

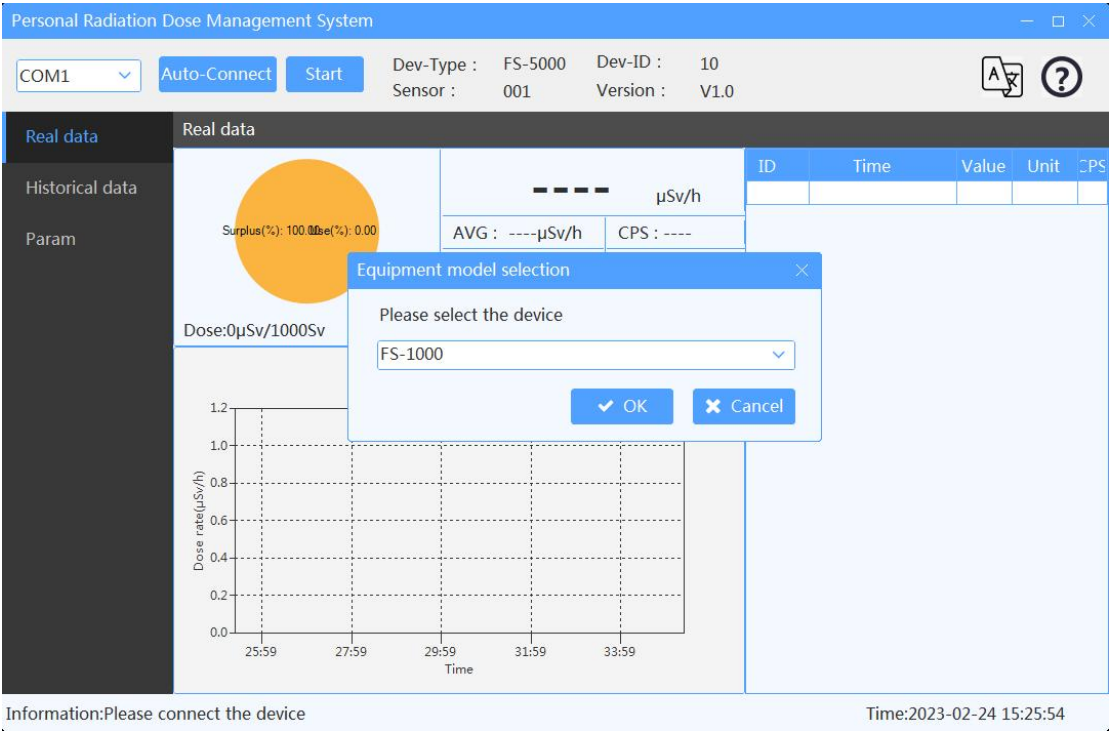
Personal Radiation Dose Management System User Manual

Henan Bosean Electronic Technology Co., Ltd.

