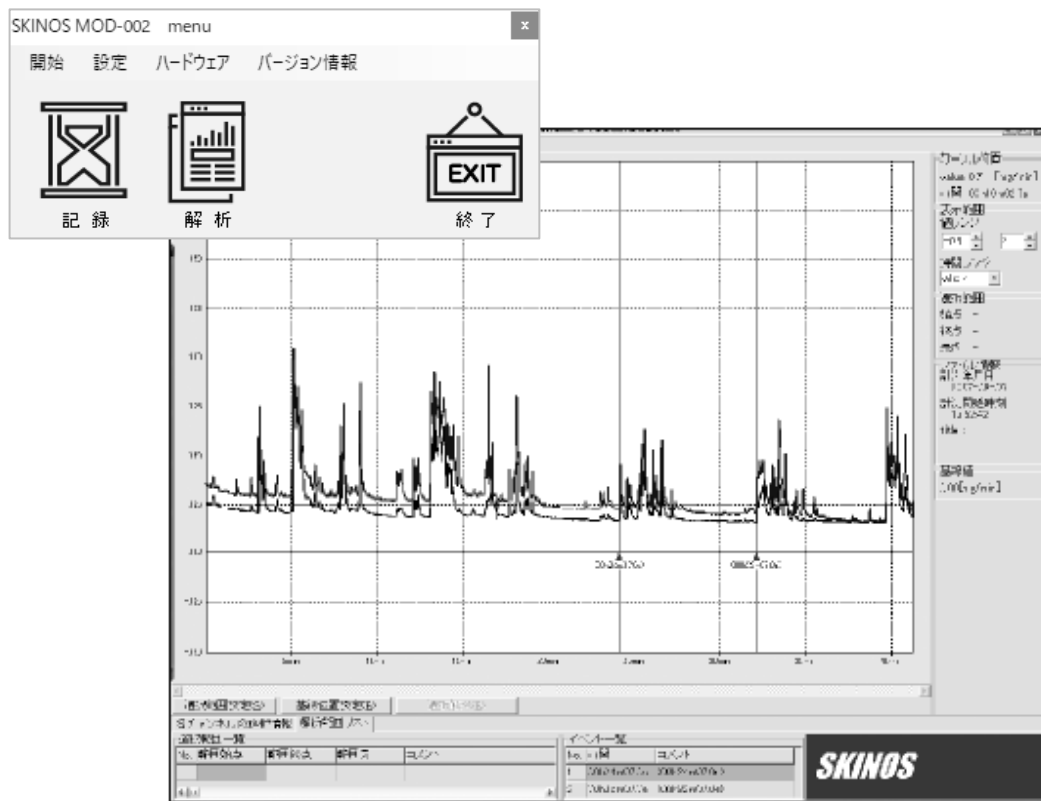


Recording and analysis software

MOD-002 Version1.1

Operating instructions



SKINOS

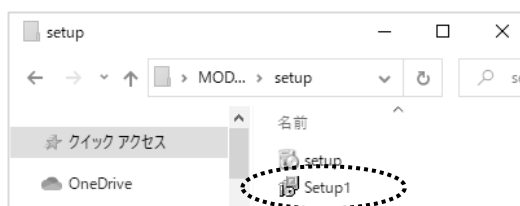
I. Installation and Operation

SKN-2000 is provided with the function of digital output. You can record and analyze with this software by only directly connecting the unit to PC.

■ Installation

Please install the software according to the following procedures.

- 1. Insert the CD into your computer and start Setup1.exe in the ¥MOD-002-xx ¥setup folder.**



- 2. Follow the instructions on the screen to proceed with the installation and complete.**

*** The default installation folder is "C: ¥MOD-002 ¥". The software may not work normally if you set to install in other folders**



■ Start up and default screen

Start biometric software MOD-002 from the desktop icon or from "Start Menu"→ "SKINOS MOD-002".



[Menu Screen]

The following menu screen will be shown when the software is started. You can start data recording and data analysis from this menu screen.



[Operation on the Menu Screen]

Below is a table summarizing the functions and settings you might want to use and the operations on the menu screen.

Function/Setting	Operation	Details of Function/Setting
Record data	<ol style="list-style-type: none">1. Click the “Measure” icon.2. Menu “start” → Select “start recording”	See “II. Measurement” for details.
Data analysis	<ol style="list-style-type: none">1. Click the “Analysis” icon.2. Menu “start” → Select “start analysis”	See “III. Analysis” for details.
Change language	Menu “Setting” → Select “Color/Language”	On the “Basic setting screen”, select the language and click “OK”.
Change graph color	Menu “Setting” → Select “Color/Language”	On the “Basic setting screen”, set the color of the channels in “Color setting” and click “OK”.
Reset language & graph color (reset setting when it's not running well)	Select “Setting” on the menu → Select “Reset”	Reset after the confirmation screen is display
Check hardware connection	Select “Hardware” on the menu → Select “Check connection port”	See “■ Device Connection” for details.
Check the version	Select “Version information” on the menu.	The software version is shown.
End	Click the “Exit” icon	

■ Device Connection

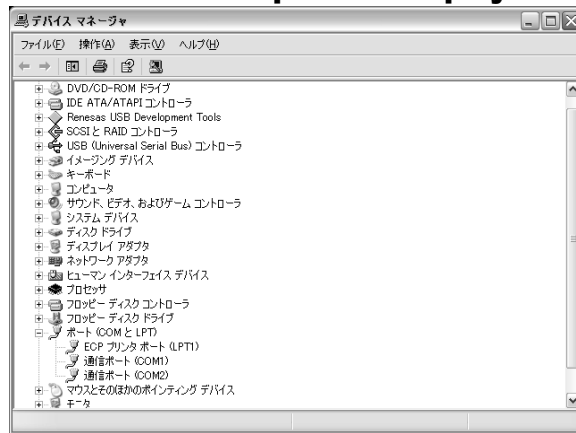
[Hardware Drive]

In addition to the installation of this software, a device driver should also be installed for connecting a device to the USB port of a computer for data recording. Please refer to the operation manual of the device and install the drive accordingly.

