

Dear GlucoNavii® DMS Owner,

Thank you for choosing GlucoNavii® DMS. GlucoNavii® DMS is an important tool to help you better manages your diabetes. Important steps for using the software are inside this guide. Please read it carefully.

If you have questions, we are here to help.

Please contact SD Biosensor, Inc.

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Website: [www.sdbiosensor.com](http://www.sdbiosensor.com)

We offer assistance 24 hours a day, 365 days a year in many languages. You can also visit [www.sdbiosensor.com](http://www.sdbiosensor.com) for diabetes management tools.

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## CHAPTER 1: ABOUT THIS PRODUCT

### 1 About GlucoNavii® DMS

GlucoNavii® DMS is PC software. The software provides users to below features.

- upload the data from blood glucose meters
- stores and display the data
- analyze the data by graphs

The features can make users and healthcare professionals to better control and manage blood glucose.

### 2 Hardware and software requirement

#### 2.1 Software operating system

- Microsoft® Windows Vista
- Microsoft® Windows 7
- Microsoft® Windows 8
- Microsoft® Windows 10

#### 2.2 Hardware requirement

- Minimum hardware requirements

CPU	RAM	HDD	Display	Other
800 MHz	512 MB	50 MB	1024 × 768	- USB port - USB cable

- Interface
  - printers
  - monitors
  - keyboard
  - mouse

#### 2.3 Compatible device

- SD CodeFree™ Blood Glucose Meter
- SD CodeFree™ Plus/Plus NFC Blood Glucose Meter
- SD GlucoNavii® Mentor Blood Glucose Meter
- SD GlucoNavii® Link0.3 Blood Glucose Meter
- SD GlucoNavii® GDH Blood Glucose Meter
- SD GlucoNavii® NFC Blood Glucose Meter
- SD GlucoNavii® Mentor NFC/Voice/Voice NFC Blood Glucose Meter
- SD GlucoNavii® Link0.3 NFC/Voice/Voice NFC Blood Glucose Meter

### 3 Safety

#### 3.1 Intended use

GlucoNavii® DMS is PC-based software for use in the home and professional settings to help people with diabetes and their healthcare professionals in review, analysis and evaluation of glucose test results for an effective diabetes management.

It is intended for use as an accessory to compatible SD Biosensor brand blood glucose meter.

#### 3.2 Warnings

- The software does not recommend your therapy instruction.
- Never make significant changes to your diabetes control program or ignore physical symptom without consulting with your healthcare professional. Always consult your physician or healthcare professional before making any adjustments with the glucose data.
- To avoid the possibility of electrical shock, never perform a blood glucose test while the meter is connected to the computer.

## CHAPTER 2: BEFORE STARTING GLUCONAVII® DMS

### 1 Before installation

Before installing the software, you must follow the instructions below for cybersecurity. The instructions help to protect against cyber security threats.

- Prior to installing and using the software, scan your computer with anti-virus and anti-spyware programs from a trusted source.
- Install, set up and enable adequate anti-virus software.
- Maintain up-to-date anti-virus software.
- Make sure that your OS has the latest security updates applied.
- Turn on your PC's firewall.
- Windows Vista, 7, 8, 10 or higher has a built-in firewall that is turned on by default.

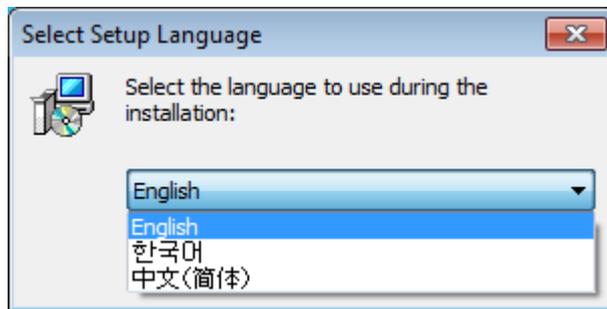
If you have any cyber-security-related concern or problem, please contact our customer support on the phone or via e-mail at the contacts listed below.

Toll Free No.: 1-+31-300-0400 / Website: [www.sdbiosensor.com](http://www.sdbiosensor.com)

## 2 Installation

Please read the following instructions to install the software.

