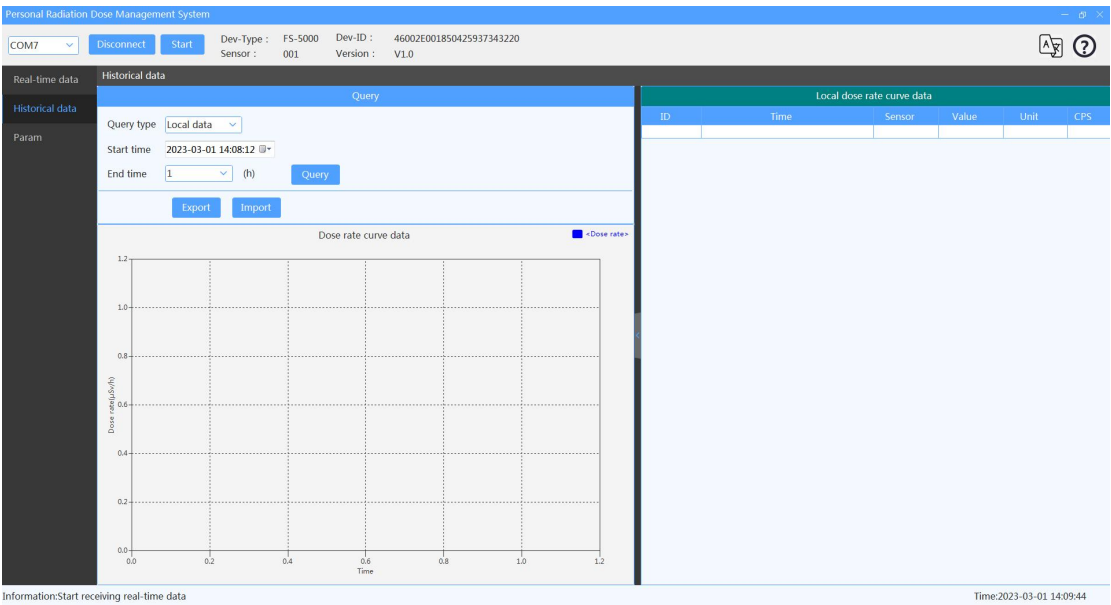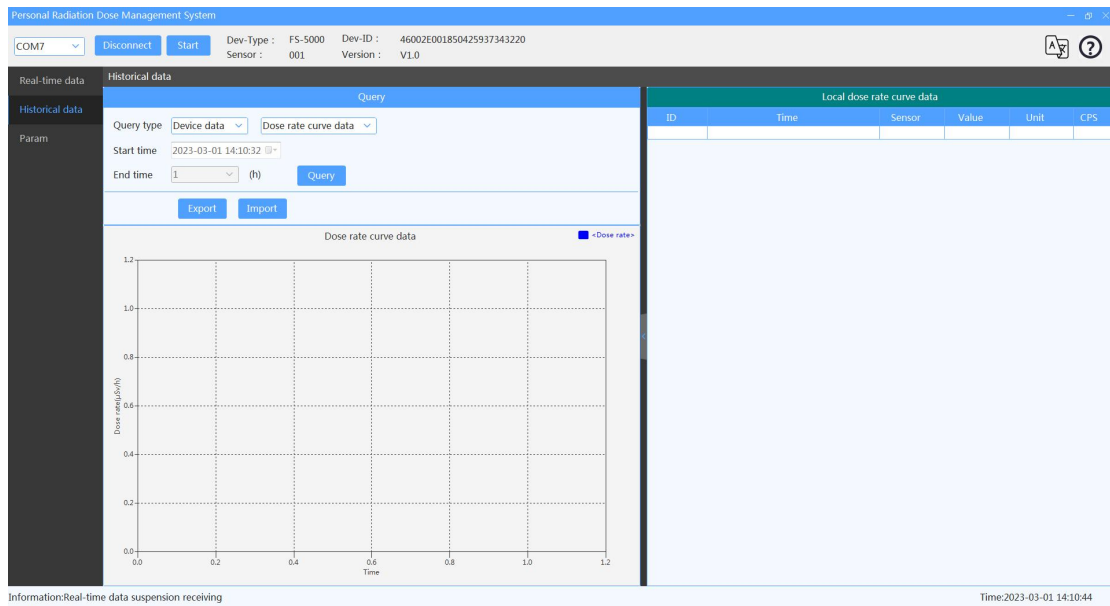

2.1 Query local data

Select the start time and the end time, and click the "Query" button to query the data within the selected time period.

