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ABIMEDICAL

OralChroma

OralChroma DataManager

User’s Guide

for Windows Version 3.5

Introduction

This is a user's manual for the *OralChroma DataManager*.

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■ Note

Screenshots shown in this manual may differ from the screens displayed on your PC.
Product specifications and the contents of the manual are subject to change for product improvement without prior notice.

July 2010
Printed in Japan.

Notation

In this manual, the user interfaces on the screen are described as follows:

■ Name of Menu and Window

The names of menus and windows are enclosed in square brackets [ ].
Windows are described as ‘the [ ] window’ in the text.

■ Command Button and Others

Bold letters shows the names of command buttons and others in the window.

■ Screen Examples

Only the necessary part of the screen may be shown as screen examples in this manual.
The screen examples may be different from the screens displayed on your PC, depending on the data or settings of your PC.

Note

This manual does not contain any explanations of the operations of Windows itself. For basic operations of Windows, please refer to the instruction manual supplied with your PC or Windows package.

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Product functions

OralChroma DataManager is data management software for OralChroma, a halitosis-measuring device**.**

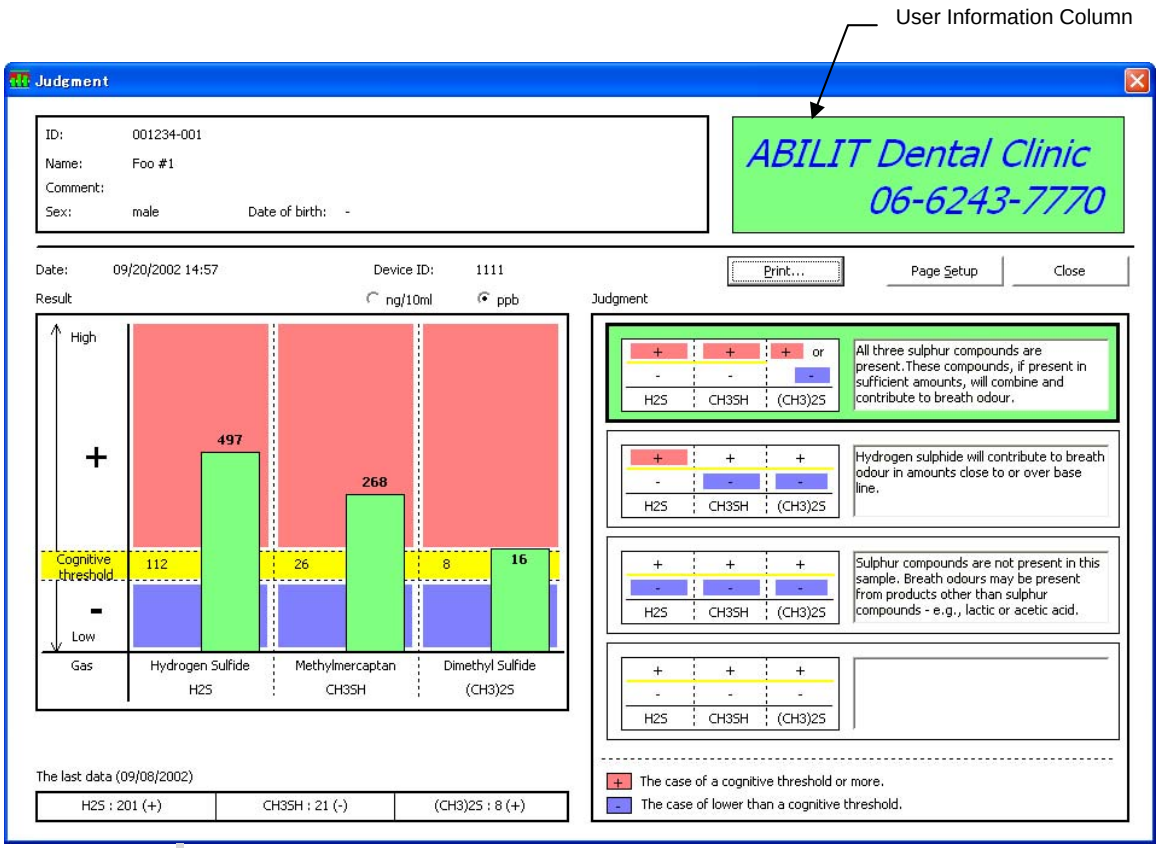
By running OralChroma DataManager on a PC connected to OralChroma, management of the collected data and their graphical representation are enabled with easy operation.

The following are the major functions of OralChroma DataManager.

Judging functional halitosis level of measurement data

The concentrations of three volatile gases measured by OralChroma are compared with the 'cognitive thresholds' as criterion to judge functional halitosis level.

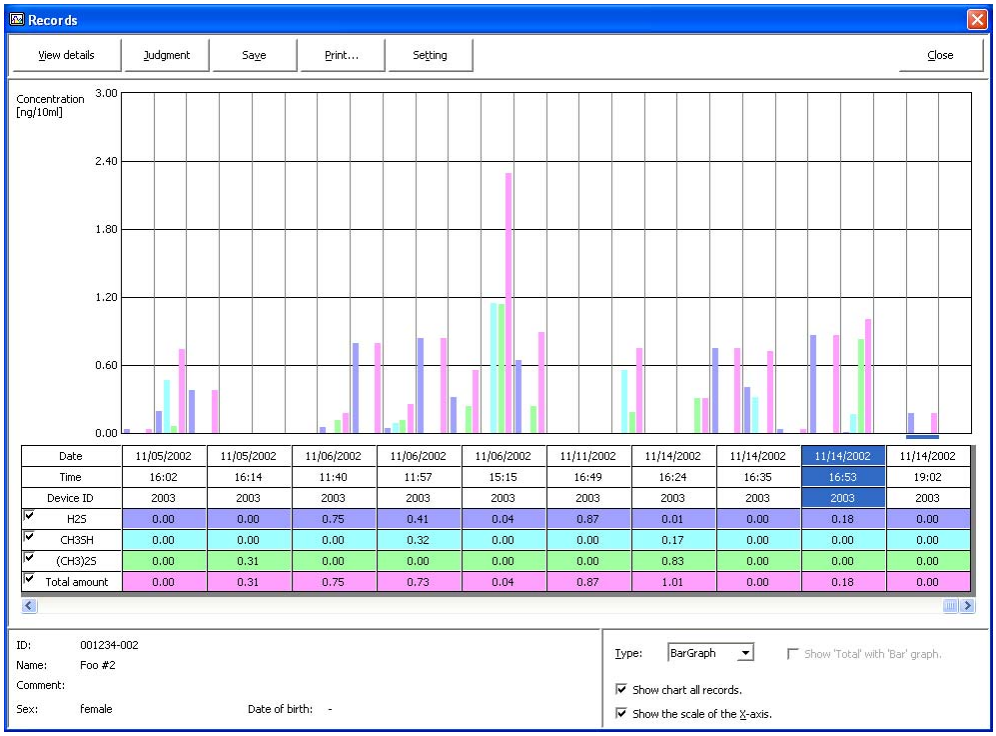
Types of volatile gases
(1) Hydrogen sulfide [H_2S] (2) Methylmercaptan [CH_3SH] (3) Dimethyl sulfide [$(CH_3)_2S$]



Sample of the [Judgment] window

Managing measurement data

The ID numbers and names of the test subjects are registered, so that the measurement data are controlled by the ID number as the key.
Such data searches become possible and are easily displayed as “Transition of gas concentrations of Mr. A” or “Measurement data of Ms. B on the specific day.”
The window display can be printed as it is.



Sample of the [Measurement history] window that displays transition of the gas concentrations

Managing personal properties of test subjects

To identify the test subjects, such data as ID numbers and names are registered as personal properties.

Personal properties consist of five components: ID, name, comment, sex, and date of birth. A list created with spreadsheet software can be imported.

Before Use

System Requirements

This software runs on computers with Windows 2000 or later. Therefore, it needs hardware that meets the following requirements. Be sure to check the system environment and the settings of your computer before use.

OS	Windows 2000,XP, VISTA
Computer	IBM PC/AT or compatible computer
Memory	16MB or more
Hard disc	30MB or more
Display	1024 x 768 pixels, 256 colors or more
CD-ROM drive	1 unit
COM port	One RS-232C

(Hereinafter, computer is referred to as PC and the OS as Windows.)

Operations of *OralChroma*

Please read the manual of *OralChroma* about the operation.

Setup

Note
Only the user with administrator privilege may install/un-install OralChroma DataManager.
For Windows Vista, you need to turn off User Account Control(UAC) in Vista

Installing Software

(1) Power on the PC and start Windows.
(2) Insert the installation CD-ROM into the CD-ROM drive.
(3) The installation program is automatically started on the PC where automatic execution (autorun) of the CD-ROM is supported. Otherwise, double-click [setup.exe] in the root directory of the CD-ROM.

Follow the directions displayed on the window to proceed with the installation.

Connecting OralChroma to a PC

OralChroma DataManager communicates with OralChroma via a serial port compliant with RS-232C.

Before you transfer data measured by OralChroma to OralChroma DataManager, connect the PC and OralChroma with the connecting cable (*).

(*) If the connecting cable included does not fit your PC, purchase an expanded board or conversion cable, which is commercially available.

Uninstalling Software

(1) Click the Windows ***Start*** button and choose [Settings] - [Control Panel].
(2) Choose [Add or Remove Programs] in the [Control Panel] dialog box.
(3) Choose 'OralChroma DataManager' from the application list and click '**Add or Remove**' button. A dialog box is displayed to confirm the deletion. Click **Yes** button.

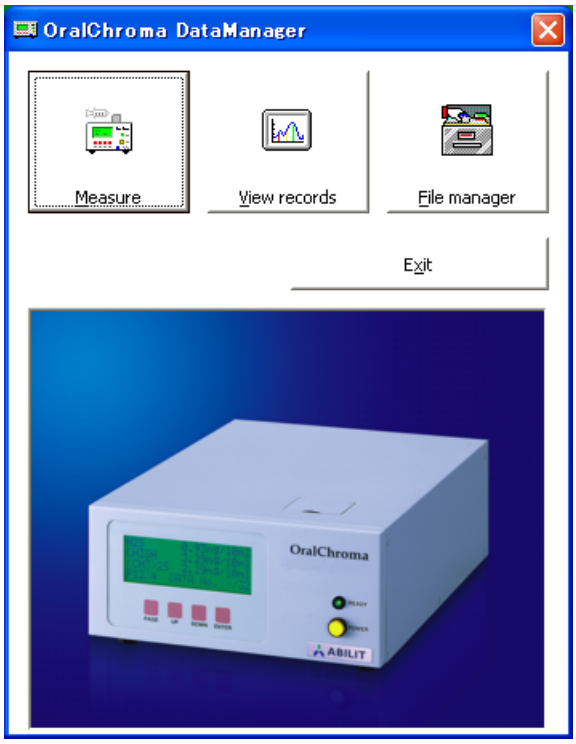
Note
This procedure uninstalls the software but does not delete the saved measurement data.