- 2.1 Visit website ([www.sdbiosensor.com](http://www.sdbiosensor.com)). Download the software setup file.
- 2.2 Double-click "GlucoNavii DMS Setup.exe" file.
- 2.3 Display "Installer Language". Click ▼ drop-down icon and select the preferred language from the list. Click "OK" to start the installation.

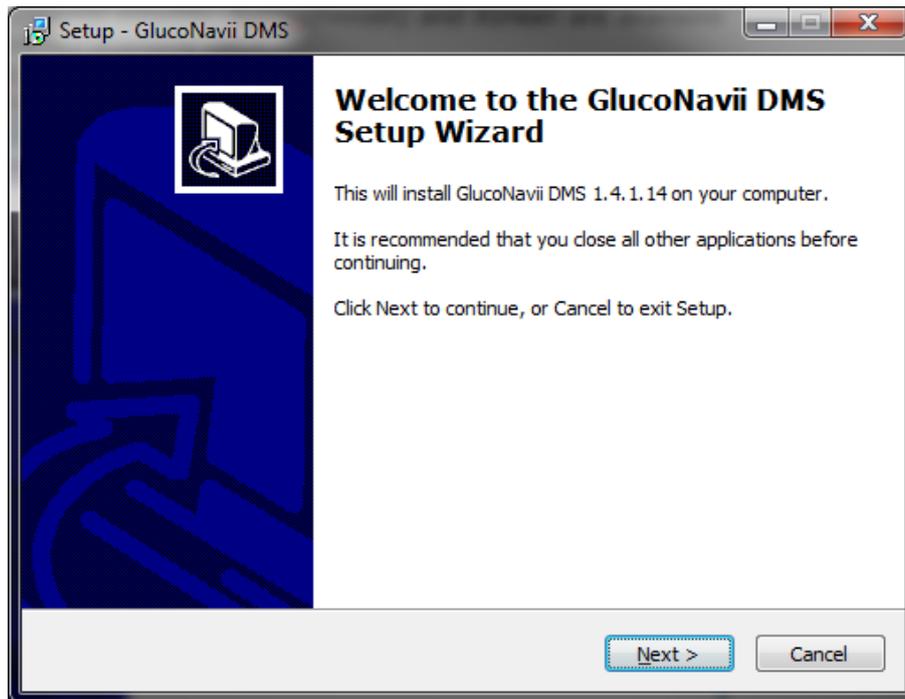


<Figure 1> Setup - Installer Language

### **NOTE**

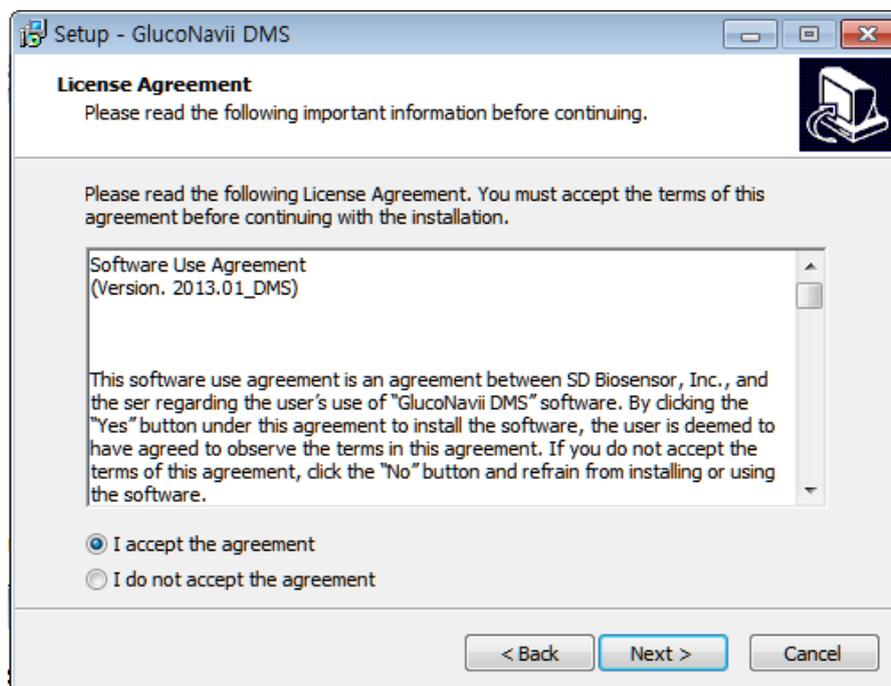
Only English, Finnish, simplified Chinese and Korean are available. Other languages are not available yet.