2023-02

1. Automatic device identification

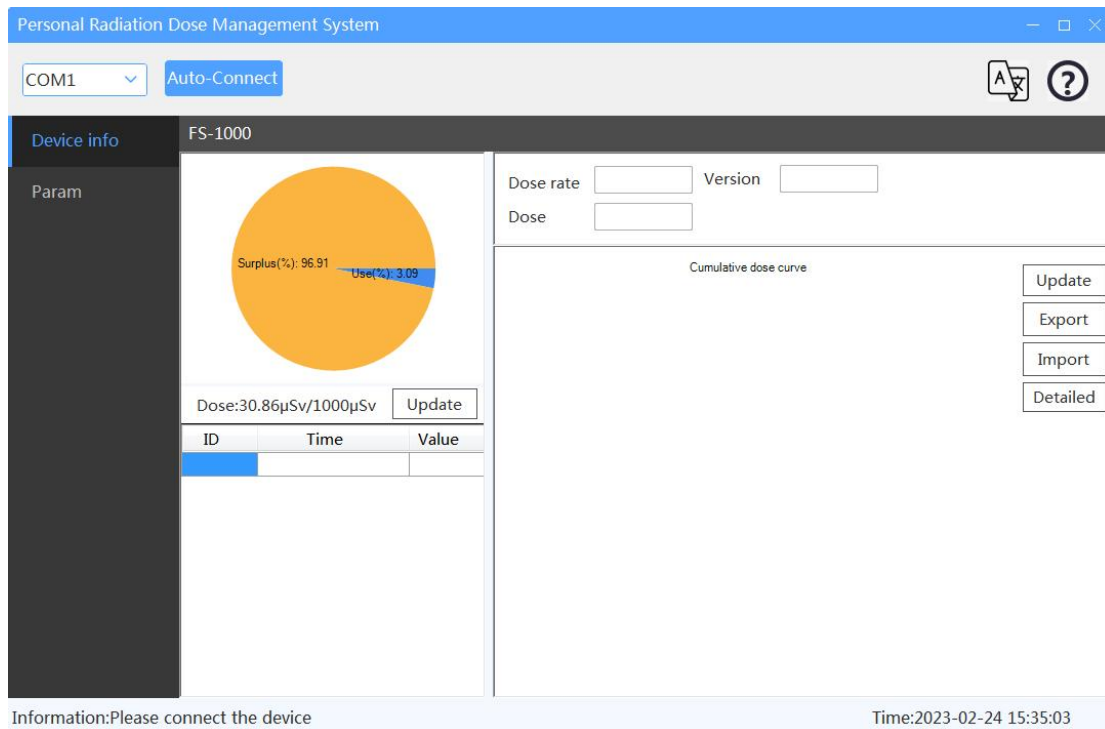
First select the device model FS-1000



Click the Update button to read the number of COM; Click the Auto-Connect button to connect the device automatically.

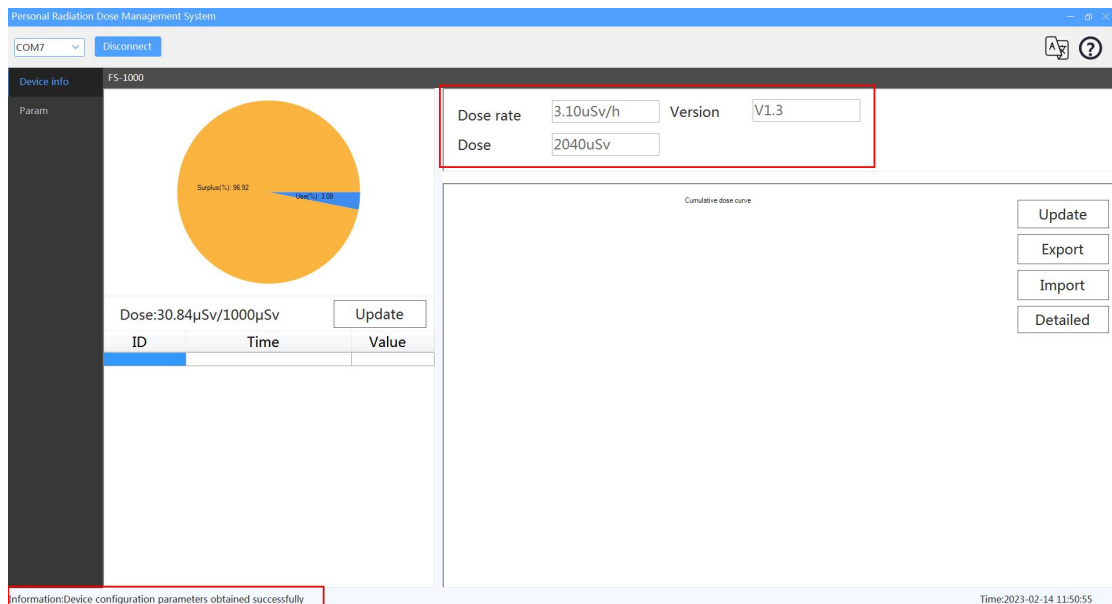
1.1 Update Connection

Click the "Auto-Connect" button, then the COM number will appear in the device connection.