2.2 Query equipment data

In the query type selection box, select "Equipment data" to display the secondary selection box, where you can query the equipment dose rate curve data, equipment dose curve data, and equipment alarm data.

2.2.1 Query equipment dose rate data

Select the equipment data, select the dose rate curve data, and click the "Query" button. Because the data volume may be large, please wait for the query to complete.
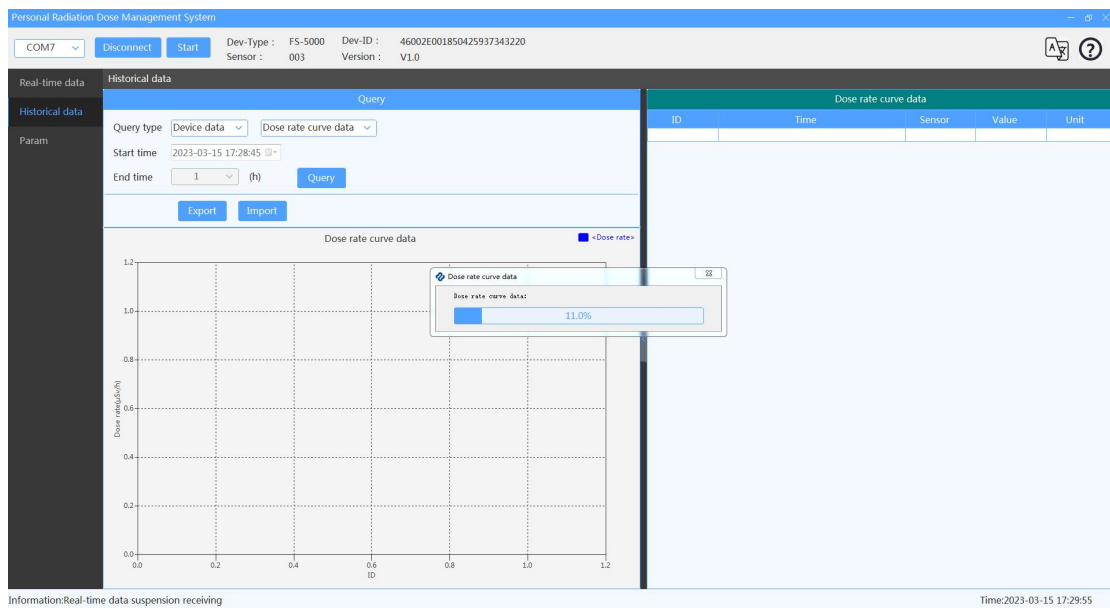
After the query, as shown in the following figure:

2.2.2 Query equipment dose data

Select the equipment data, select the dose curve data, and click the "Query" button. Because the amount of data may be large, please wait for the query to complete, as shown in the figure below.
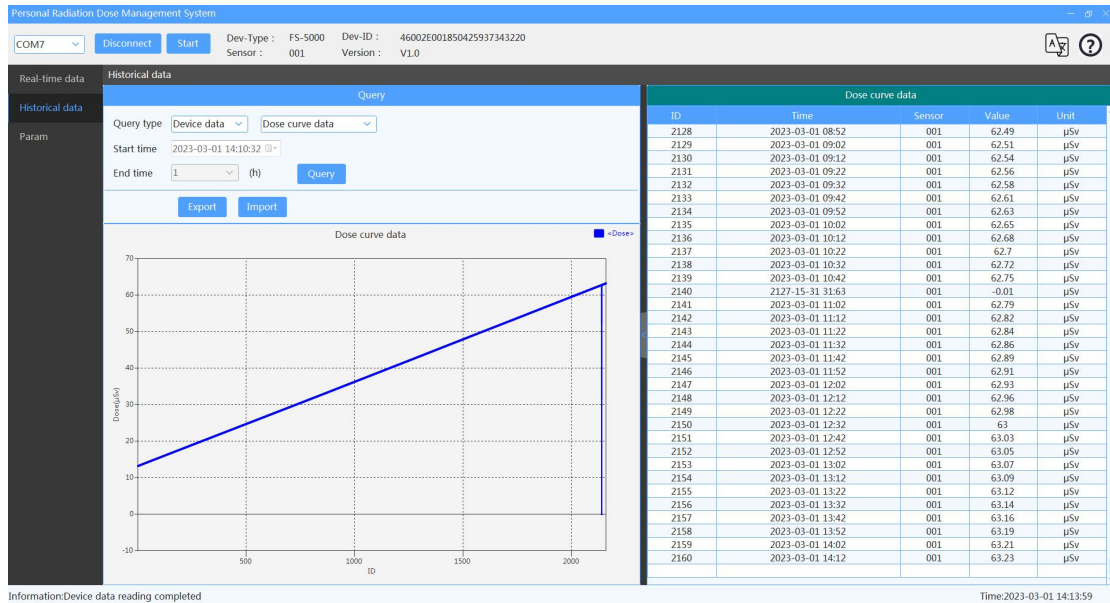
2.2.3 Query equipment alarm data