2.4 Display setup wizard. Click “Next” to continue.



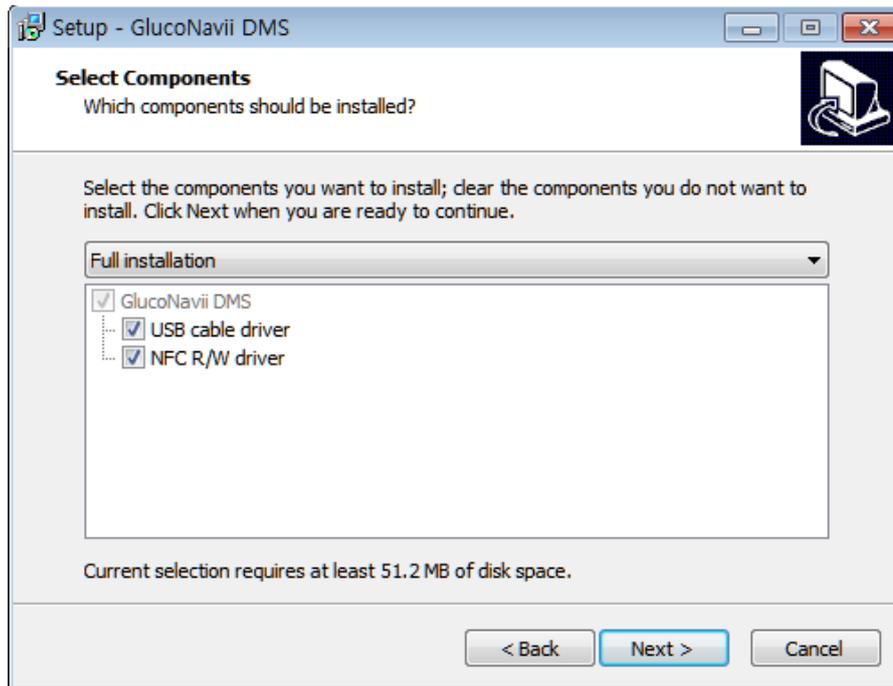
<Figure 2> Setup – Wizard

2.5 Display “License Agreement”. Check “I accept the agreement” and then click “Next”.



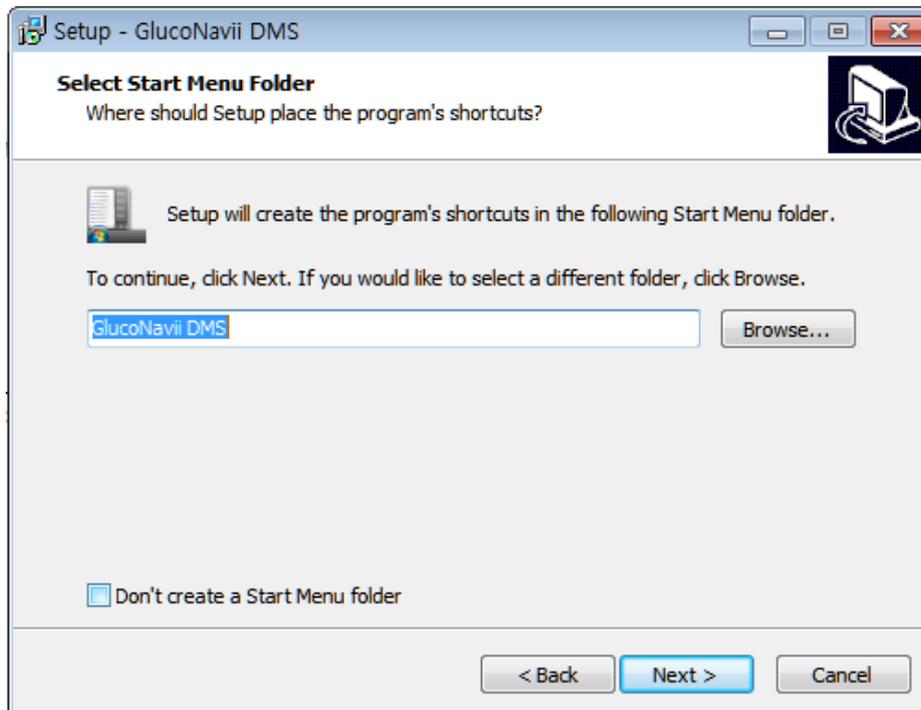
<Figure 3> Setup – License amendment

- 2.6 Display “Select Components”. Click ▼ drop-down menu icon. Select full or custom installation and then click “Next”.