1.2 Automatic Identification

Click the "Auto-Connect" button, the device will be connected automatically and show the corresponding prompt.



2. Parameter setting

This function is mainly to set equipment parameters, including equipment time calibration, setting calibration coefficients, setting dose rate thresholds, setting dose

thresholds, obtaining equipment configuration parameters, switching between Chinese and English, etc.

Click the "Param" menu, parameter configuration option, open the configuration interface.

The screenshot shows the 'Personal Radiation Dose Management System' window. At the top, there is a header bar with the title and window controls. Below the header, there is a toolbar with a dropdown menu showing 'COM7', a 'Disconnect' button, and icons for help and language. The main area is divided into two panels: 'Device info' and 'Param'. The 'Param' panel is active, showing a configuration table with four rows: 'Coefficient(%)' with a value of 100, 'Dose rate' with a value of 3.10 and unit 'uSv/h', 'Dose' with a value of 2040 and unit 'uSv', and 'Dose total(μSv)' with a value of 1000. Each row has a 'Set' button to its right. Below the table, there are two buttons: 'Update device info' and 'Update device time'. At the bottom of the window, there is a status bar with the text 'Information:Please connect the device' on the left and 'Time:2023-02-24 15:35:31' on the right.

Param		
Coefficient(%)	100	Set
Dose rate	3.10 uSv/h	Set
Dose	2040 uSv	Set
Dose total(μSv)	1000	Set

Update device info

Update device time

Information:Please connect the device

Time:2023-02-24 15:35:31

2.1Time Calibration

Click the "Update device time" button to set the system time of the device and update the time to the computer system time.

Personal Radiation Dose Management System

COM7 Disconnect

Device info Param

Param

Coefficient(%) 100 Set

Dose rate 3.10 uSv/h Set

Dose 2040 uSv Set

Dose total(μSv) 1000 Set

Update device info

Update device time

Information:Time calibration successful

Time:2023-02-24 15:35:49

2.2Set the calibration factor

The coefficient setting needs to contact the after-sales personnel,Set after confirmation.

Personal Radiation Dose Management System

COM7 Disconnect

Device info Param

Param

Coefficient(%) 100 Set

Dose rate 3.10 uSv/h Set

Dose 2040 uSv Set

Dose total(μSv) 1000 Set

Update device info

Update device time

Information:Coefficient calibration successful

Time:2023-02-24 15:36:00

2.3 Set dose rate threshold

Fill in the dose rate threshold, which must be 4 digits, including the decimal point, and select the unit, then click the "Set dose rate threshold" button

The screenshot shows the 'Personal Radiation Dose Management System' window. At the top, there is a dropdown menu set to 'COM7' and a 'Disconnect' button. Below this is a sidebar with 'Device info' and 'Param' tabs. The 'Param' tab is active, displaying a table of parameters. The 'Dose rate' row is highlighted with a red box, showing a value of '3.10' and a unit of 'uSv/h'. Below the table are buttons for 'Update device info' and 'Update device time'. At the bottom of the window, a status bar shows the message 'Information:Successfully configured dose rate threshold data' and the time 'Time:2023-02-24 15:36:13'.

Param		
Coefficient(%)	100	Set
Dose rate	3.10 uSv/h	Set
Dose	2040 uSv	Set
Dose total(μSv)	1000	Set

Update device info

Update device time

Information:Successfully configured dose rate threshold data

Time:2023-02-24 15:36:13

2.4 Set the Threshold Dose(TD)

Fill in the dose threshold, which must be 4 digits, including the decimal point, and select the unit, then click the "Set dose threshold" button

Personal Radiation Dose Management System

COM7 Disconnect

Device info Param

Param

Coefficient(%)	100		Set
Dose rate	3.10	uSv/h	Set
Dose	2040	uSv	Set
Dose total(μSv)	1000		Set

Update device info

Update device time

Information:Successfully configured dose threshold data

Time:2023-02-24 15:36:26

2.5Get Configuration Parameters

Click the "Update Device Info" button to obtain device parameter information

Personal Radiation Dose Management System

COM7 Disconnect

Device info Param

Param

Coefficient(%)	100		Set
Dose rate	3.10	uSv/h	Set
Dose	2040	uSv	Set
Dose total(μSv)	1000		Set

Update device info

Update device time

Information:Device configuration parameters obtained successfully

Time:2023-02-24 15:39:58

2.6 Set Doses

Set the total dose value, which is used to count the cumulative dose percentage.