Starting and Ending the *OralChroma DataManager*

Starting the *OralChroma DataManager*

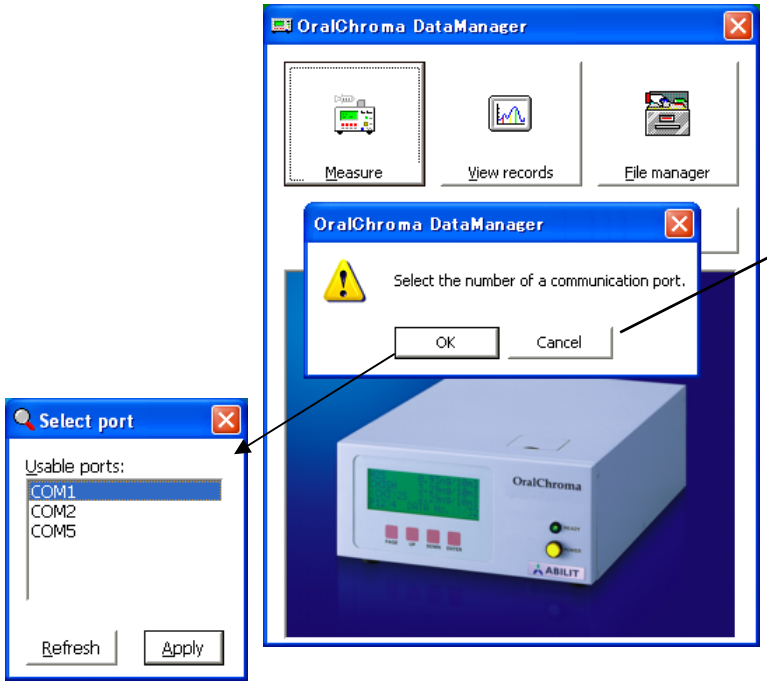
Note
If the OS of the computer on which you run OralChroma DataManager is Windows 2000, XP, or Vista, log on to the computer as Administrator or Power User. For Windows XP or Vista Home Edition, log on not as User but as Administrator.

(1) Click ***Start*** button and choose [OralChroma DataManager], or double-click the **OralChroma DataManager** icon on the Windows desktop.
(2) The [OralChroma DataManager] window is displayed following the startup window.



Setting Communication Port Number

When you first activate the program after installation, a dialog box is displayed to trigger the setting of the communication port number. Specify the communication port number you connect OralChroma to.



If you have once cancelled the box, click **Measure** button and the dialog box will be displayed again.

Select one from a set of choices and click **Apply** button.

Setting Device ID

When you use multiple OralChroma's, ID numbers have to be registered to identify them.

It is possible to make measurements using OralChroma without a device ID. Registration, however, is highly recommended, even if you use only one OralChroma.

The device ID number is registered on the [System Setting] window.
For the specific procedure, refer to "[Device ID] tab" section on page 26.

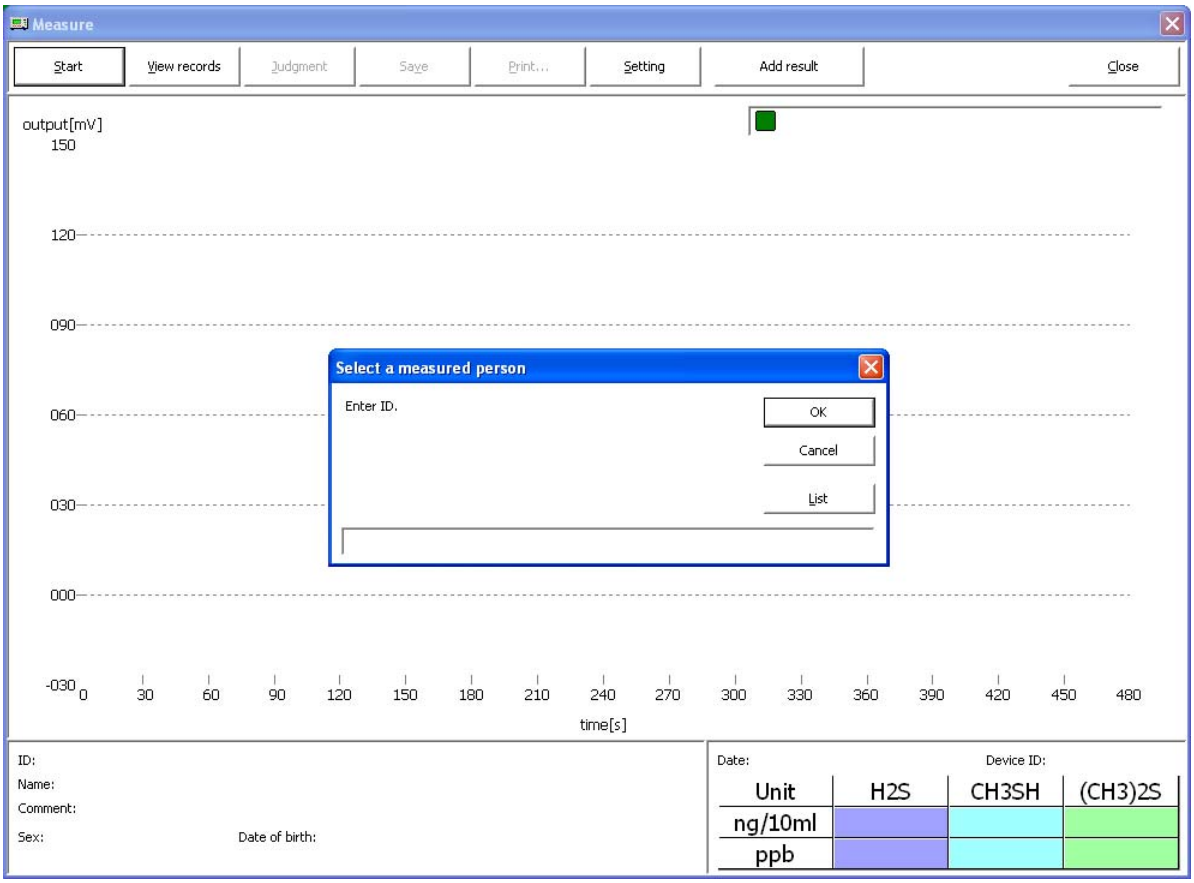
Ending the *OralChroma DataManager*

(1) End all operations including "Measure" and "View records" and return to the [OralChroma DataManager] window.
(2) Click **Exit** button on the [OralChroma DataManager] window.

Receiving Measurement Data

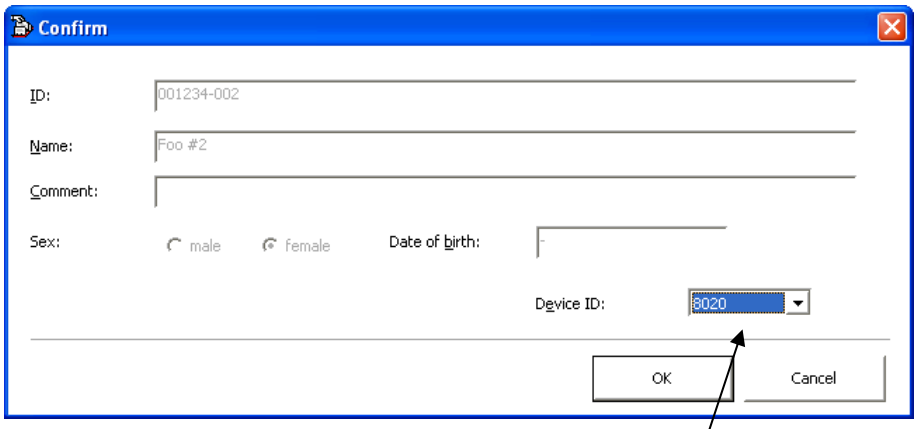
The program receives measurement data (sensor voltage and gas concentration) from OralChroma.
The value of the sensor voltage is plotted on the window.

Click **Measure** button on the [OralChroma DataManager] window.
The [Measure] window is displayed and then the [Select a measured person] window is displayed.



When you enter a number, which has not been registered, the [Unregistered ID] dialog box is displayed. If it is a new registration, follow the procedure as described below.

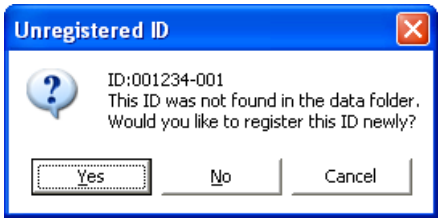
When you enter a registered number, personal properties including name, etc. are displayed.
Confirm the information, select one from **Device ID** pull-down list, and click **OK** button.



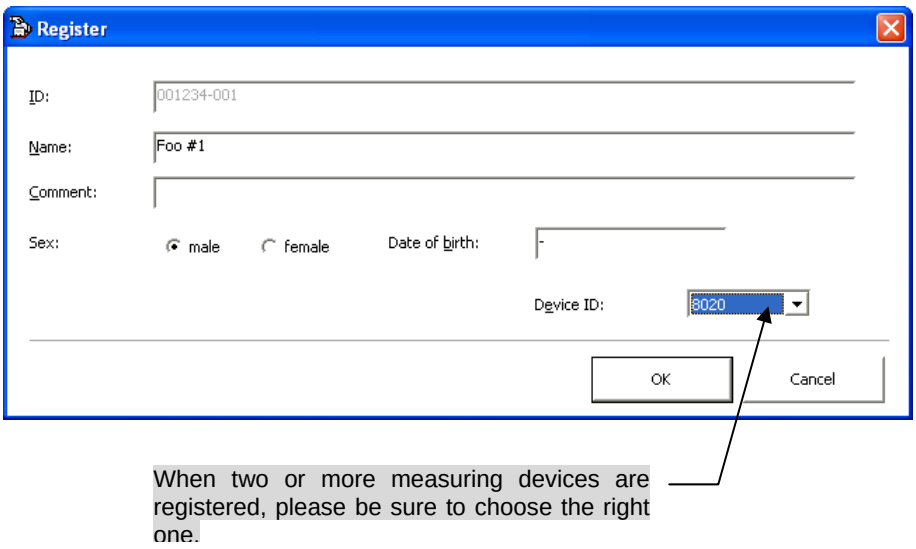
When two or more measuring equipments are registered, please be sure to choose the right one.

Registering Number

If you want to register the ID number you have entered as a new test subject, click **Yes** button in the [Unregistered ID] dialog box.



If you have chosen to register a new ID number, the [Register] dialog box is displayed. Fill in **Name** and **Comment** fields, choose one option in **Device ID** field, and click **OK** button.



The maximum number of characters that can be entered in the **ID**, **Name**, and **Comment** fields is 30 each. These fields are not case sensitive.