Menu “Hardware” → You can install a general USB drive from “Install drive”.

[Check & Set Connection Port]

menu "Hardware" → Select “Check connection port” to display the device manager.



Check and set the port according to the following procedures for connecting a device to the USB port of the computer.

- 1. Turn on the connection device.**
- 2. Display device manager and connect the device to the USB port.**
- 3. A new COM port will be created on the ports (COM and LPT) when the hardware driver is installed normally.**

*** Install the hardware driver when no COM port is created.**

- 4. Check the newly created COM port number. Close the device manager if the number is anything from COM1 to COM4.**
- 5. If the COM port number is not anything from COM1 to COM4, change the COM port number. Please find the procedures below.**

(1) Double click the newly created COM port.


(2) Select the tab “Port setting” of “Property”, click “Detailed setting”.

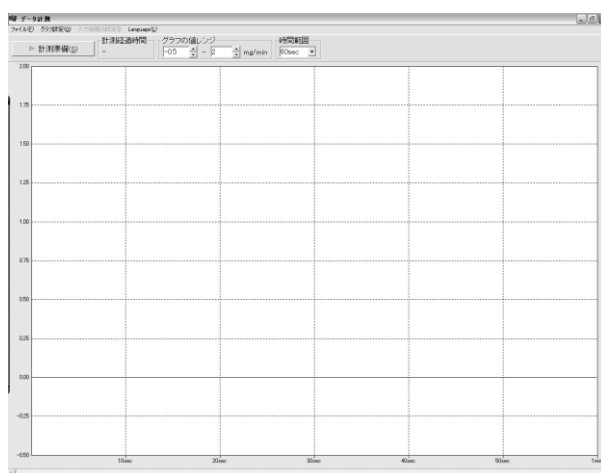
(3) Pull down the COM port number and select anything between COM1 to COM4, click “OK”, and close setting. (*To avoid conflict with other connected devices, select a not-in-use number if at all possible.)

II . Measurement


■ Measuring procedure

Click “Measurement of Perspiration” in default screen to show the following.

- ① **Connect digital output of SKN-2000 and serial port (RS-232C) of PC. Turn power on. Use USB-serial converting cable to PC without serial port.**
- ②  **Click “ready” button.**



When the PC finds SKN-2000, the following screen will appear.

- ③ **Confirm the input unit is “SKADRC100ms”.**
- ④ **Select sampling rate (100ms、500ms、1s).**
- ⑤ **Select number of channels. For SKN-2000, number of channels is 1 or 2.**
When no. of channel “1” is selected, value of CH1 on SKN-2000 is displayed.
When no. of channels “2” is selected, value of CH1 and CH2 on SKN-2000 is displayed.
When no. of channels “3” is selected, value of CH1 and CH2 is displayed.
Ignore other channels data.
- ⑥  **Click “start2”.**



Start measuring and measured value is displayed.

○ Troubleshooting at the start of measuring

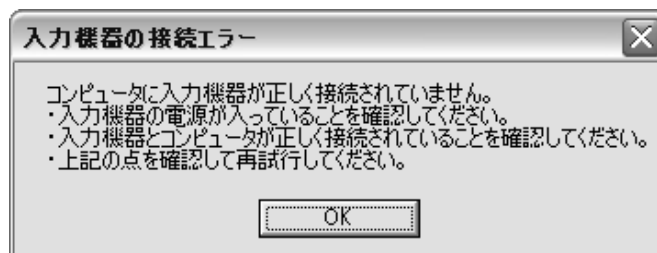
Following conditions appears at the start of measuring (“ready” is clicked.

▶ 計測準備(S)

), normal data communication may not be available between PC and SKN-2000.

[Phenomenon]

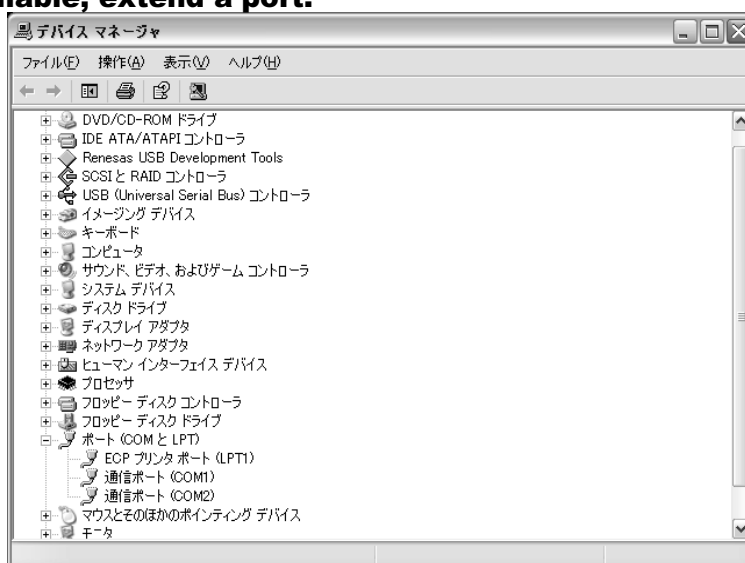
- Name of input unit is not “SKADRC100ms”.
- Following screen is displayed.



Take the following steps.