Personal Radiation Dose Management System

COM7 Disconnect

Device info Param

Param

Coefficient(%) 100 Set

Dose rate 3.10 uSv/h Set

Dose 2040 uSv Set

Dose total(μSv) 1000 Set

Update device info

Update device time

Information:Total dose set successfully

Time:2023-02-24 15:40:14

2.7 Switch between Chinese and English

Click "Language" button and select language to switch. Currently, only Chinese and English is supported.

Personal Radiation Dose Management System

COM7 Disconnect

Device info FS-1000

Param

Dose rate 3.10uSv/h Version V1.3

Dose 2040uSv

Surplus(%) 96.92 Value(%) 3.08

Dose:30.84μSv/1000μSv Update

ID Time Value

Cumulative dose curve

Update

Export

Import

Detailed

Information:Total dose set successfully

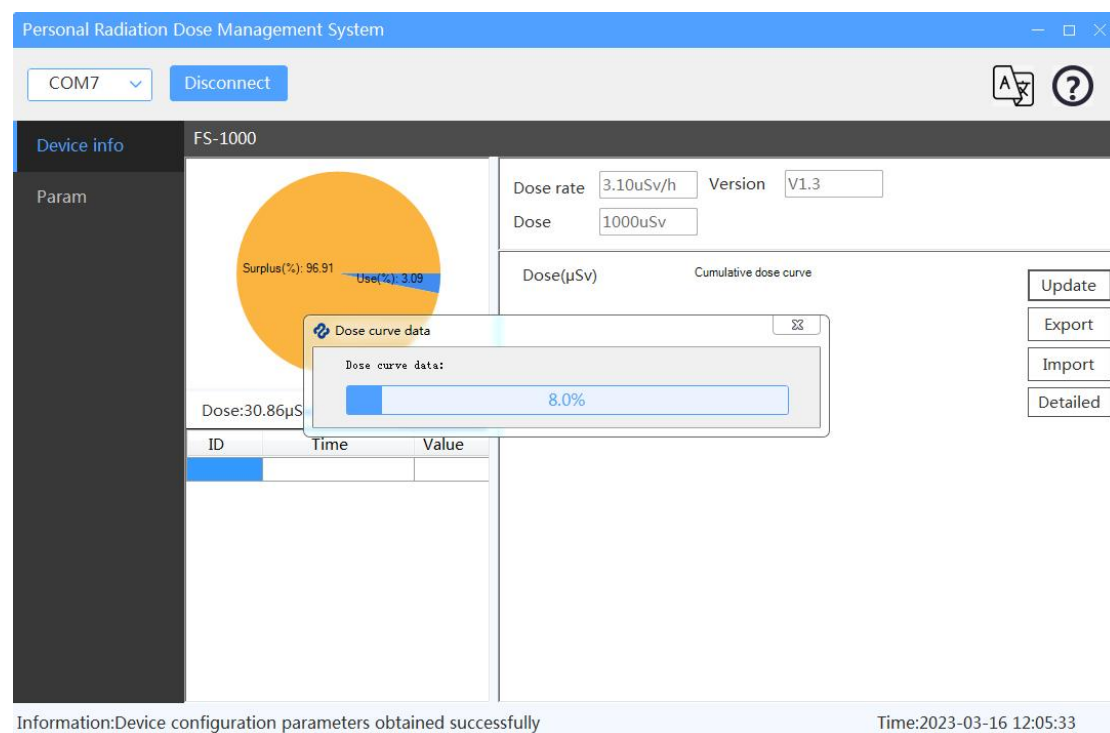
Time:2023-02-14 11:57:19

3.historical data reorganization

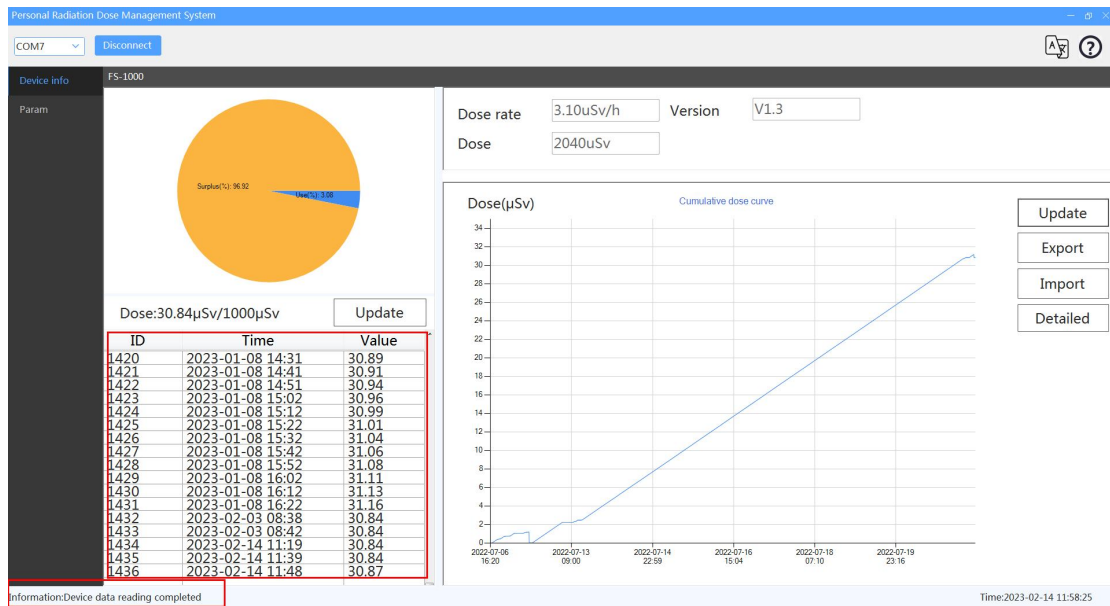
This module mainly deals with historical data processing, including historical data query, historical data curve display, cumulative dose rate data display, data import and export, etc.

3.1 Historical data query

Click the "Update" button to read the historical data of the device. Due to the large amount of data, it will take a while to read.