Select either **male** or **female** for **Sex** field.

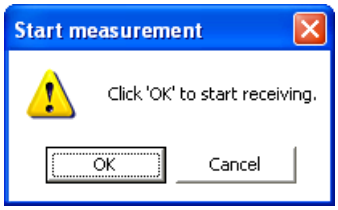
Up to 10 digits can be entered in **Date of Birth** field.
The data can be registered without Date of Birth. Characters other than date can also be entered in this field.

Avoid duplicating the registered ID number. You can register the ID number without entering any data in the **Name** and **Comment** fields, but it is recommended that all fields be filled in to make subsequent selection and confirmation easier.

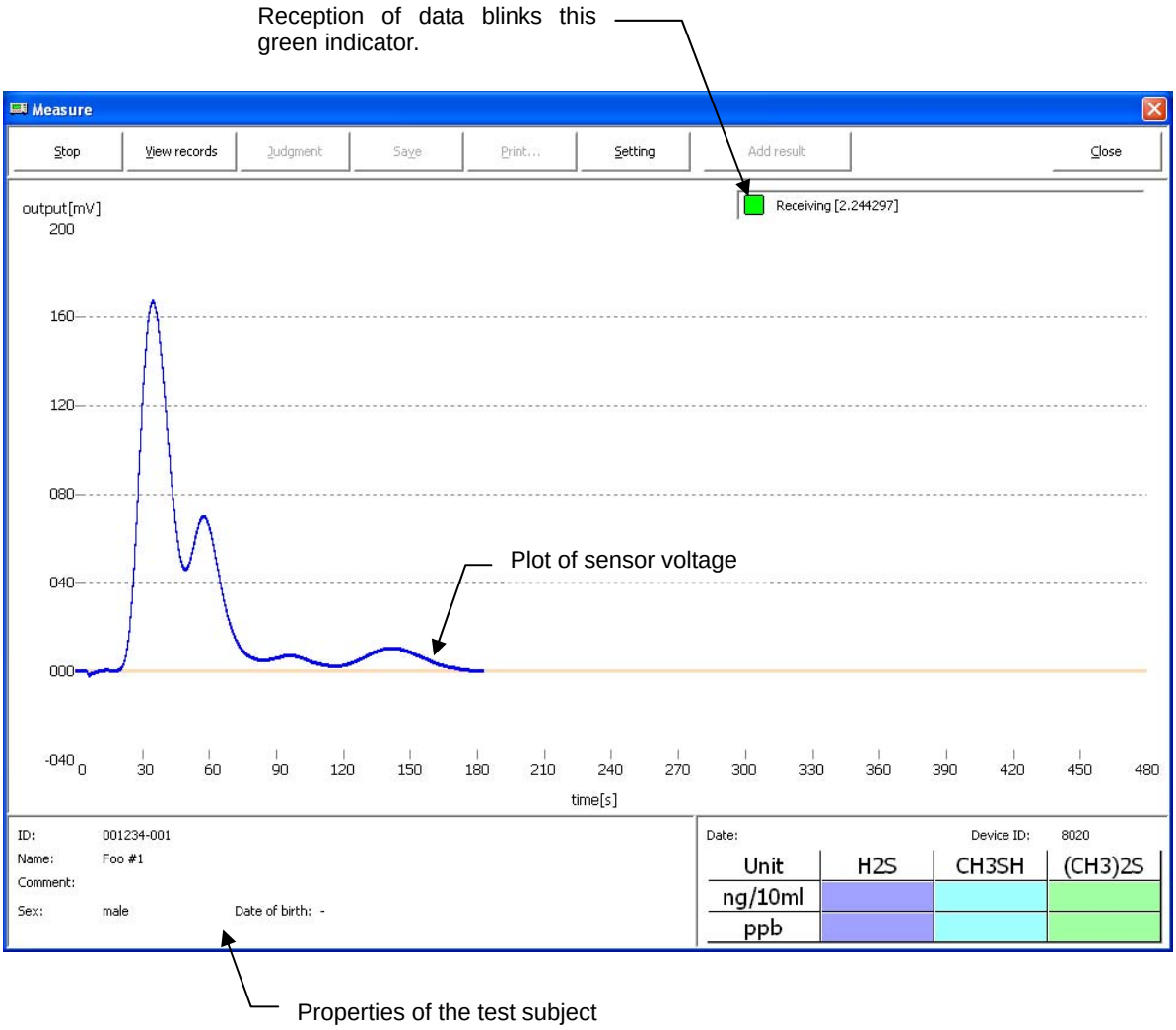
Starting Measurement

A dialog box is displayed to confirm whether you wish to start the measurement. Click **OK** button. The system is now ready for receiving measurement data from OralChroma.

If you click **Cancel** button, the measurement is suspended while the [Measure] window is open. To re-start the measurement, click **Start** button.

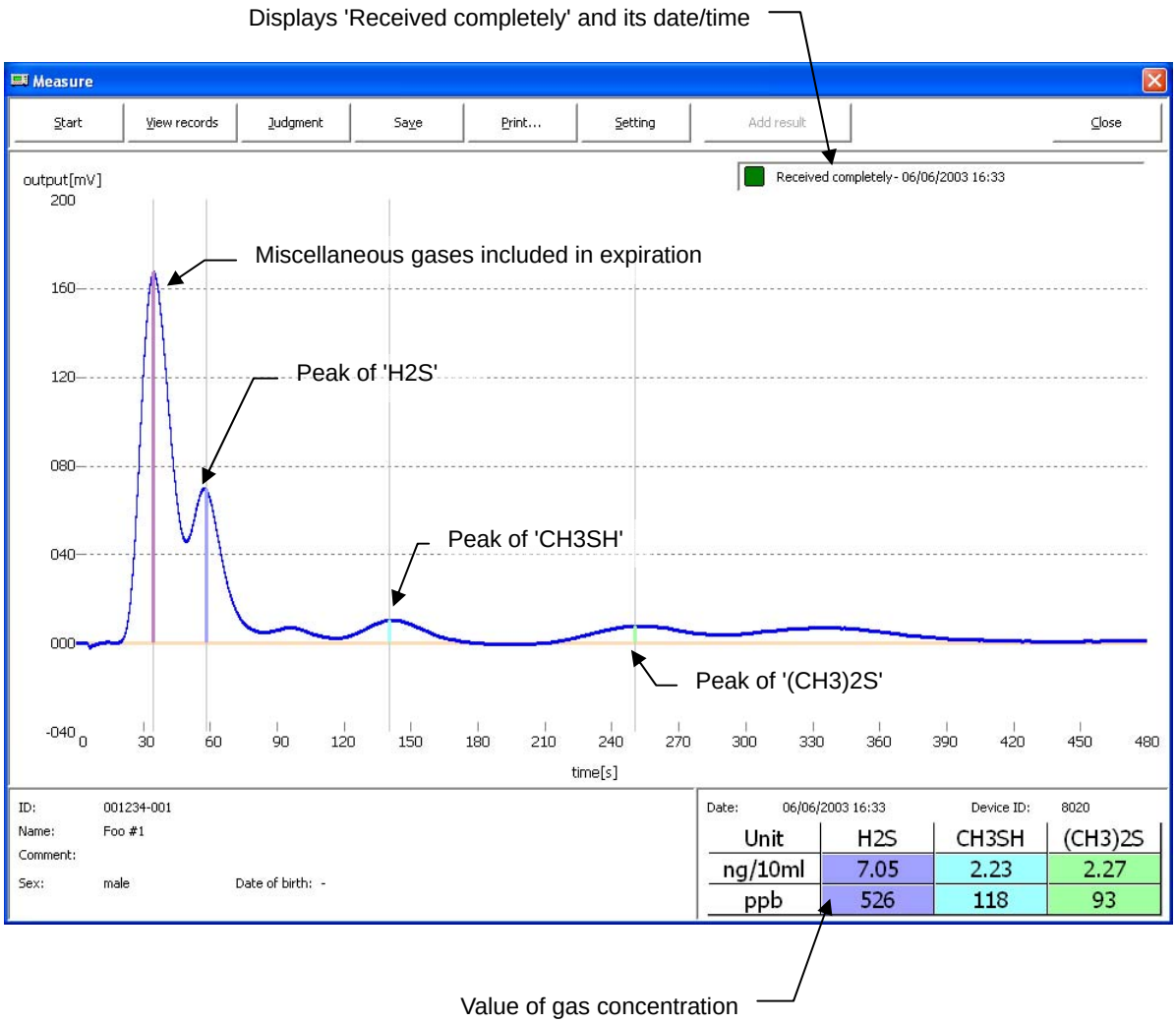


While the system receives data from OralChroma, it updates the graph approximately every second. Completion of reception of all data ends measurement.



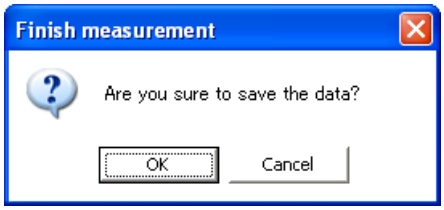
Completing Measurement

When the data reception process is completed, the [Measure] window displays the peaks and values of gas concentrations as shown below.



Saving Measurement Data

When the measurement data is received, a dialog box is displayed to ask if you want to save the data. To save it, click **OK** button.



If you click **Cancel** button, the data is not saved. However, you will have a chance to save it later by clicking **Save** button.

If you close the [Measure] window by clicking **Close** button or if you reset the graphic display by clicking **Start** button, the received data is lost and cannot be saved.

For your reference:
If you notice that you have chosen wrong test subject after data reception is started, click **Cancel** button in the dialog box shown above. (Click **Cancel** button, when the confirmation for measurement results is displayed.)
Click **Save** button on the [Measure] window. Now you are ready to specify the right test subject.
Select the right test subject and save it.

Displaying Judgment

Following the dialog box that asks if you want to save the data when the measurement is completed, another dialog box is displayed to choose display of the [Judgment] window. Click **OK** button. The [Judgment] window is displayed.
The [Judgment] window can also be displayed if you click **Judgment** button after completing measurement.

For details of the [Judgment] window, refer to the “Judgment” section on page 14.

Suspending Measurement

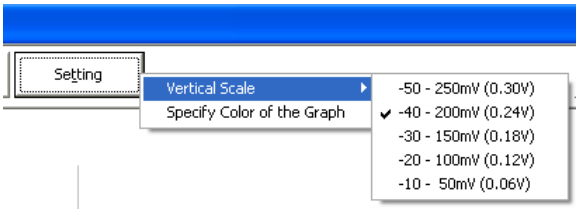
Click **Stop** button if you want to suspend the measurement before completing data reception. Clicking **Yes** button in the [Stop Receiving] window suspends data reception and clears the graphic chart.