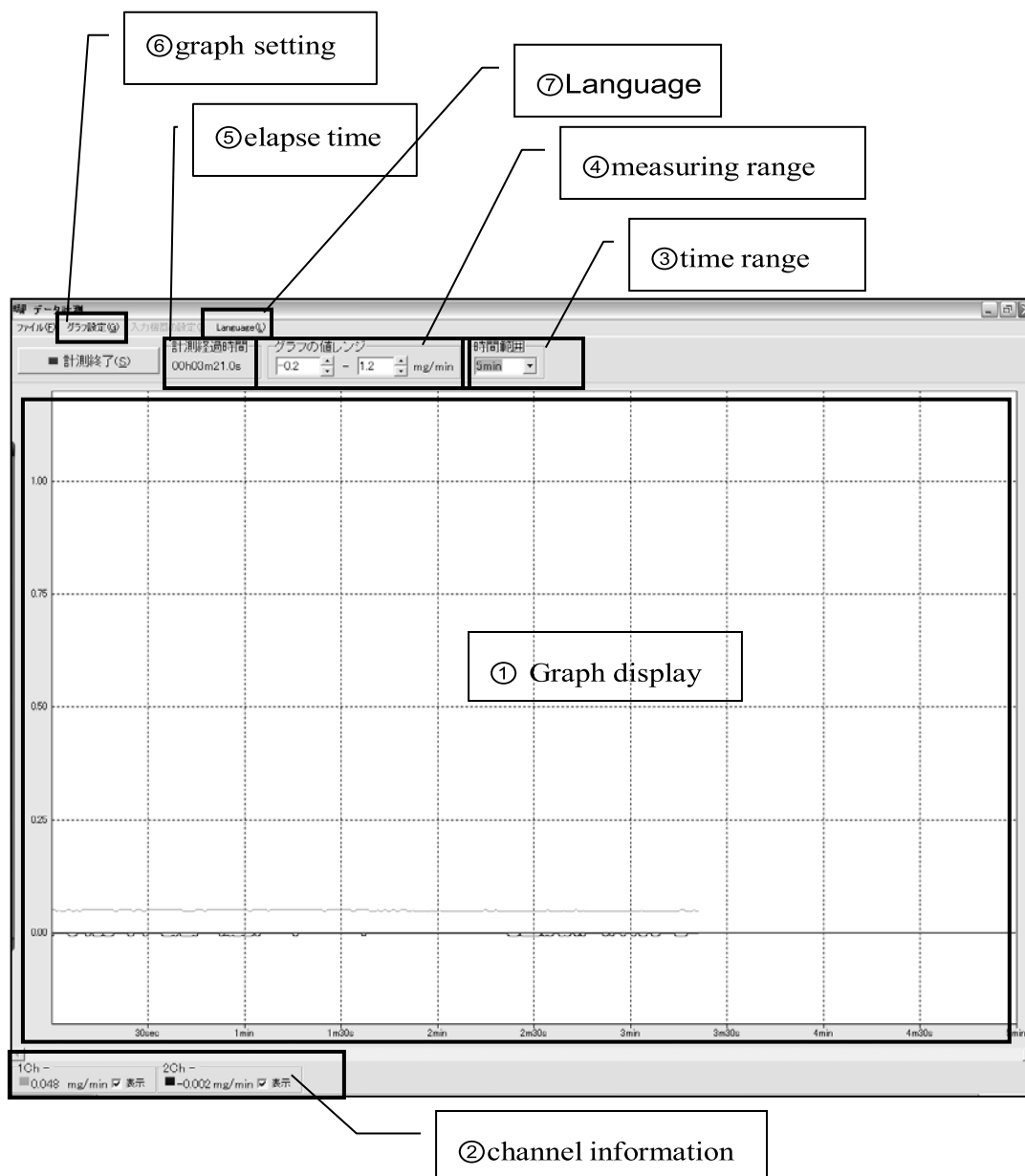
[methods]

- ① **Confirm the connection. Click “ready”** ▶ 計測準備(S) **again.**
- ② **Finish the software and turn off SKN-2000. Start the software again. Turn on SKN-2000 and click “ready”** ▶ 計測準備(S) **button.**
- ③ **Especially, USB-serial converter is used, no communication port is available. Click “my computer(click right) →property→hardware→device manager”. The following screen appears.**
Open “port(COM and LPT), and confirm SKN-2000 is connected to one of the port COM0 to COM4. Otherwise, mark “property→set port→detail set” and change the number of CO, or change the port connected. If the COM port is not available, extend a port.