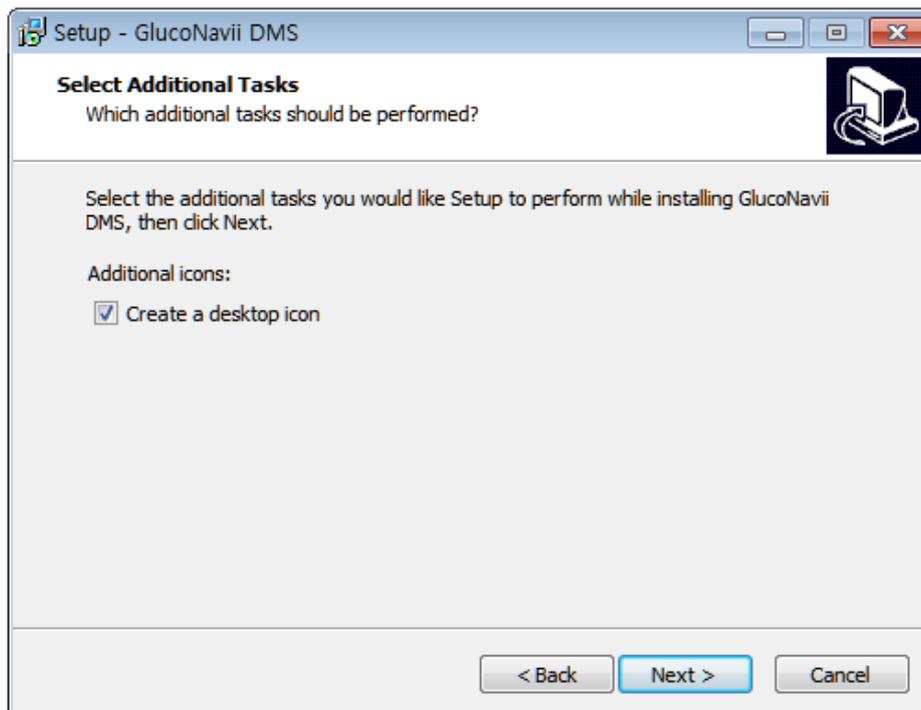
<Figure 4> Setup – Select components

- 2.7 Display "Setup - GlucoNavii DMS".  
Designate the folder to place the shortcut. Check if create a Start Menu folder or not.



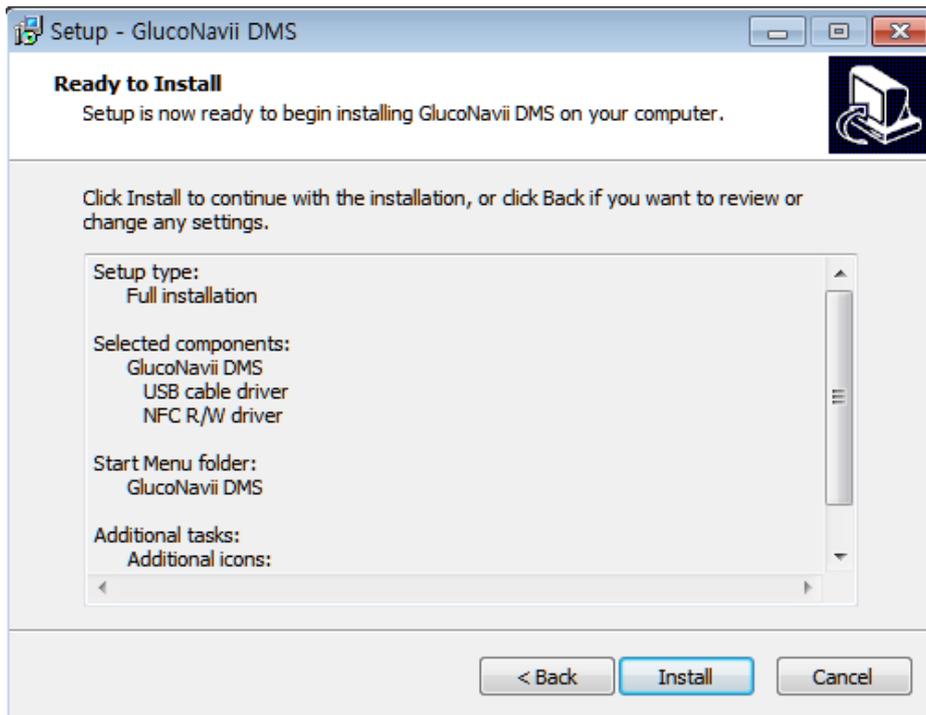
<Figure 5> Setup – Select start menu folder

Check "Create a desktop icon" if want to create a desktop icon.  
And then, click "Next".