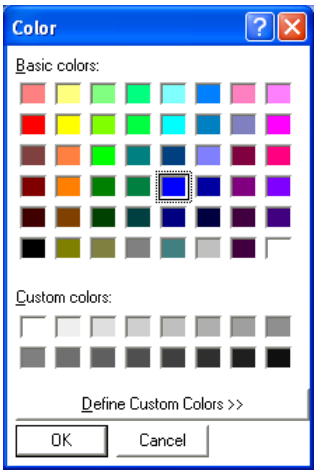
Note
Even if receiving data is suspended on the OralChroma DataManager side, OralChroma continues sending measurement data. Click **Start** button after measurement is completed on the OralChroma side, if you want to restart data reception.

Note
When measurement data were not received completely for the mistake of the operation order, an error of the communication setting or the malfunction of the communications cable normally, you can store gas density displayed by 'OralChroma' as a measurement record. Please refer to "Appendix - Input of the measurement result" in detail.

Setting Display

If the graph of the measurement data is too large for the screen or too small to see changes, it can be adjusted. Click **Setting** button on the [Measure] window and choose an option from '**Vertical Scale**' menu. The scale can be adjusted even while the system is receiving the data.





Colors for the plot can also be changed by choosing the '**Specify Color of the Graph**' menu and then choosing a new color in the [Color] window.

Displaying Measurement Records

The records of past measurement data can be graphed during or after the measurement.

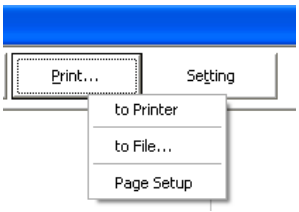
Click '**View records**' button on the [Measure] window and the [Records] window is displayed. For details, refer to the "Displaying Measurement Records" on page 16.

Printing

Screenshot of the [Measure] window can be printed on the printer.

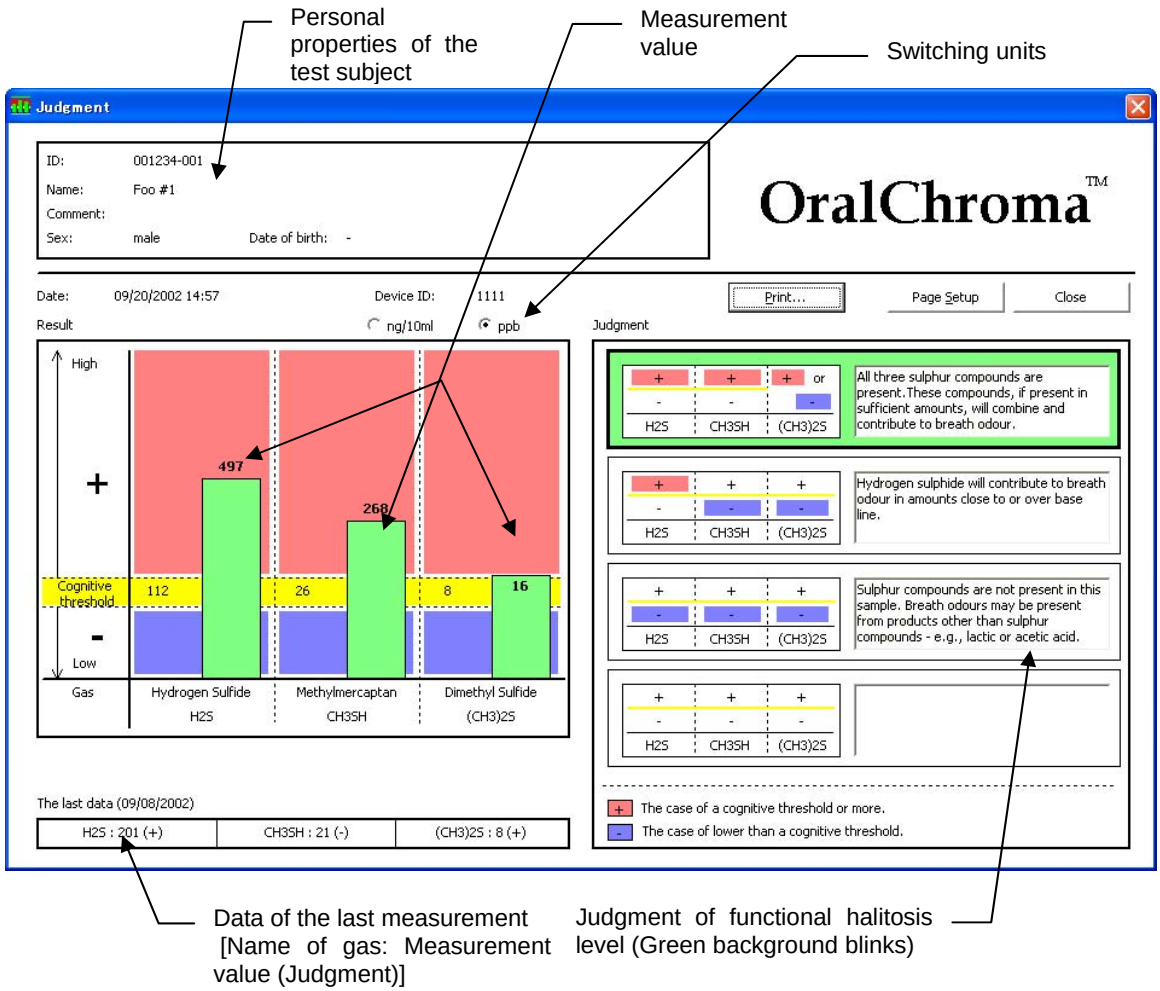
Click **Print** button and choose the '**to Printer**' menu; the [Measure] window is printed.
If you need to set paper size, etc., choose '**Page Setup**' menu before printing. Please note that the printer setting specified here is applied to the printing of the [Judgment] window and the [Records] window.

Clicking the '**to File**' menu saves the window in the form of a bitmap file.



Judgment

Measurement values and halitosis cognitive threshold are compared and the judgment of the functional halitosis level is displayed.



Displaying the [Judgment] Window

Either of the following procedures opens the [Judgment] window.

■ From the [Measure] window

- When measurement is completed, a dialog box is displayed to check if you want to save the measurement data, followed by another dialog box to choose the display of the [Judgment] window. Clicking **Yes** button opens the [Judgment] window for the data.
- Clicking **Judgment** button on the [Measure] window displays the [Judgment] window. **Judgment** button cannot be clicked before or during measurement.

■ From the [Records] window

- Select the measurement date from the history list on the [Records] window and click **Judgment** button; the [Judgment] window is displayed.

Method of Judgment

Judgment process of the measurement value is described as follows:

① Measurement values of the three gases are compared with 'Cognitive thresholds'. If the value is above the threshold, '+' is given. If it is below the threshold, '-' is given. 'Cognitive threshold' is the lowest level of concentration where people can identify what kind of smell it is. As there are differences between individuals in the level of the olfactory sense, it should be regarded as a "guideline."

② The combination of '+' and '-' is compared with the judgment patterns and the one with the same combination is the judgment given.

There are seven judgment patterns as follows:

Judgment sentence	H2S	CH3SH	(CH3)2S
Sulphur compounds are not present in this sample. Breath odours may be present from products other than sulphur compounds – e.g., lactic or acetic acid.	-	-	-
Hydrogen sulphide will contribute to breath odour in amounts close to or over base line.	+	-	-
All three sulphur compounds are present.These compounds, if present in sufficient amounts, will combine and contribute to breath odour.	+	+	+ or -
Hydrogen sulphide and dimethyl sulphide, if present in sufficient amounts, will combine and contribute to breath odour. r if present in amounts close to or over baseline.	-	+	-
Methyl mercaptan can contribute to breath odour if present in amounts close to or over baseline.	+	-	+
Methyl mercaptan and dimethyl sulphide, if present in sufficient amounts, will combine and contribute to breath odour.	-	+	+
Dimethyl sulphide is a cabbage-like odour that bacteria commonly produce. It can sometimes be digestive in origin.	-	-	+

The default 'Cognitive thresholds' and 'Judgment sentences' have been specified. The values and contents, however, can be altered at your discretion.
For the procedures, refer to the "[Judgment] tab" section in "System Setting" on page 25.

Printing

Clicking **Print** button prints the [Judgment] window.

The size and direction of the paper can be set by pressing '**Page Setup**' button. Please note that the printer settings specified here are applied to the printing of the [Measure] window and the [Records] window.

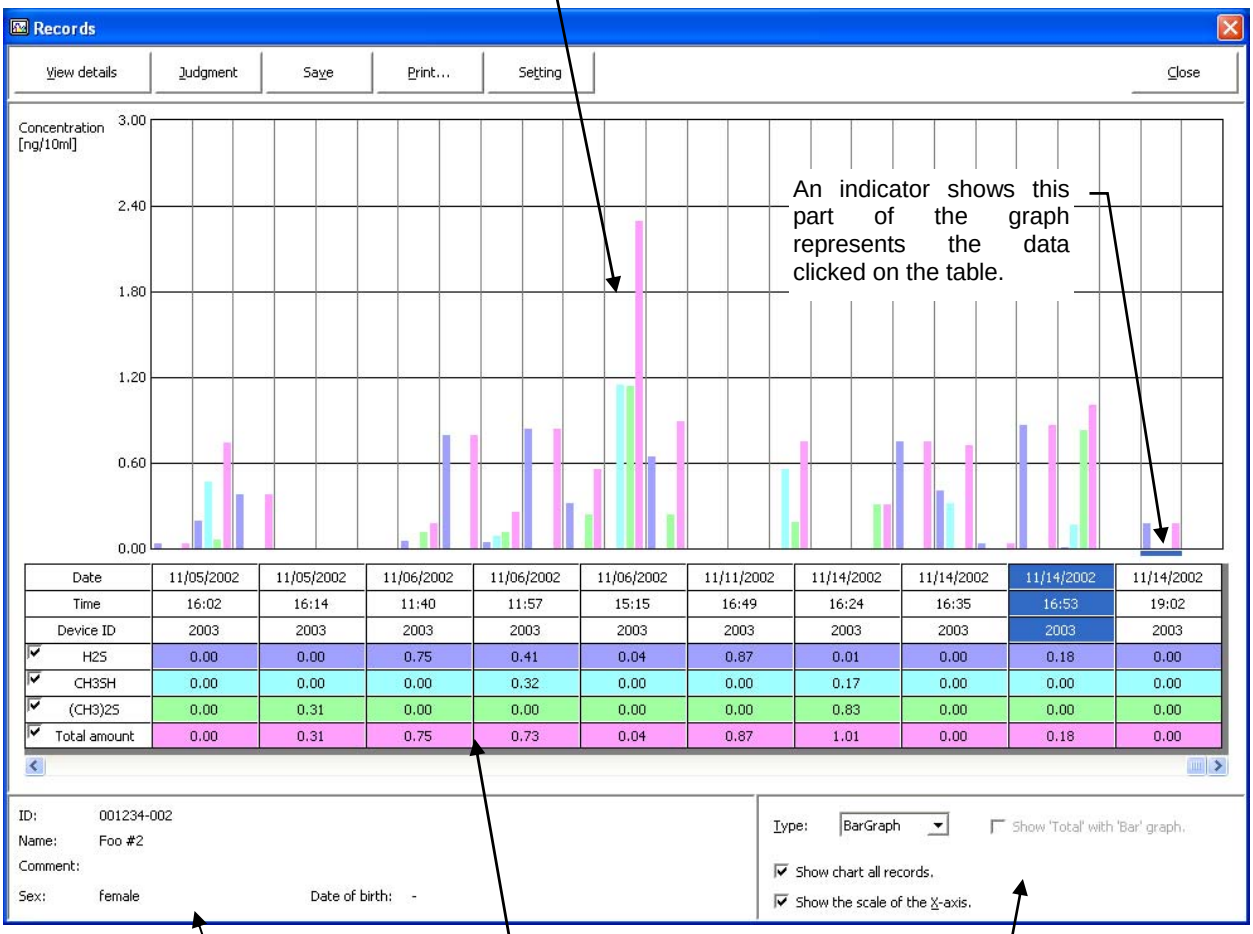
Clicking **Print** button while pressing **Shift** key on the keyboard saves the [Judgment] window in the form of a bitmap file.