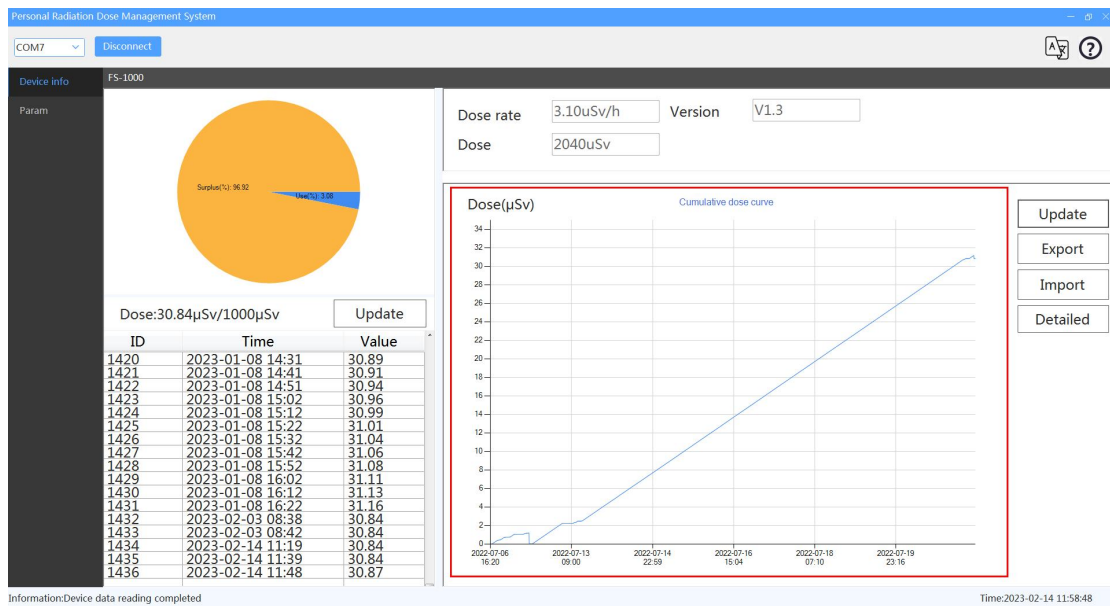


After the data reading is completed, the following form data