<Figure 6> Setup – Create a desktop icon

2.8 Click “Install” to continue the installation.



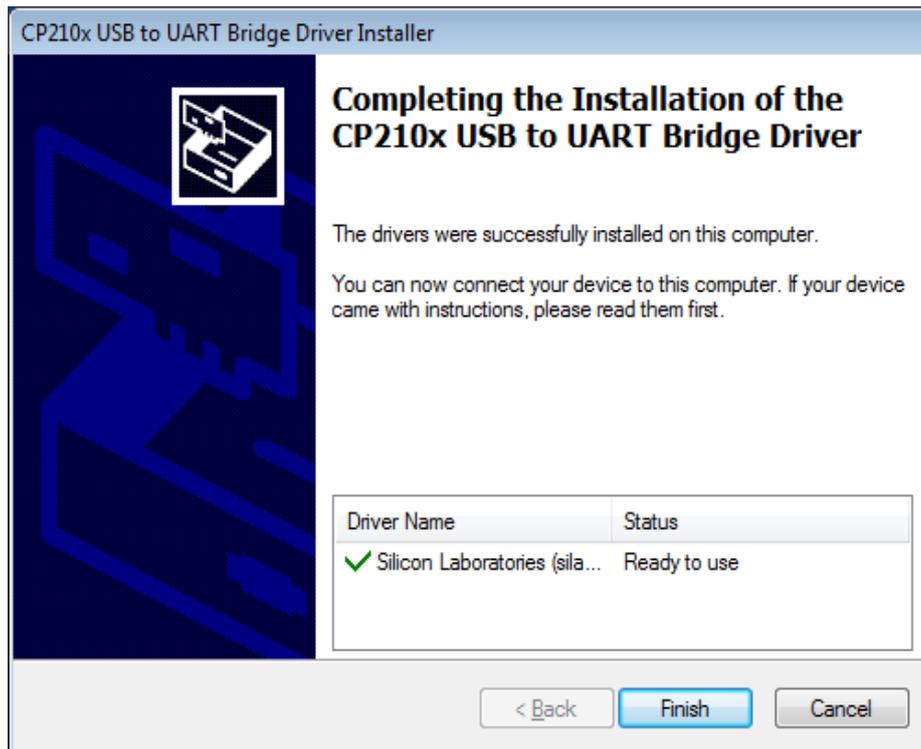
<Figure 7> Setup – Ready to install

2.9 Automatically pop up the driver installer. Click “Next” to install the driver.



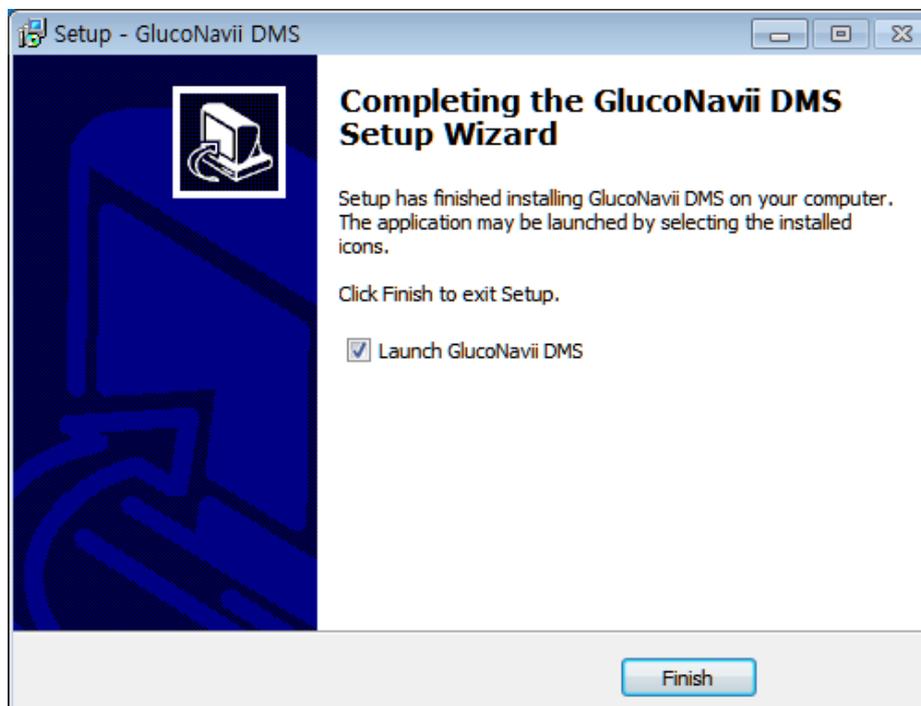
<Figure 8> Driver installer

2.10 Click “Finish” to complete the driver installation.



<Figure 9> Driver installer - Completion

2.11 Complete successfully the installation. Launch the software if check “Launch GlucoNavii DMS” and then click “Finish”.



<Figure 10> Setup - Completion

### 3 Connection between a blood glucose meter and PC

Connect the meter to PC with USB cable according to the following steps.

3.1 Make sure that power off the meter.

3.2 Connect the USB cable and USB port on PC.

For the blood glucose meter to support USB communication, connect the meter and USB port on PC by using SD Communication Cable as USB cable.



<Figure 11> Connection between the meter and PC by using SD Communication Cable

For the blood glucose meter to support NFC function, connect the meter and USB port on PC by using SD Communication Cable or connect NFC Reader/Writer and USB port on PC USB cable.



<Figure 12> Connection between the meter and PC by using NFC Reader/Writer

#### **NOTE**

USB cables are the optional accessories. Please contact SD Biosensor, Inc. to order. Toll Free No. : +31-300-0400