Displaying Measurement Records

Changes in gas concentrations can be graphed from the saved measurement data.

Click '**View records**' button on the [OralChroma DataManager] window to display a list of saved data. Select the row of the number whose measurement data you want to graph and click **OK** button. The [Records] window is displayed.

The vertical axis indicates the value of gas concentration and the horizontal axis indicates the measurement date.



Date	11/05/2002	11/05/2002	11/06/2002	11/06/2002	11/06/2002	11/11/2002	11/14/2002	11/14/2002	11/14/2002	11/14/2002
Time	16:02	16:14	11:40	11:57	15:15	16:49	16:24	16:35	16:53	19:02
Device ID	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003
H2S	0.00	0.00	0.75	0.41	0.04	0.87	0.01	0.00	0.18	0.00
CH3SH	0.00	0.00	0.00	0.32	0.00	0.00	0.17	0.00	0.00	0.00
(CH3)2S	0.00	0.31	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00
Total amount	0.00	0.31	0.75	0.73	0.04	0.87	1.01	0.00	0.18	0.00

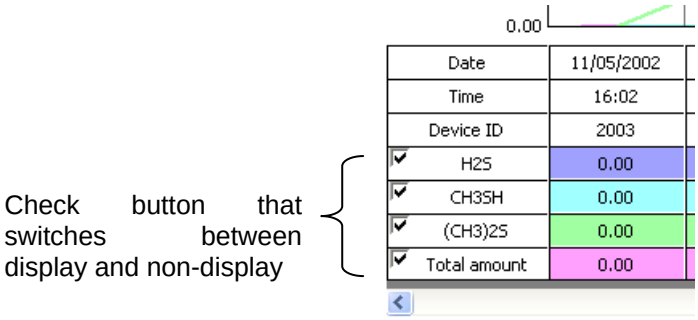
Personal properties of the test subject

Table that displays the date and value of measurement

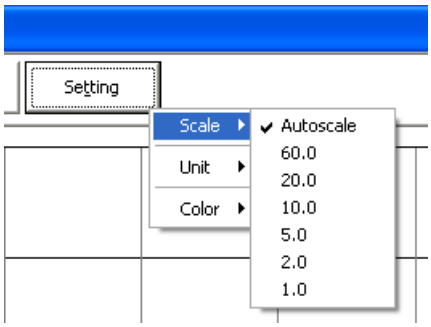
Display setting

Controlling Graph Display

Clearing the check button on the left of the gas name in the measurement date/value table hides the graphic display of the gas.



Clicking **Setting** button displays the menu shown as below.

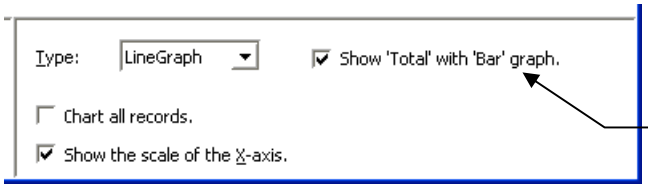


Scale menu alters the scale of the vertical axis of the chart. **Autoscale** automatically adjusts the scale according to the data to be displayed on the graphic chart.

Unit menu switches the unit of gas concentration between **ng/10 ml** and **ppb**.

Color menu alters the colors of the graphic display.

In the lower right of the window, the following functions are displayed for setting.



It is enabled when **ng/10 ml** is chosen for the unit and **Line Graph** for type.

The type of graphic chart is chosen in **Type**. Select either **Bar Graph** or **Line Graph**.
The **Show 'Total' with 'Bar' graph** option becomes enabled when [ng/10 ml] is chosen for the unit and **Line Graph** for **Type**.

Only the total amount is displayed in the bar graph when checking this option.

Checking '**Chart all records**' displays the gas concentration value of all measurement data in the form of a graphic chart.
If you clear '**Chart all records**', ten measurement data are displayed at once. If you have more than ten data, the next data will be displayed by moving the scroll bar at the bottom of the table.
If you click a part of the table, an indicator is displayed in the graphic chart that corresponds to the data clicked.

Checking/unchecking '**Show the scale of the X-axis**' turns on/off the display of scales on an X-axis.

The alterations to the settings are saved in the program and a graph based on the same setting is displayed when you next open the [Records] window.

Printing Measurement History

Screenshot of the [Records] window can be printed on the printer.

Click **Print** button and choose the '**to Printer**' menu displayed; the [Records] window is printed.
If you need to set paper size, etc., choose the '**Page Setup**' menu before printing. Please note that the printer setting specified here is applied to the printing of the [Measure] window and the [Judgment] window.

Clicking the '**to File**' menu saves the window in the form of a bitmap file.

Exporting Measurement History

A list of measurement dates and values can be saved as a text file in CSV format.

Click **Save** button; specify the file in the [Save as] window, and Click **OK** button. All measurement dates and values are saved in a file.

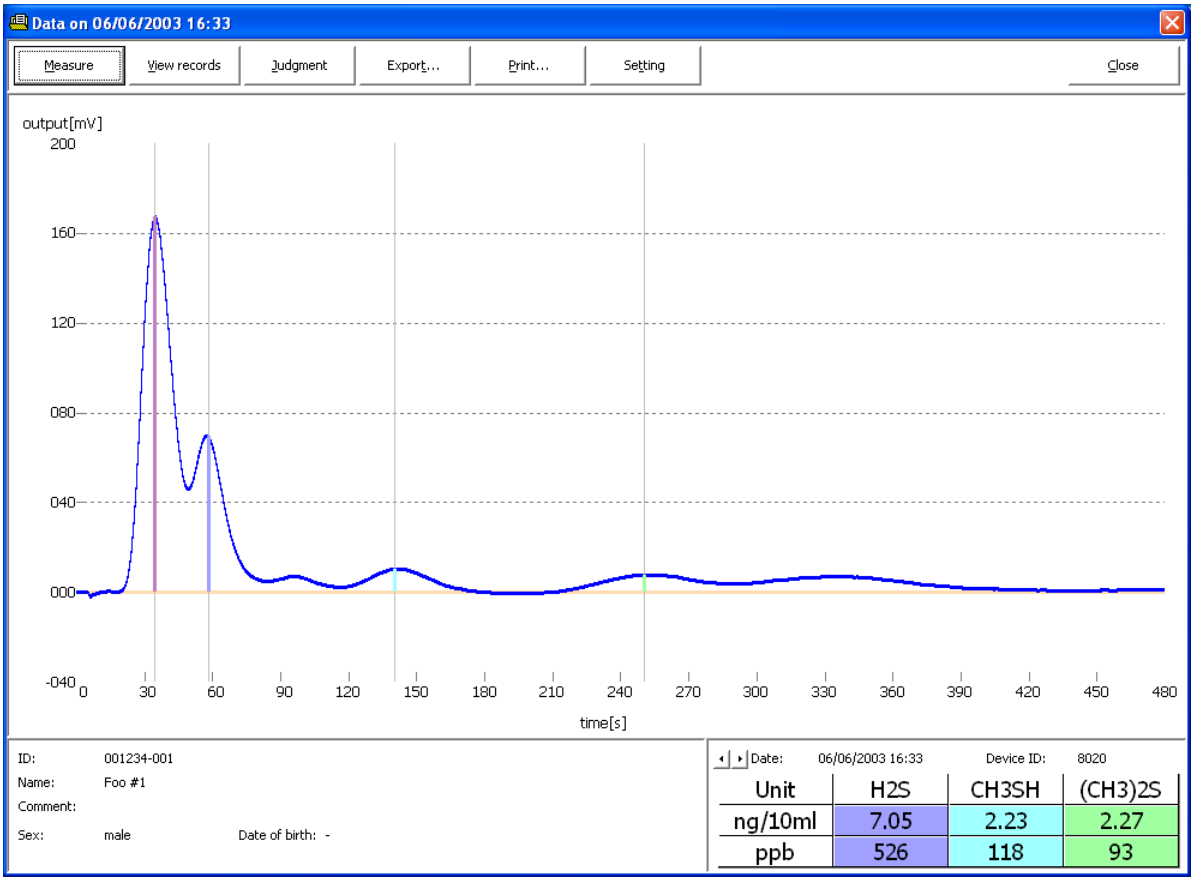
The unit for the measurement value will be the one chosen in the 'Setting display' process. The non-display gas concentration values are also saved.

For the details of file formats, refer to the appendix at the end of this manual.

Displaying Measurement Data

Each measurement data can be graphed.

Select the measurement date and time from the record list and click '**View details**' button. The measurement data is displayed.



Click **Measure** button when you start a new measurement.
The [Confirm] window is displayed. Confirm **ID**, **Name** and other fields, select **Device ID**, and click **OK**. Start the measurement following the procedure for the 'Measure.'

Exporting Measurement Data

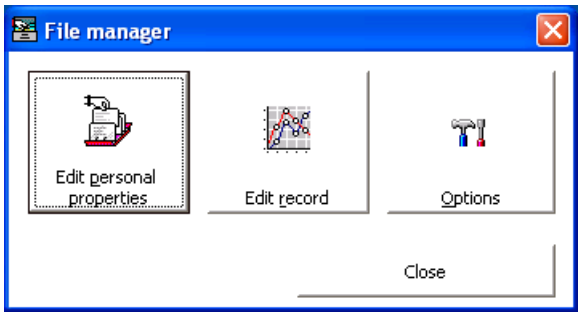
Sensor voltage data can be saved as a text file in CSV format.

Click **Export** button and specify the file name in the [Save as] window.