will be displayed.

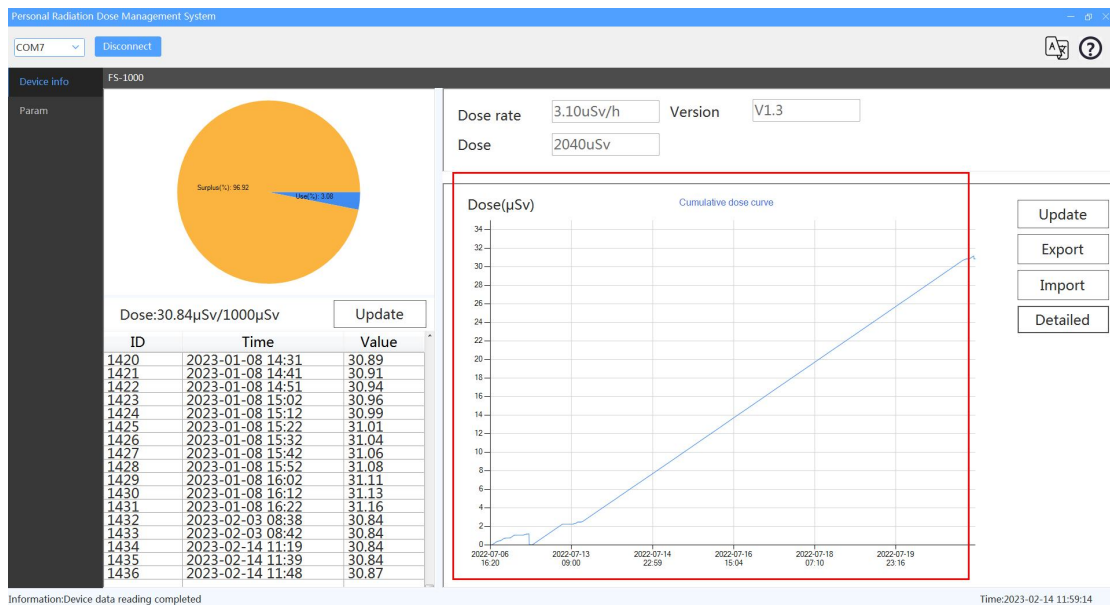
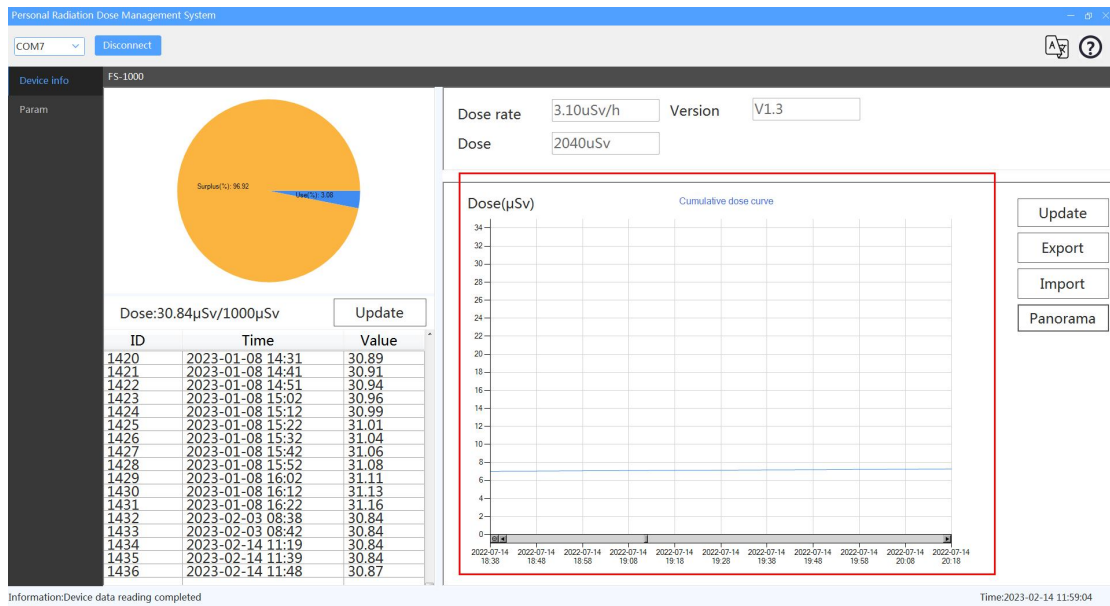