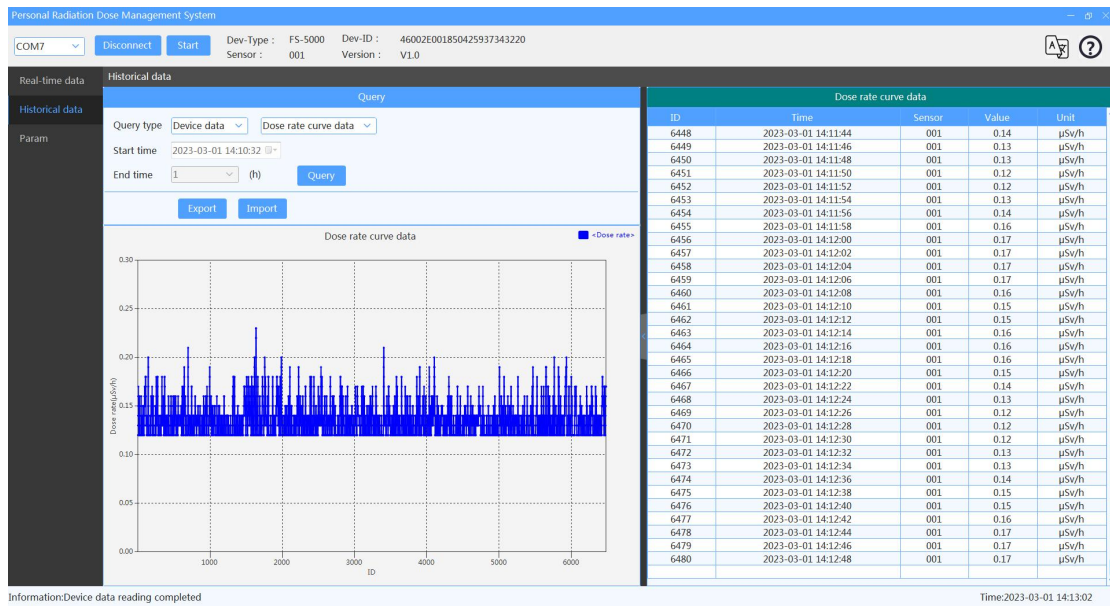Select the equipment data, select the alarm record data, and click the "Query" button. Because the data volume may be large, please wait for the query to complete, as shown in the figure below.
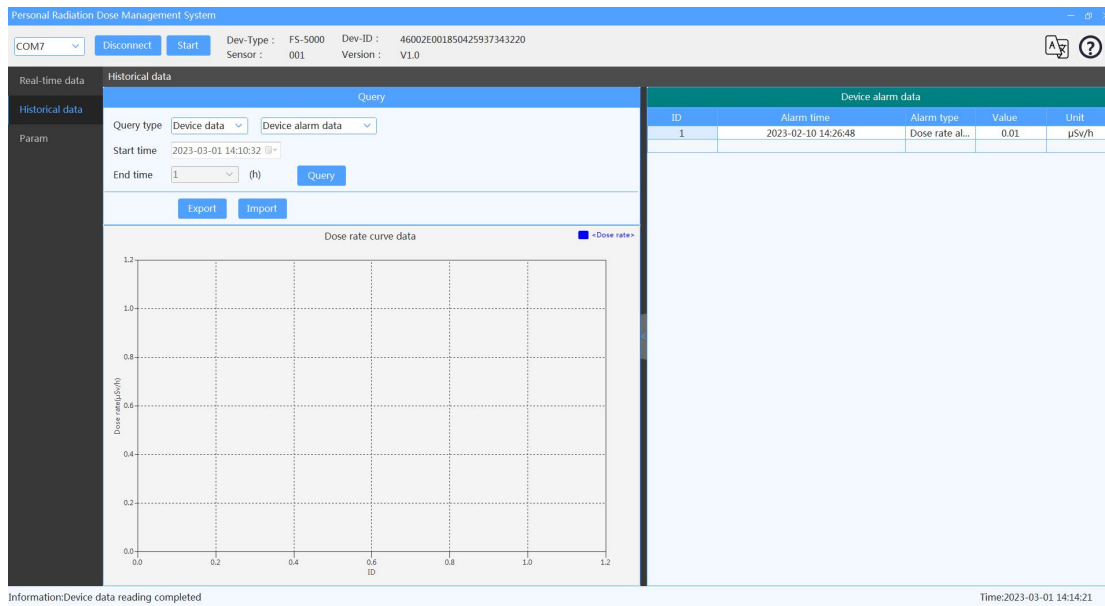
2.2.4 Data export