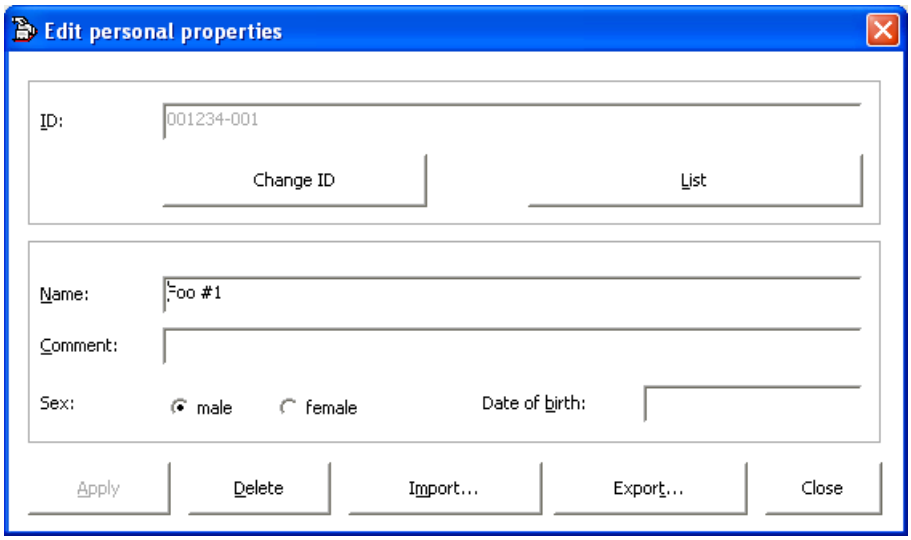
For details of the file formats, refer to the appendix at the end of this manual.

File Management

This function displays the records of the measurement data, edits the registered data, and alters the system settings. Click '**File manager**' button on the [OralChroma DataManager] window to show the [File manager] window.



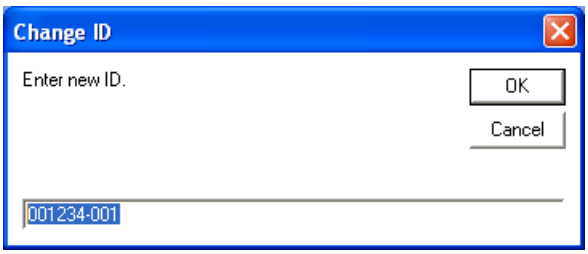
Editing Personal Properties



Clicking **List** button and selecting the appropriate data from the list opened.

Modify the displayed data and click **Apply** button. The process saves the modifications to the data.
Clicking **Delete** button deletes the personal properties and all measurement data of the test subject displayed.

To change the ID number, click '**Change ID**' button, input the new ID, then click **OK** button.



Importing and Exporting Personal Properties

The personal properties of the registered test subject can be saved as a text file in CSV format.
The program can also import personal properties from a text file in CSV format.

●Export
Click **Export** button and specify the file name in the [Save as] window.

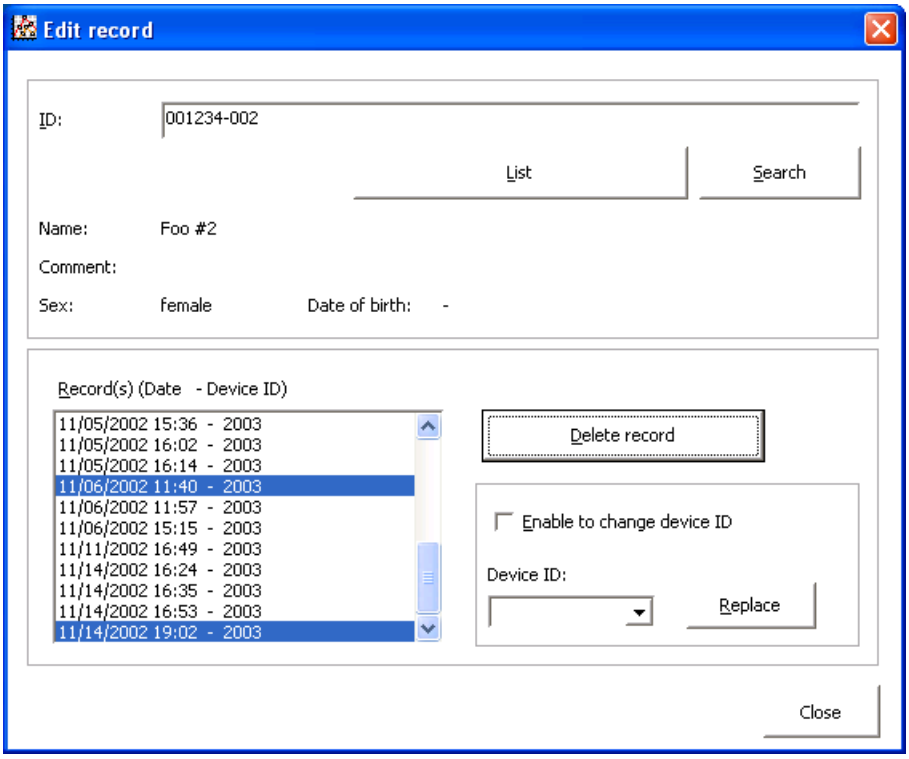
●Import
Click **Import** button and select the file to be imported in the [Open] window.

In the window shown '**Is the first line a title?**', clicking **Yes** button ignores the first line of the file.

If the imported personal properties are for an unregistered test subject, then register it as a new entry. If a test subject with the same ID has already been registered, the personal properties are updated while the measurement data remain as they are.

File formats are shared by import and export of personal properties. For details of the file formats, refer to the appendix at the end of this manual.

Editing Measurement History



Enter the ID number in the **ID** field and click **Search** button, or click **List** button and select one from the list displayed to specify the test subject.

Select the measurement data and click '**Delete record**' button. The selected data is deleted.

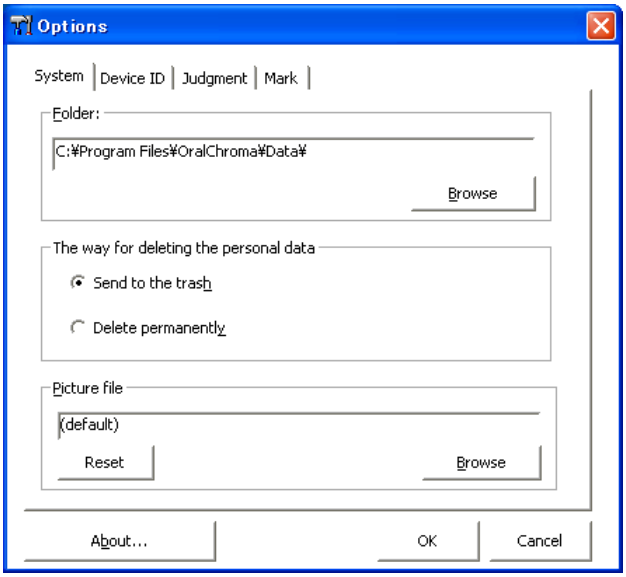
For your reference:
If you use multiple OralChroma and more than one device ID has been registered, you can change the device ID of the measurement data only.

Select the measurement data from the list and check the '**Enable to change device ID**'.
Select '**Device ID**' and click **Replace** button. The device ID is changed.

System Settings

This process enables the system settings required for program operation and restores deleted data.

Click **Options** button on the [File Manager] window to display the [Options] window.



[System] tab

■ Folder

You can specify the folder where the registered data and measurement data will be saved.

Enter the folder name in the entry box using a keyboard. Or, Click **Browse** button and select a folder from the [Browse for Folder] window.

■ The method for deleting personal data

This defines the method for deleting the test subject on the [Edit personal properties] window.

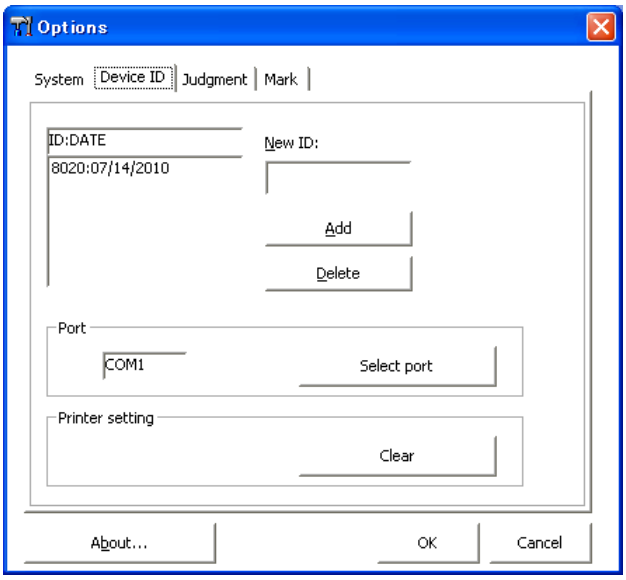
If '**Send to the trash**' is checked, all the personal properties and measurement data of the deleted test subject will be sorted in one folder with the ID number as the folder name and sent to the **Recycle Box**.
If you move the deleted folder to the [Folder] specified as above, the data are restored to the state before deletion.

If '**Delete permanently**' is checked, the data are deleted from the hard disk instead of being sent to the **Recycle Box**.

■ Picture file

Specify the image to be displayed on the [OralChroma DataManager] window by clicking **Browse** button.
Clicking **Reset** button changes the image back to the default.

[Device ID] tab



This process enables registration of the Device ID numbers to identify which device was used in the measurement when a user uses multiple OralChroma devices. Measurement is possible without registering the Device ID, but it is recommended that the ID be registered if you use only one OralChroma device.

■ Registering Device ID

Enter the Device ID consisting of not more than 4 digits in the '**New ID**' field using the keyboard, and click **Add** button. The registered number is listed with its registered date.

■ Deleting Device ID

Select the number you want to delete and click **Delete** button.

■ Port

The number of currently used communication ports is displayed.

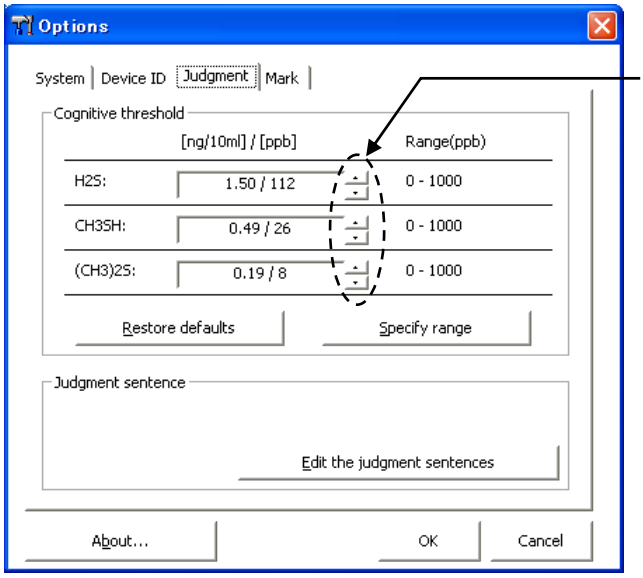
Click '**Select port**' button to change the communication port number.
The [Select port] window is displayed. Select the new port number and click **Apply** button.