- ④ **If the above does not solve the problems, consult to the dealer.**

■Function on the measurement screen



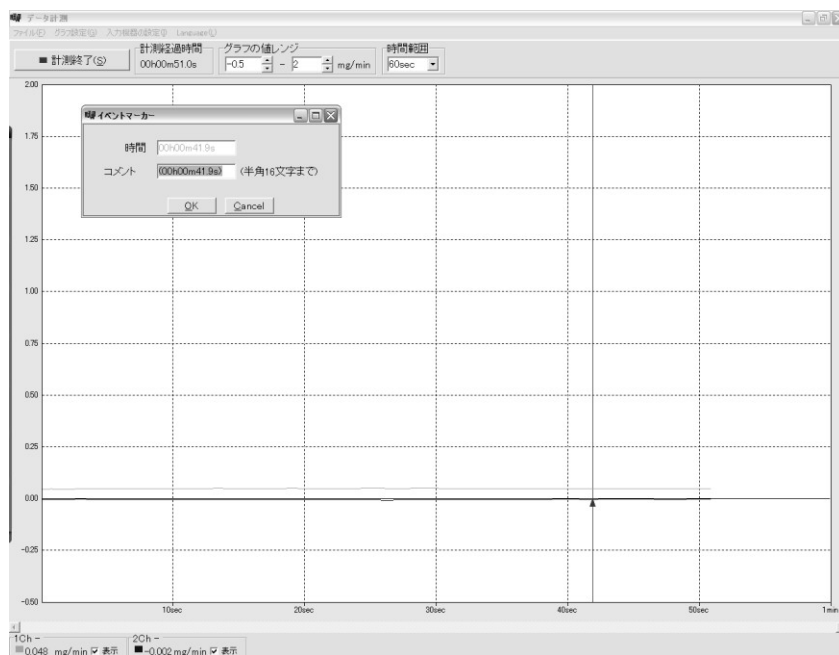
- ① **Graph display** : **Measuring value is shown on time axis.**
- ② **Channel information** : **Actual measuring value is shown.**
Select channel is displayed or not, and color of each channel.
- ③ **Time range** : **Change horizontal(time) axis range on screen**
- ④ **Measuring range** : **Change vertical axis range(max. and minimum).**
- ⑤ **Elapse time** : **Elapsing time for measuring is displayed.**
- ⑥ **Graph settings** : **Select graph line width on screen.**
- ⑦ **Language** : **Select displaying language.(Japanese or English)**

■Event marker

You can set an even marker to push your PC “enter key” during measurement.

[Procedure]

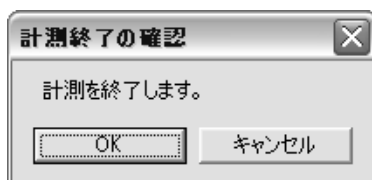
- ① Click “enter” key to show event marker screen.



- ② Input your comment less than 16 letters and click “OK” to enter.
- ③ If you do not record the event marker, click “cancel”.

■Terminate measuring and save data

- ① Push “end”  button to finish the measurement.
- ② Terminate confirmation screen appears. Then, click “OK” on the screen.
If you push “cancel”, the program continues measuring.



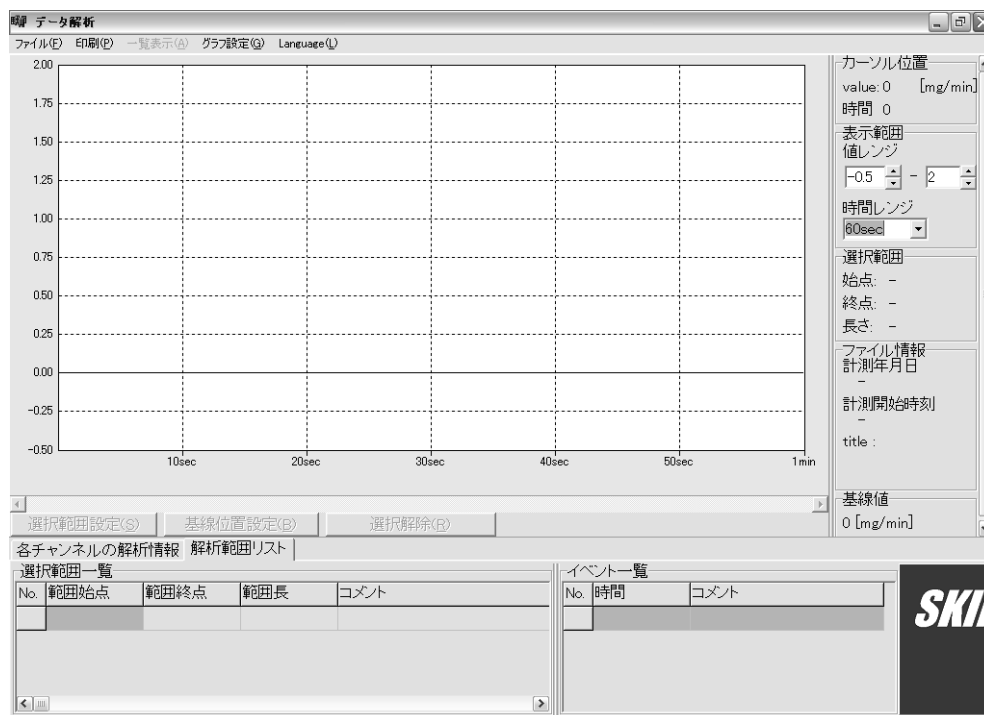
- ③ File save screen appears. Select save place and click “save”.
(Default file name is with measuring date, starting time and ending time.)
If you do not save, click “cancel”.
※If you click “cancel” once, you cannot save the data.



III . Analysis

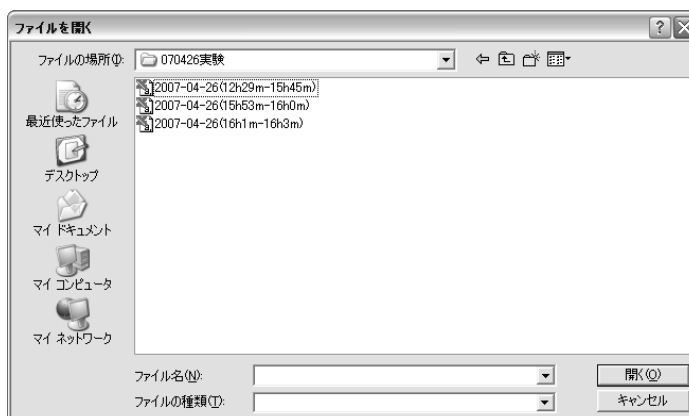
■ Start analysis

Click “Analysis of Perspiration” in the main menu, the following screen appears.