### 4 Uninstallation

4.1 Click Start menu → Control Panel → Programs → Programs and Features.

4.2 Select GlucoNavii® DMS and then click "Remove" to uninstall.

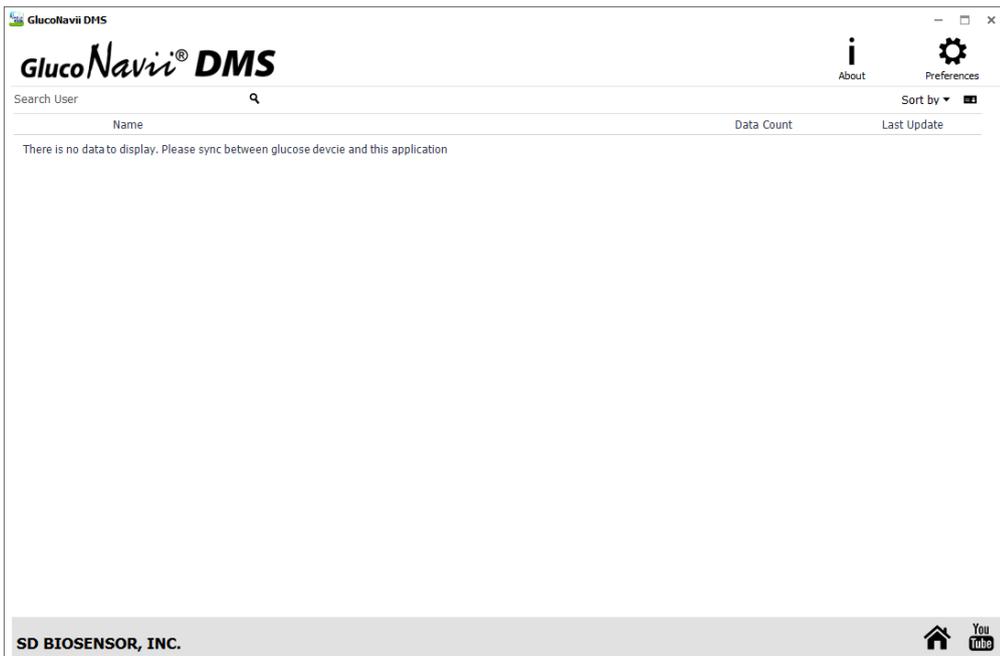
## CHAPTER 3: START GLUCONAVII® DMS

### 1 Import the data from the meter

1.1 Double-click desktop icon. The software is launched.



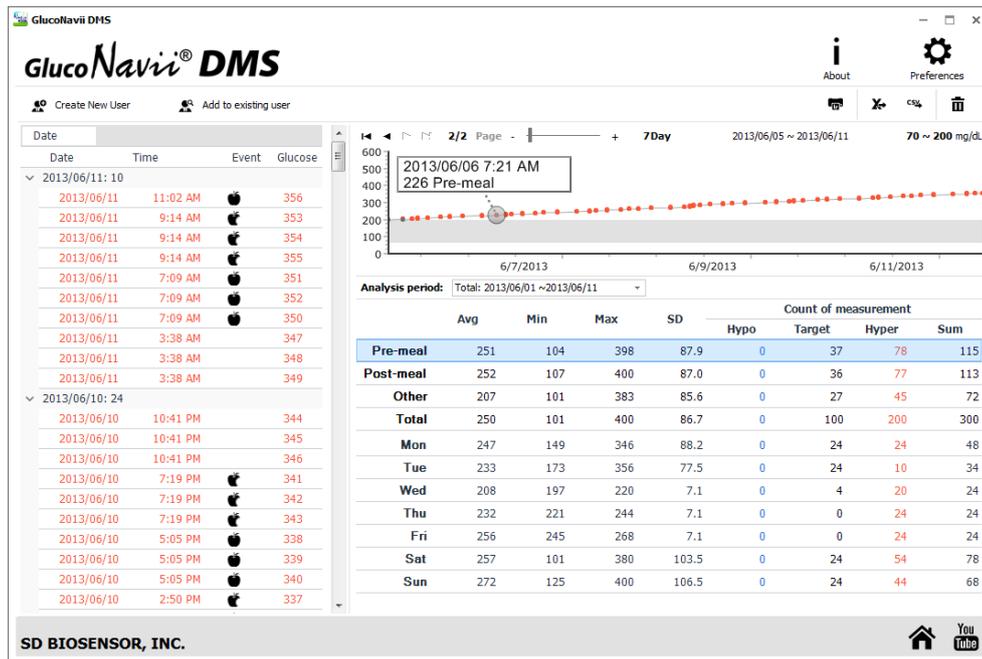
<Figure 13>Desktop icon



<Figure 14>GUI before data transfer

1.2 Push the power button on the meter.

## 1.3 Automatically the data from the meter are transferred.



<Figure 15>GUI after data transfer