Take local data as an example. After querying the data, you can click the "Export" button to export the data.
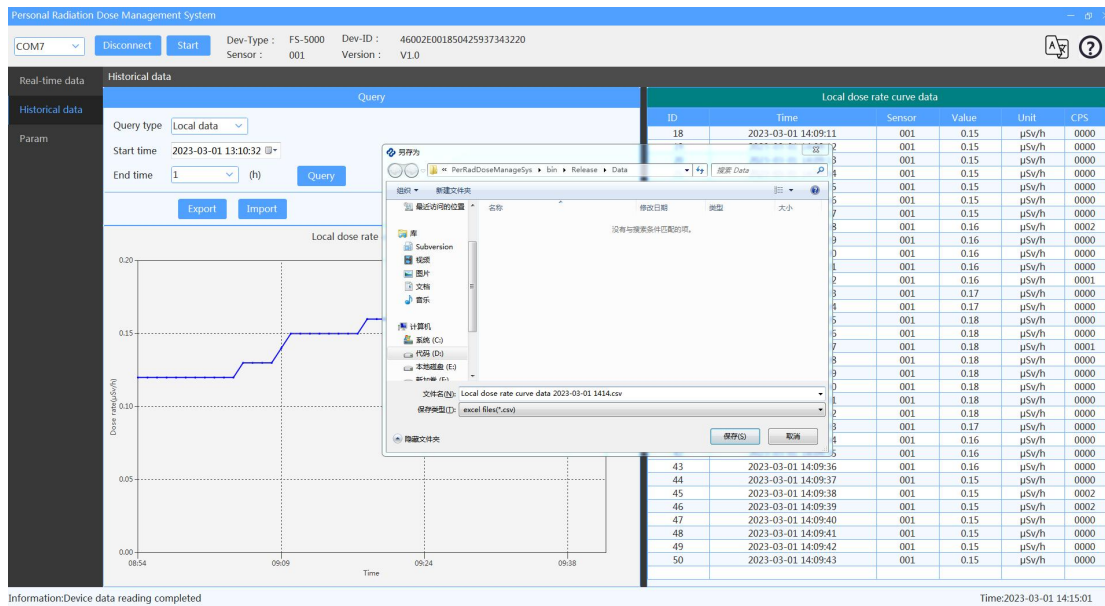
2.2.5 Data import

Import the data exported by the software into the software again. As shown in the figure below, click the "Import" button, select the file, and import it into the software.

Screenshot 1 — Personal Radiation Dose Management System

- COM7 | Disconnect | Start
- Dev-Type: FS-5000 Dev-ID: 46002E001850425937343220
- Sensor: 001 Version: V1.0
- Real-time data | Historical data | Param
- Historical data
- Query
  - Query type: Local data
  - Start time: 2023-03-01 14:15:23
  - End time: 1 (h) Query
  - Export | Import
- Dose rate cur...
- Local dose rate curve data
  - ID | Time | Sensor | Value | Unit | CPS

Open excel file — « PerRadDoseManageSys ▸ bin ▸ Release ▸ Data

名称 | 修改日期 | 类型 | 大小
Local dose rate curve data 2023-03-... | 2023/3/1 14:15 | XLS 工作表 | 3 KB

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计算机 / 系统 (C:)