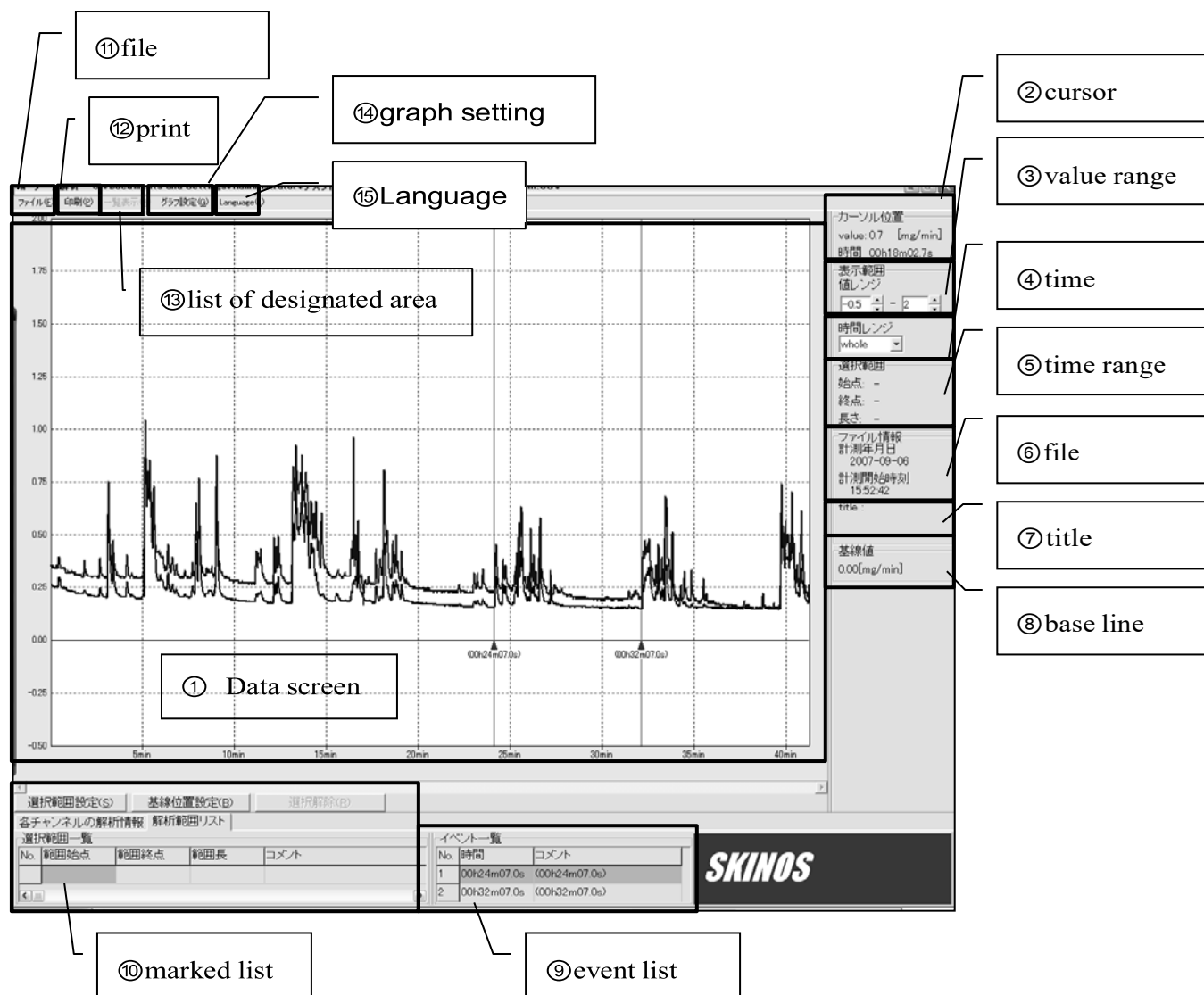


Open file to analyze.

Select “file(F)→open file”. Another screen appears. Select the saved file and open it.



■Function of analysis screen



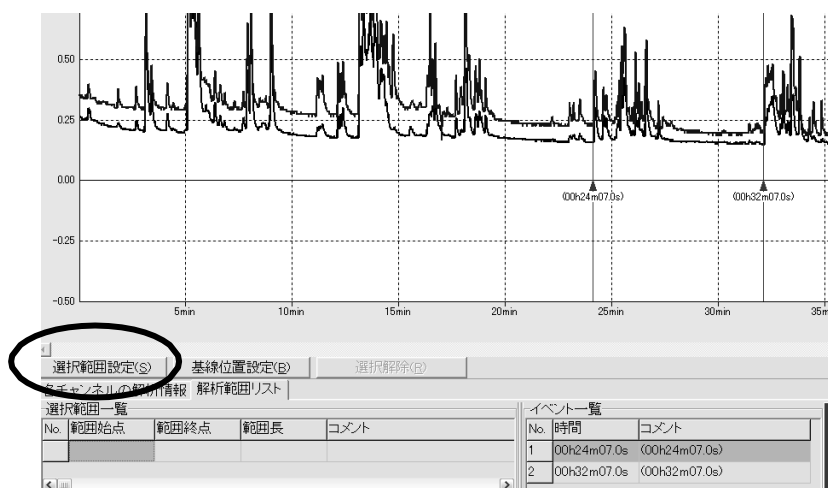
- ① **Data screen** : Analyzing data is displayed. By changing ③value range or ④time, you can set the display area.
- ② **Cursor** : cursor(mouse pointer position) is shown.
- ③ **Value range** : Change vertical axis (max. and minimum).
- ④ **Time** : Select time interval of display.
- ⑤ **Time range** : Analyzing range is shown. (→Refer to analysis.)
- ⑥ **File** : Year, month, date and time when measurement started is shown.
- ⑦ **Title** : Saved title is shown.(→Refer to input title.)
- ⑧ **Base line** : Base line is shown.(→Refer to set the base line.)
- ⑨ **Event list** : Event marker inserted during measurement is shown.