### NOTE

- While the meter is connected to the PC, it is unable to perform a blood glucose test.
- If the cable port got ESD<sup>1</sup> while data transfer, time delay may happen. After then, the meter re-transmits the data automatically.

<sup>1</sup> Electrostatic discharge, a sudden flow of electricity between two electrically charged objects caused by contact, an electrical short or dielectric breakdown

## 2 Menu explanation

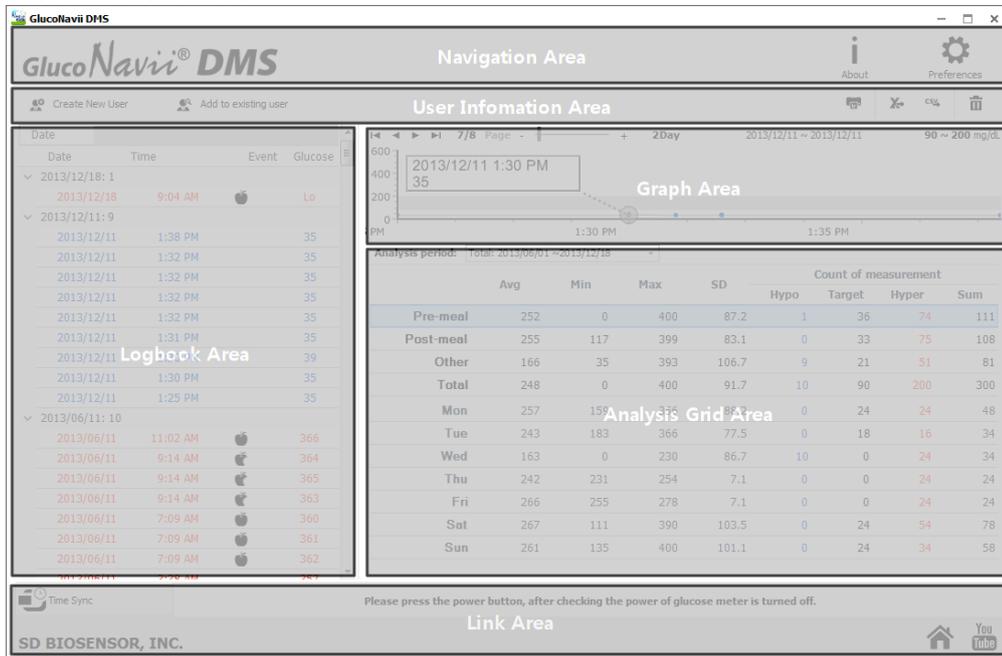
The software provides two modes.