文件名(N): Local dose rate curve data 2023-03-01 1414.csv | csv(*.csv)
打开(O) | 取消

Information:Start receiving real-time data   Time:2023-03-01 14:15:42

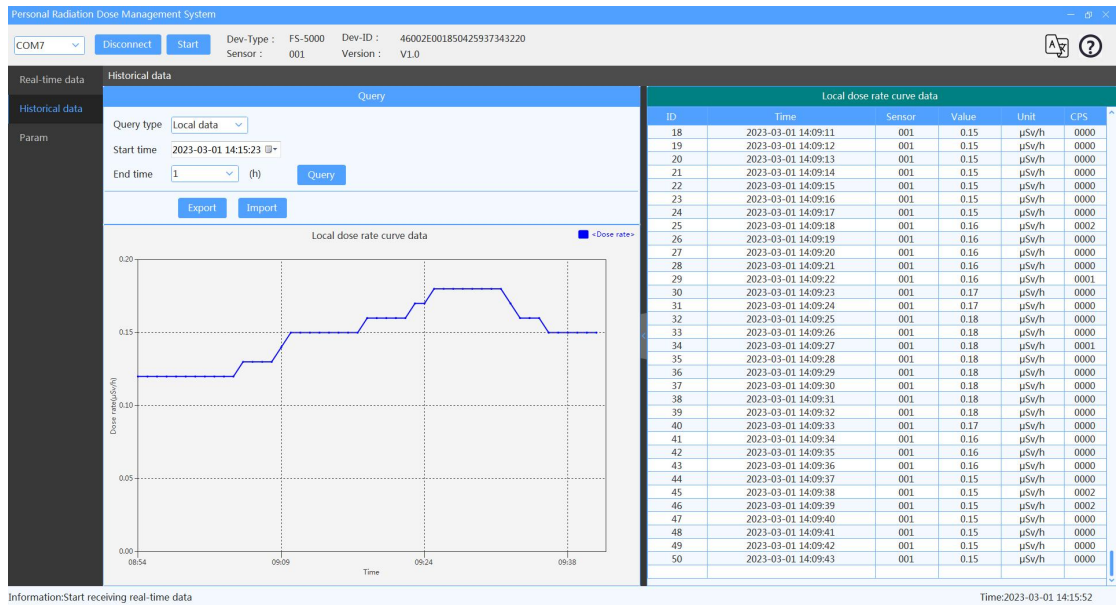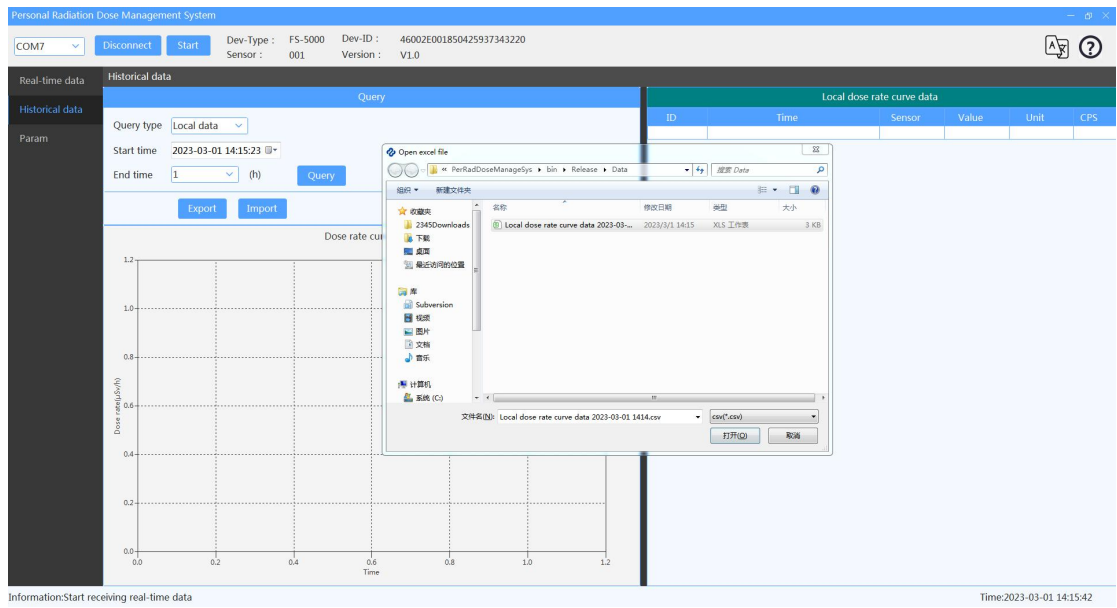**Screenshot 2 — Personal Radiation Dose Management System**