- ⑩ **Marked list** : **Analysis data creation, editing and display.(→Refer to analysis).**
- ⑪ **File** : **Open and save file.**
- ⑫ **Print** : **Print the analysis data. (Refer to print.)**
- ⑬ **List of designated area** : **Analysis area is shown in list and to print.**
- ⑭ **Graph setting** : **Select graph line width on the screen.**
- ⑮ **Language** : **Select displaying language either Japanese or English.**

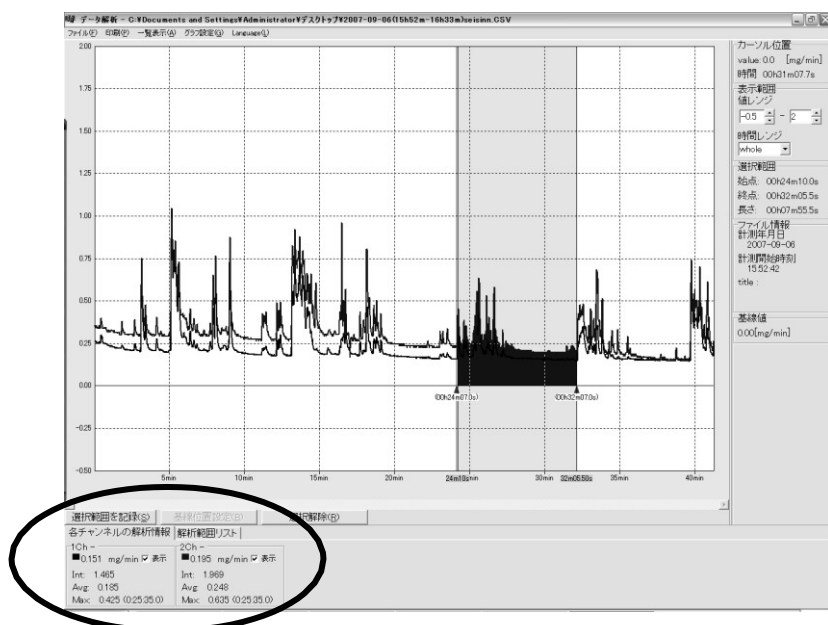
■Analyze

**This software has functions to integration, average and maximum value.
The procedures are as follows.**

I . Click “range set up”. 「選択範囲の設定」

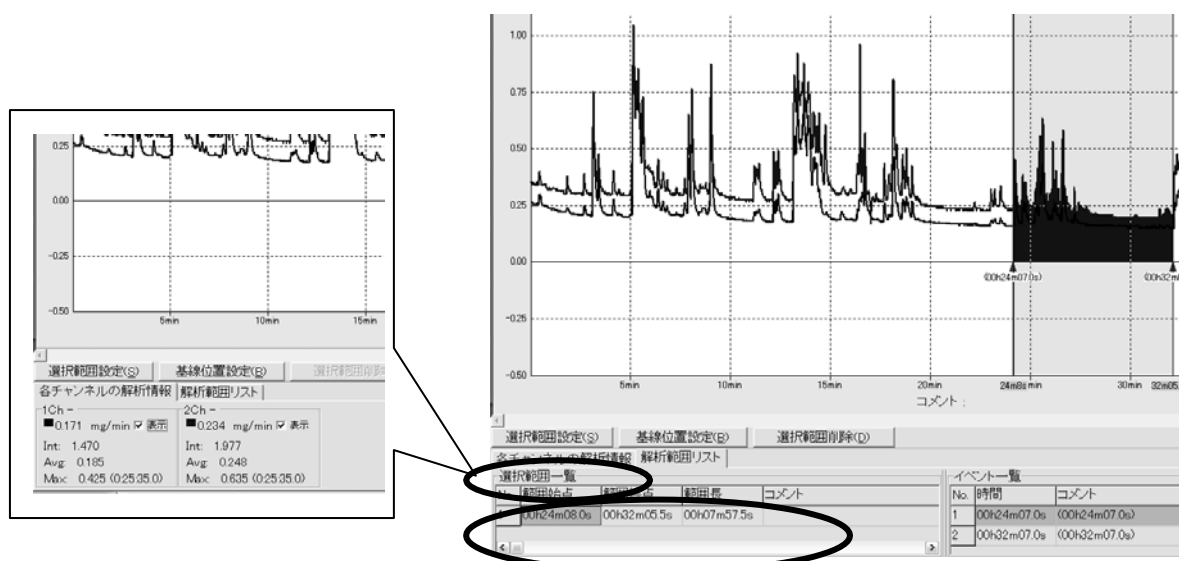


II. Designate range. In marked data list, click start and then click end. Then designed area is marked and integration, average and maximum value are displayed.



III. Click “marked” to save.

IV. After the designated area is saved, select the designated area from “marked list” to see the range. To see the integration, average, maximum, click “channel stats”.