3.2 Historical data curve display

After reading the data,it will be shown as below.

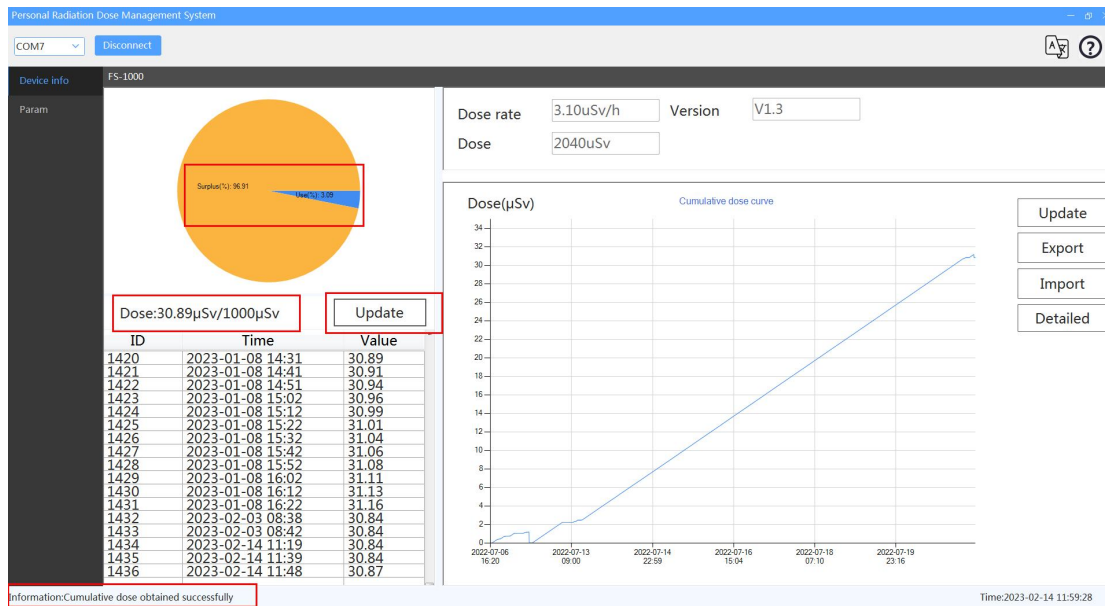


Click detailed or panoramic switch curve display.