- COM7 | Disconnect | Start
- Dev-Type: FS-5000 Dev-ID: 46002E001850425937343220
- Sensor: 001 Version: V1.0
- Real-time data | Historical data | Param
- Historical data
- Query
  - Query type: Local data
  - Start time: 2023-03-01 14:15:23
  - End time: 1 (h) Query
  - Export | Import
- Local dose rate curve data — <Dose rate>

ID	Time	Sensor	Value	Unit	CPS
18	2023-03-01 14:09:11	001	0.15	µSv/h	0000
19	2023-03-01 14:09:12	001	0.15	µSv/h	0000
20	2023-03-01 14:09:13	001	0.15	µSv/h	0000
21	2023-03-01 14:09:14	001	0.15	µSv/h	0000
22	2023-03-01 14:09:15	001	0.15	µSv/h	0000
23	2023-03-01 14:09:16	001	0.15	µSv/h	0000
24	2023-03-01 14:09:17	001	0.15	µSv/h	0000
25	2023-03-01 14:09:18	001	0.16	µSv/h	0002
26	2023-03-01 14:09:19	001	0.16	µSv/h	0000
27	2023-03-01 14:09:20	001	0.16	µSv/h	0000
28	2023-03-01 14:09:21	001	0.16	µSv/h	0000
29	2023-03-01 14:09:22	001	0.16	µSv/h	0001
30	2023-03-01 14:09:23	001	0.17	µSv/h	0000
31	2023-03-01 14:09:24	001	0.17	µSv/h	0000
32	2023-03-01 14:09:25	001	0.18	µSv/h	0000
33	2023-03-01 14:09:26	001	0.18	µSv/h	0000
34	2023-03-01 14:09:27	001	0.18	µSv/h	0001
35	2023-03-01 14:09:28	001	0.18	µSv/h	0000
36	2023-03-01 14:09:29	001	0.18	µSv/h	0000
37	2023-03-01 14:09:30	001	0.18	µSv/h	0000
38	2023-03-01 14:09:31	001	0.18	µSv/h	0000
39	2023-03-01 14:09:32	001	0.18	µSv/h	0000
40	2023-03-01 14:09:33	001	0.17	µSv/h	0000
41	2023-03-01 14:09:34	001	0.16	µSv/h	0000
42	2023-03-01 14:09:35	001	0.16	µSv/h	0000
43	2023-03-01 14:09:36	001	0.16	µSv/h	0000
44	2023-03-01 14:09:37	001	0.15	µSv/h	0000
45	2023-03-01 14:09:38	001	0.15	µSv/h	0002
46	2023-03-01 14:09:39	001	0.15	µSv/h	0002
47	2023-03-01 14:09:40	001	0.15	µSv/h	0000
48	2023-03-01 14:09:41	001	0.15	µSv/h	0000
49	2023-03-01 14:09:42	001	0.15	µSv/h	0000
50	2023-03-01 14:09:43	001	0.15	µSv/h	0000

Information:Start receiving real-time data   Time:2023-03-01 14:15:52

3.Equipment parameter setting

3.1 Threshold setting

Set the total dose, dose rate threshold, dose threshold and other equipment parameters.

3.2 Alarm setting

Set the ON/OFF status of equipment alarm light, alarm sound, vibration alarm, particle sound, etc.

3.3 Data management

Clear equipment cumulative dose, dose rate curve data, dose curve data, alarm records and other data. And restore factory settings.

3.4 Timed dose duration setting

Set the timing dose switch and timing duration.

3.5 LCD backlight setting

The setting of backlight intensity and backlight duration.

3.6 Other settings

For the setting of operation mode, interface style, calibration coefficient and equipment time, you can also read back the equipment parameters.

Note: Click "Read back device parameters" to check whether the setting parameter information is correct.

4.Other operations

4.1 Language switching

In the interface, the button is the language switch button. Select the corresponding language, and the interface language type will be automatically switched.

4.2 Help documents

In the interface, the button is help documents and related functions.

Select the model selection and load the interface display of the corresponding model.

Select the help document to open the user manual automatically.

Select the About function to open the About interface. As shown below.