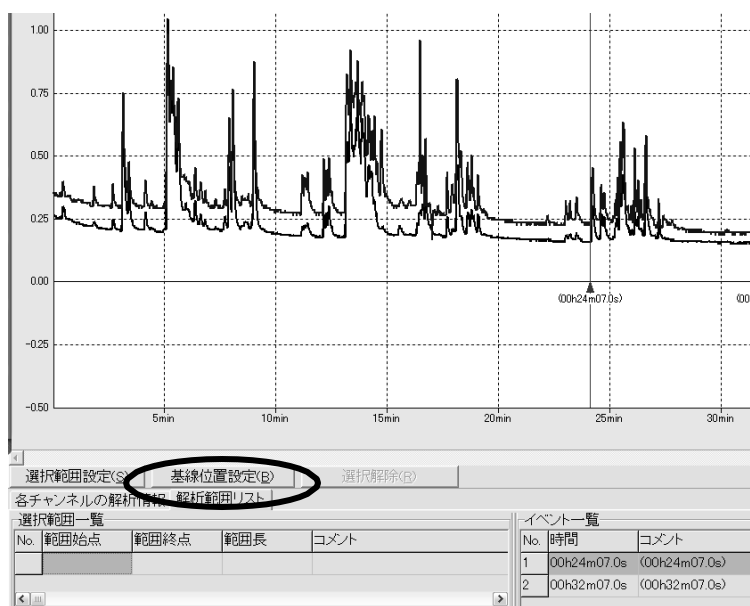
V. To analyze the other area, return to Item I. and repeat.

VI. If the designate area is not needed, select it from marked list, and click “Delete the marked.” When it is canceled, it is deleted from the marked list.

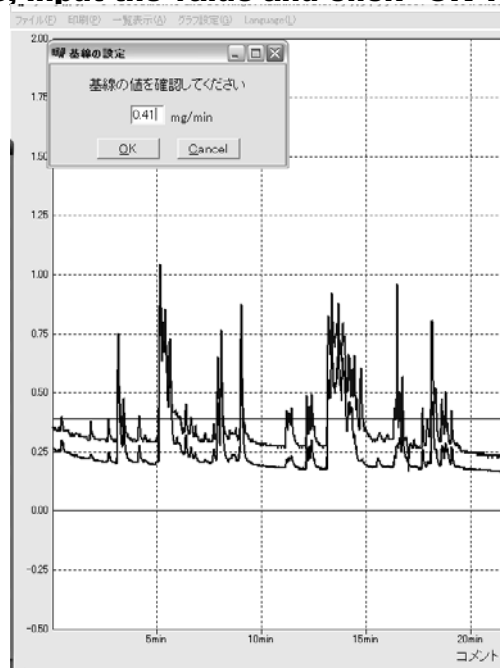
■Set the base line

When you set the base value (offset value) and analyze the value above it, follow the procedure below. A base line is set for one data only.

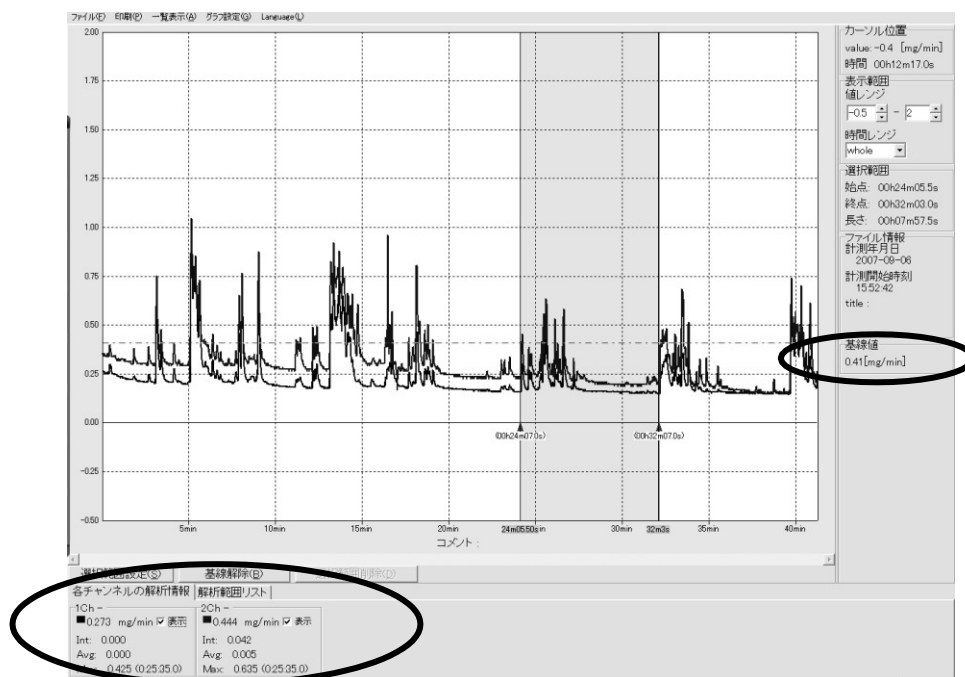
I. Click “Base line set up”.



- II. Place and click the cursor (mouse pointer) to where base line is to be set. Base line adjustment screen appears. Confirm the base line value and if you want to change the value, input the value and click “OK”.



- III. Base line appears as per base line value.
- IV. Click “channels stats” to see Int. and Avg. value which are above the base line. Maximum value is not influenced.

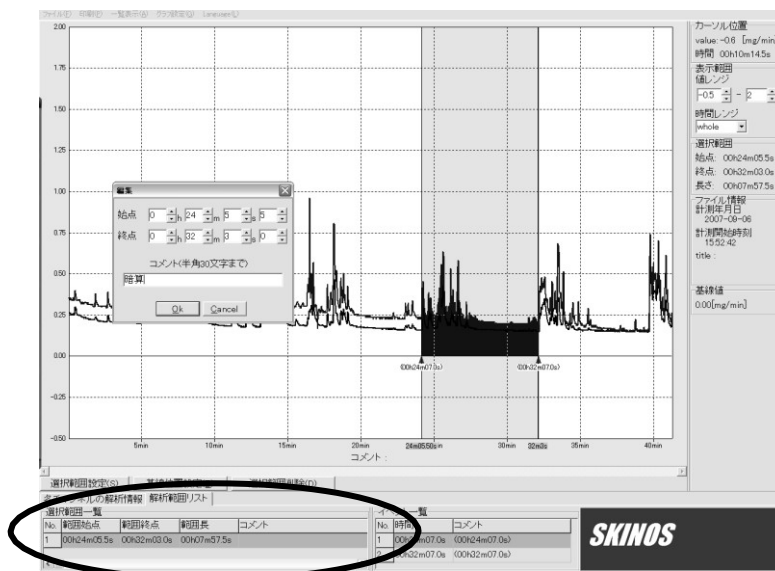


- V. To cancel the base line, click “reset the Base line”. When the base line is reset, analysis data return to the original.