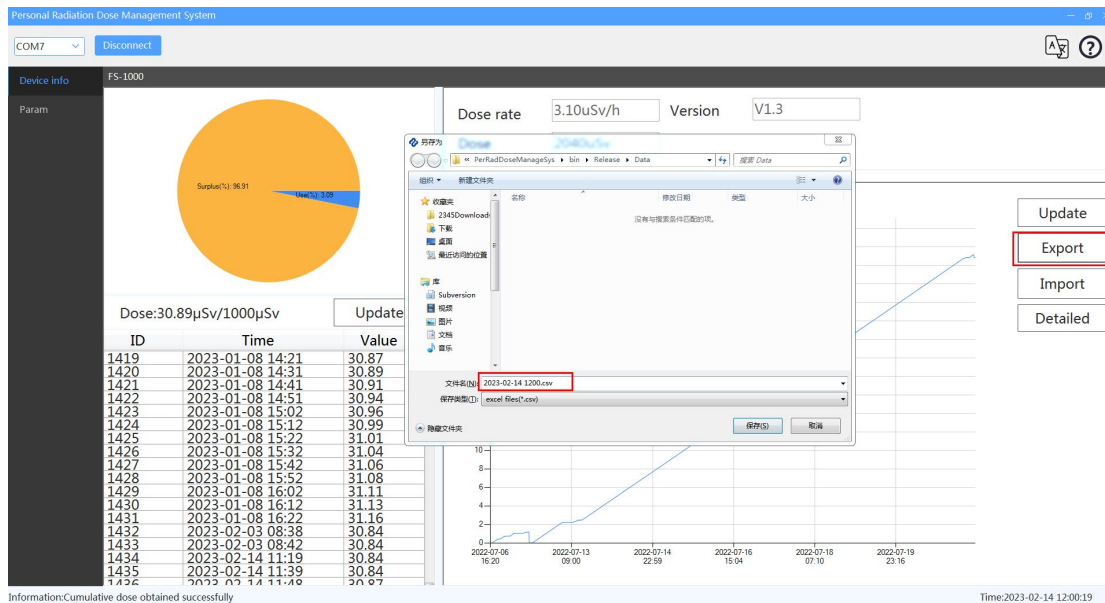
3.3 Cumulative dose rate data display

Click the "Update" button to update the cumulative dose rate data and display it in a pie chart.

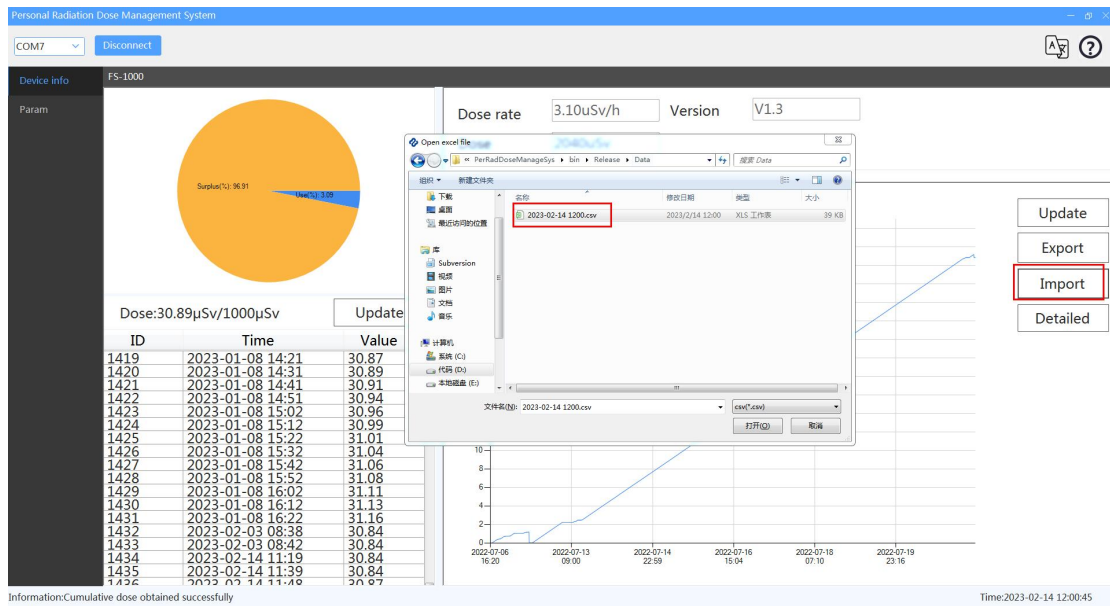


3.4 Data import and export

Click the "Export" button, select the directory in the pop-up box, and define the file name.




You can re-import the exported Excel file data to display in the software.



4. Other operations

4.1 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.