■ Printer setting

When you change a printer for a new model and print it by this software, there is the case that a printer error extremely rarely happens.
In such a case, click '**Clear**' to reset the printer information of this software.
(This operation does not affect printer setting of Windows.)

[Judgment] tab

This defines the settings required for making judgments on the measurement value.



Up/down button

■ Cognitive threshold

Specify a threshold, a criterion for judgment, for each gas by clicking the up/down button.
Clicking '**Restore defaults**' button specifies the values as below:

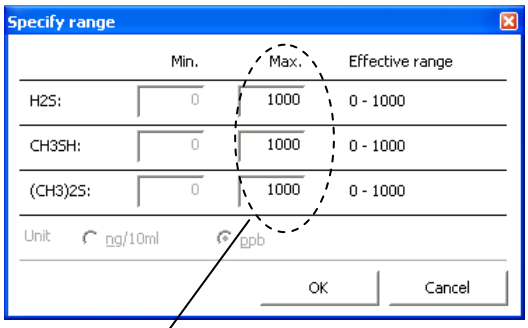
H2S = 112 ppb, CH3SH = 26 ppb, (CH3)2S = 8 ppb

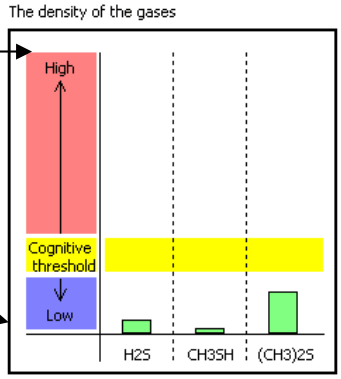
■ Specify range

Specify the maximum value to be displayed for the data with a value above the cognitive threshold in the '**The density of the gases**' field on the [Judgment] window.

The default is 1000 ppb. By making this value smaller, you can change the ratio to be displayed for the data with a value above the threshold.

Click '**Specify range**' button and enter the value in the **Max** field.
Click **OK** button, the change is saved.

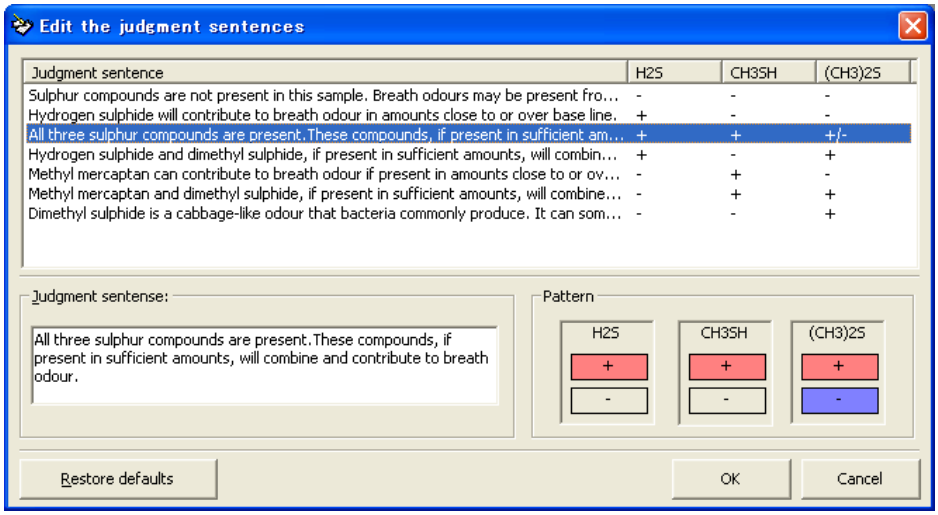




Minimum value is zero.

■ Editing judgment sentences

Click '**Edit the judgment sentences**' button. A window is displayed to edit the judgment sentences.



Default sentences are shown in page 17.

Select one sentence from the list. The registered sentence is displayed in the '**Judgment sentence**' field and the combination of gas concentrations is displayed in the **Pattern** field.
Every time you change the sentence, the sentence in the list is changed as well.

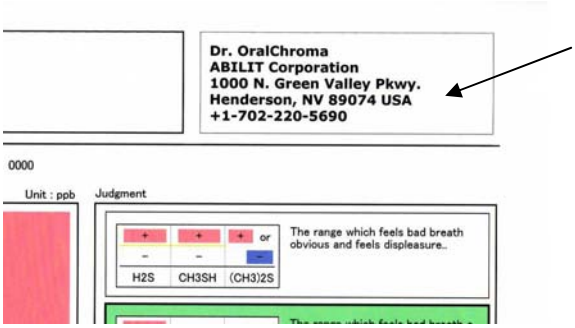
Click **OK** button when you complete changing sentences. Clicking **Cancel** button closes the dialog box without saving the changes.

Note
No new judgment sentence is added. The patterns specified cannot be changed.

[Mark] tab

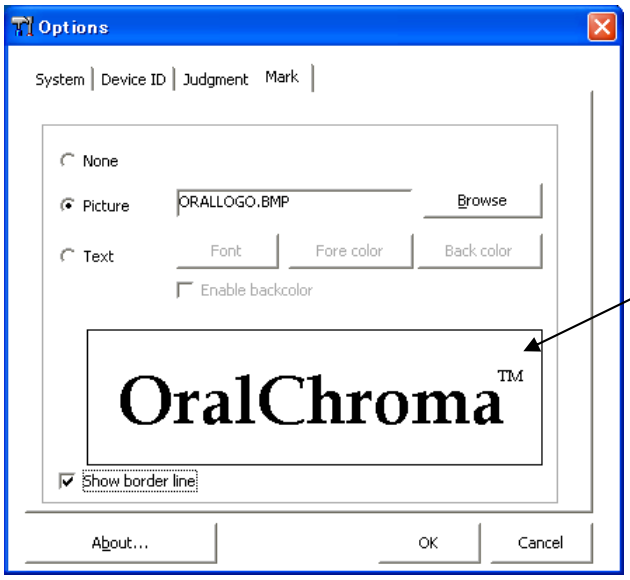
On the **Mark** tab, you can input your own clinic logo, information or message to display on the **User Information Column** of [**Judgment]** Window.

Judgment Window



User Information Column

OralChroma™ logo is shown in the **Input Box** on the **Mark** tab screen as an initial setting.



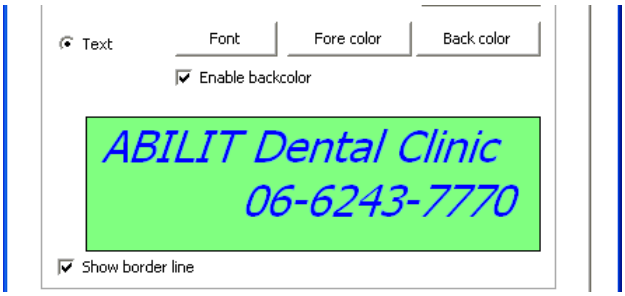
Input box

To insert image, click **Picture**, then click **Browse** button, and then select the picture file you want.

The default image size is 323×95 pixels. For larger or smaller size images, DataManager automatically resizes the picture to fit within the default image size.

To enter text, click **Text**, type the letter and character in the **Input Box**.

To change the font, style and size, click **Font** button, and then select the font, style and size you want. To change the color of font, click **Font Color** button, select the color you want from the color pallet, and then click **OK**. To change the color of background, check **Enable Back Color** box, and then click **Back Color** button, and then select the color you want.



Sample of 'Text'

Appendix

File Format

The formats are specified here for the CSV format files to be imported/exported.

Note
Some of the data files of OralChroma DataManager are text files. Do not open or edit the file using other applications such as text editors. The file may not be opened normally or OralChroma DataManager may not operate properly.
If you want to use the data in different applications, always output the file using the ‘Export’ function.

●List of personal properties of test subjects

Import

・Personal properties of one person per one line. Five items included. (If it has more than five items, the items after the fifth will be ignored.)
・Items ⇒ ID, Name, Comment, Sex and Date of birth, followed by the line feed code

Note
The line feed code consists of two characters of ASCII code 0D(h) + 0A(h) [CR+LF]. With any other code, the items cannot be correctly identified.

Export

・Personal properties of one person per one line. Eight items included.
・ID, Name, Comment, Sex, Date of birth, Date of first measurement, Date of last measurement, and number of measurements, followed by the line feed code

●Measurement history of the test subject

Export

1st to 5th line: each item of personal property
6th line: blank
Lines after the 6th line: measurement date/time, device ID, gas concentration of H2S, gas concentration of CH3SH, and gas concentration of (CH3)2S

●Measurement data (sensor voltage)

Export

1st to 5th line: Each item of personal property

6th line: blank
7th line: measurement date/time
8th line: device ID
9th line: blank
10th line: title ("time[s]","output[V]","difference with the first 'output' value[V]")
11th to 4811th: data
4812th to 4876th: calculated data
"DATA14" = H2S concentration [ppb]
"DATA15" = CH3SH concentration [ppb]
"DATA16" = (CH3)2S concentration [ppb]

Input the measurement result

You input the gas density of measurement result displayed by 'OralChroma' and can save it as a measurement record. By the measurement result that was not stored by an error or the communication error of the assembly operation, you have indication and printing of the judgment window.

Note
You cannot reproduce the chromatogram which failed in the reception.