■ Edit the analysis range

Adjust the analysis range and input comment.

- I. Double click analysis range to be edited from marked list of marked data list.
Edit screen appears.

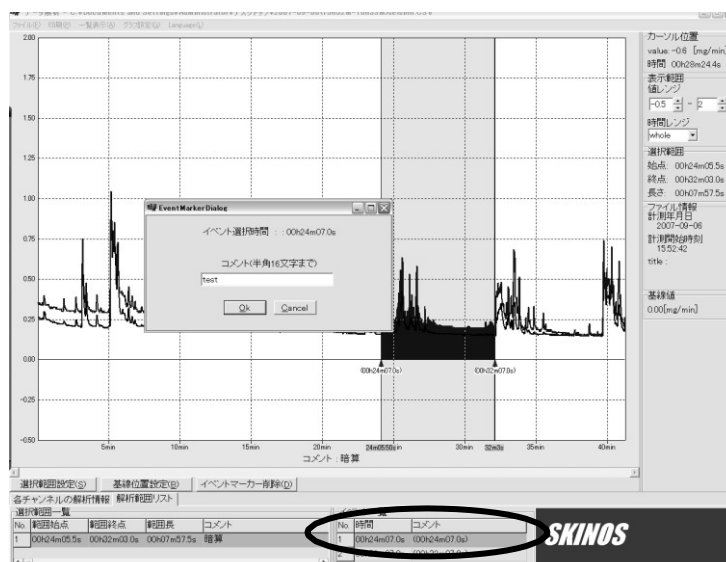


- II. Adjust the analysis range and input comment and click "OK".
Analysis range is changed and comment is added.

■ Edit the event marker

Input the comment to event marker.

- I. Double click the event marker to input the comment from "event list". Event marker dialog appears.

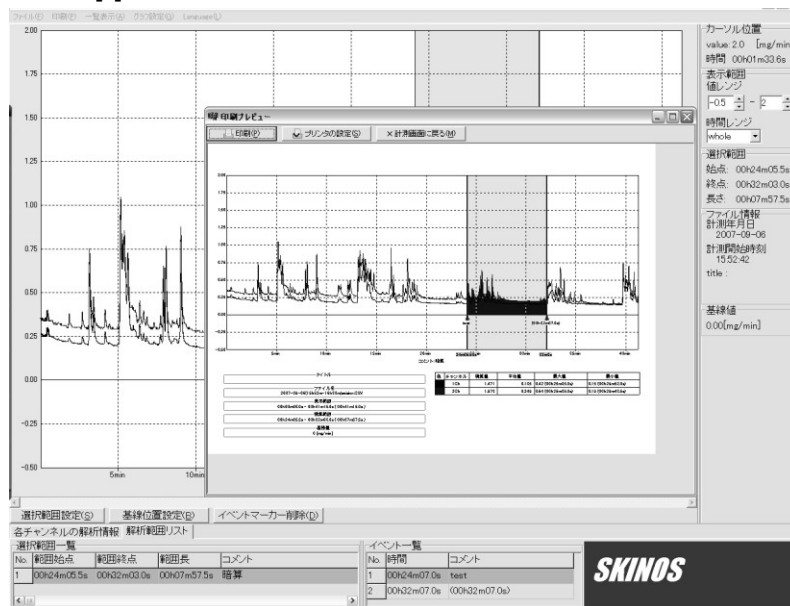


II. Input the comment and click “OK”. Comment of event marker is changed.

■Print

Print the analysis result. Graph, analysis value, event information, file name, analysis comment and base line setting are printed.

- I. Click the analysis result to be printed from “marked data list”. Analysis result appears in the screen.
- II. Change and adjust the value range, start or end of time and click “print”. Print preview screen appears.

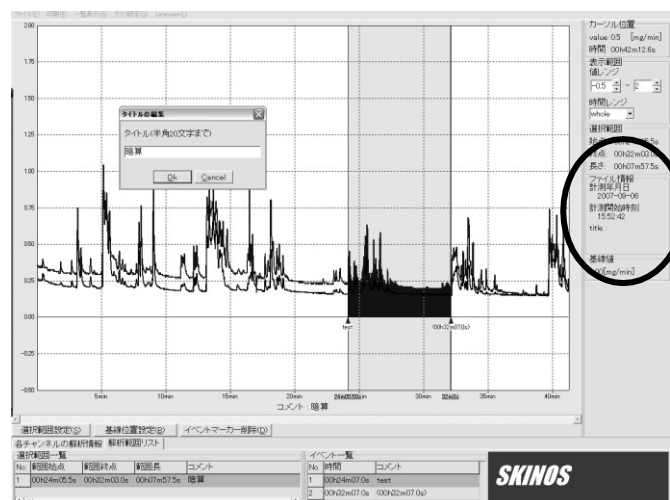


III. If needed, set “printer setup” and click “print”.

■Input the title.

In addition to file name, you can input the title.

- I. Click “file” to show edit title screen. Input the title and click “OK”.



■ Save the analysis result.

Save the analysis result. Select “file” “Save as” and designate save place and save it.

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