Operation

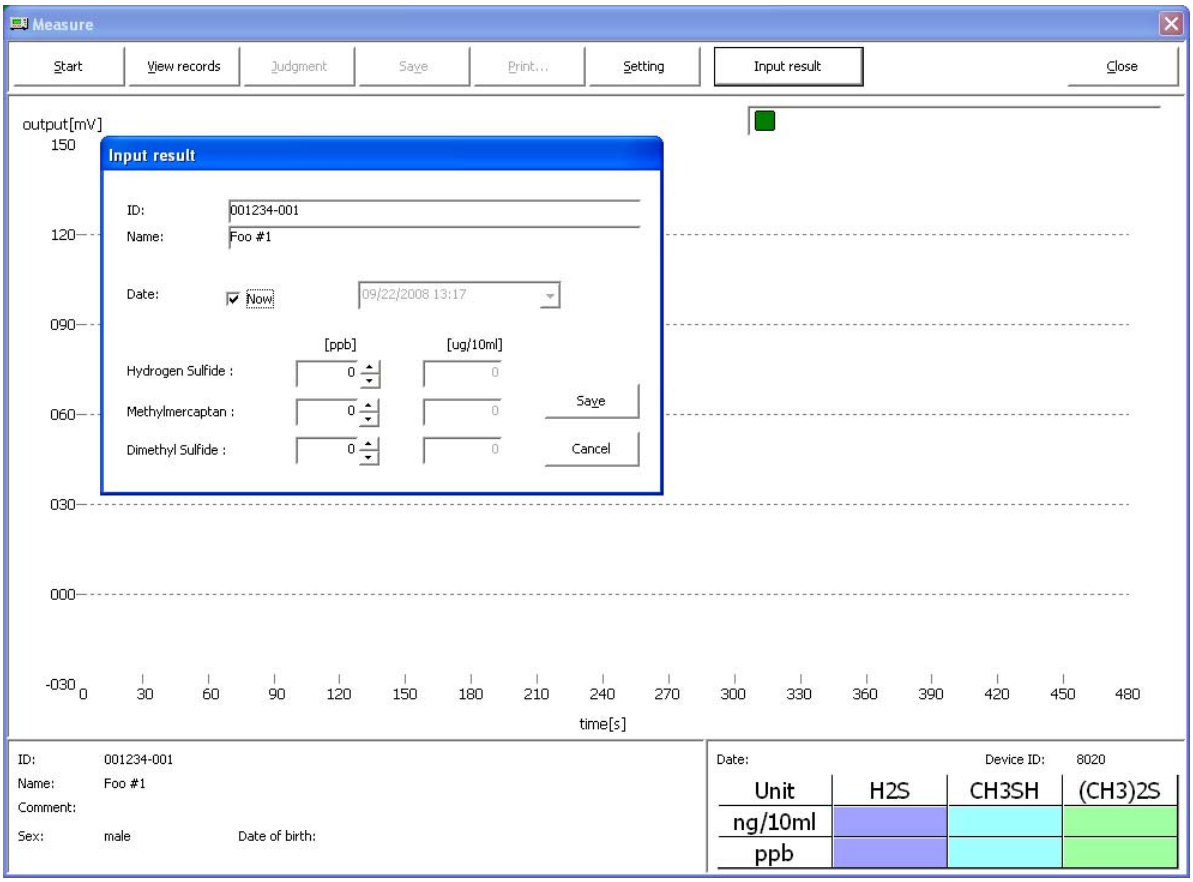
(1) Save the measurement data on the OralChroma.
(2) Push the 'PAGE' key to display page 4 of the 'ppb' unit.

Note
Please refer to 'Instruction Manual' about operation of the OralChroma.



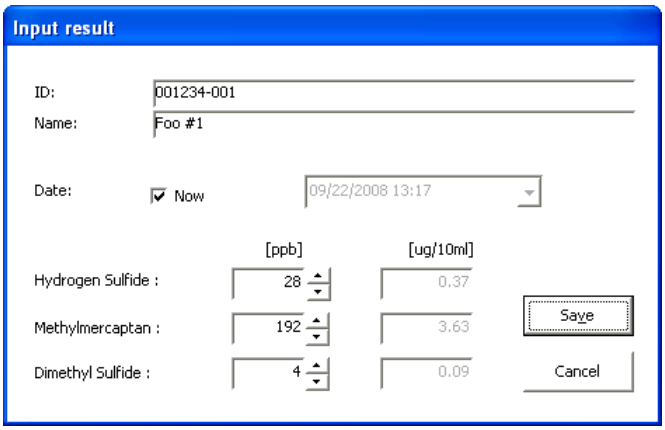
An example of a measurement **result**

(3) Click **Input result** on the measurement window.



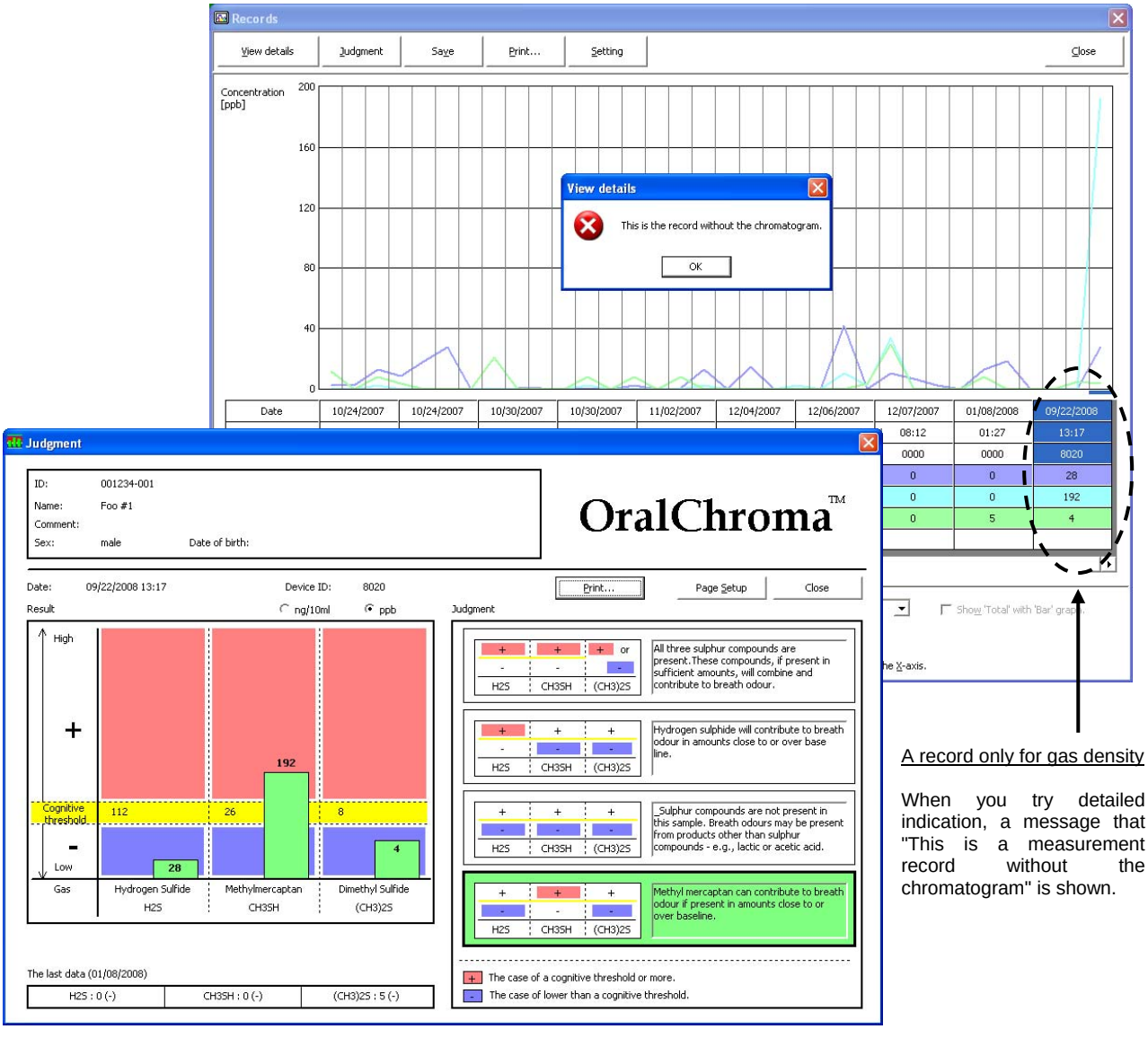
Note
When the measurement is finished normally, and a measurement result and chromatogram are displayed by a measurement window, you cannot click "the input of the result".

(4) Choose the date and time.
(5) Input numerical value of gas density displayed by the OralChroma.



(6) Click **Save** to store the result that you input for a measurement record.

You can watch the measurement result that you stored with a history and the window of the judgment in this way.



A record only for gas density

When you try detailed indication, a message that "This is a measurement record without the chromatogram" is shown.

Data conversion software

The format of the DataManager data file varies depending on its version and compliant operating system.

When you transfer the data to the other computer running under a different operating system from the original or upgrade a version of operating system, use attached **Data Conversion Tool** to convert data format.

The version of the *OralChroma DataManager* to convert the data

2.x(for Windows) => 3.x(for Windows)

2.x(for Windows) => 1.x(for Macintosh)

3.x(for Windows) => 1.x(for Macintosh)

1.x(for Macintosh) => 3.x(for Windows)

Installation and execution

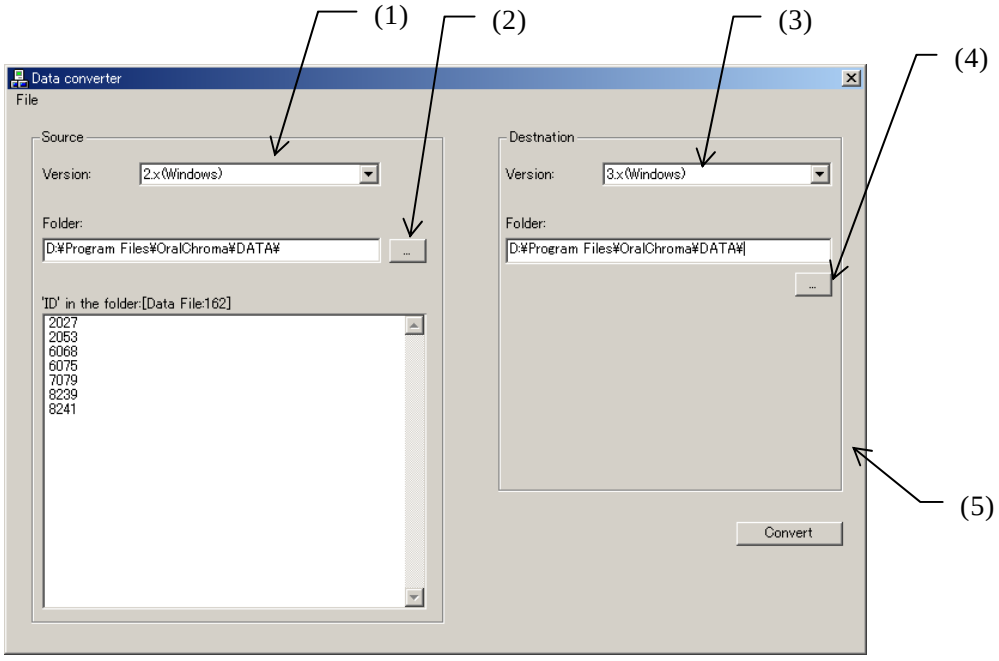
This software is installed in the same folder at the time of installation of *OralChroma DataManager*.

Run the **OCDMConv.exe** by double-clicking on the file name in the Windows Explorer.

Operation

(7) Choose the version of source data.
(8) Enter the folder path of source data. Or choose on the dialog box by clicking '**...**' button.
(9) Choose the version of destination data.
(10) Enter the folder path of destination data. Or choose on the dialog box by clicking '**...**' button.
(11) Click **Convert** button.

Note:
If you select the same folder for Source and Destination data, The Data Conversion Tool automatically creates "Backup" sub-folder and save the original data.





ABIMEDICAL CORPORATION

4-8-18, Imazukita, Thurumi-ku, Osaka-shi, Japan, 538-0041

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