### 2.1 User Management View Mode



<Figure 16> User Management View Mode

### 2.2 User Data View Mode



<Figure 17> User Data View Mode

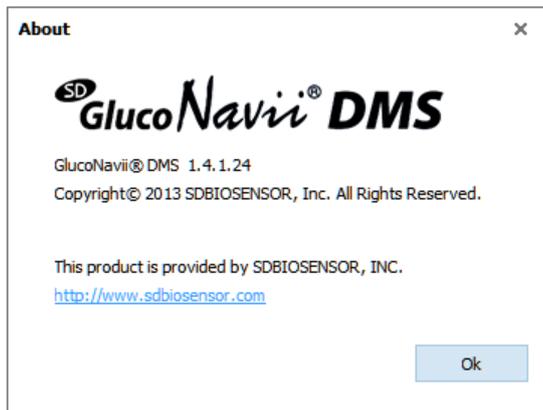
## 3 About & Preference

### 3.1 About

About dialog provides the software version, copyrights and SD Biosensor homepage URL.



<Figure 18> About



<Figure 19> About dialog

## 3.2 Preference

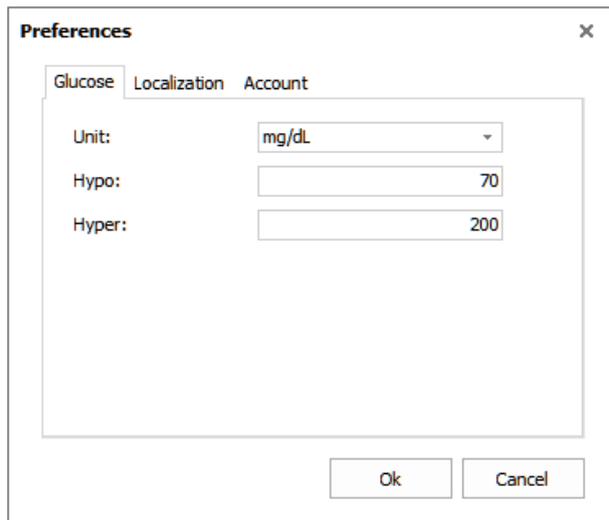
Preference enable user to set glucose, localization and account.



<Figure 20> Preference

### 3.2.1 Glucose

User can set the unit of blood glucose (mg/dL or mmol/L) and target glucose range.



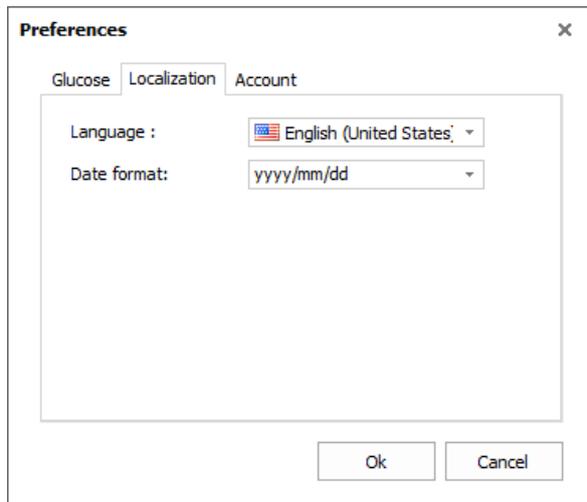
<Figure 21> Preference – Glucose

#### **NOTE**

The unit of blood glucose, mg/dL, and target glucose range (Hypo/Hyper: 70/200) are default. Users can also change the unit to mmol/L if want.

### 3.2.2 Localization

Users can choose the language and date format.



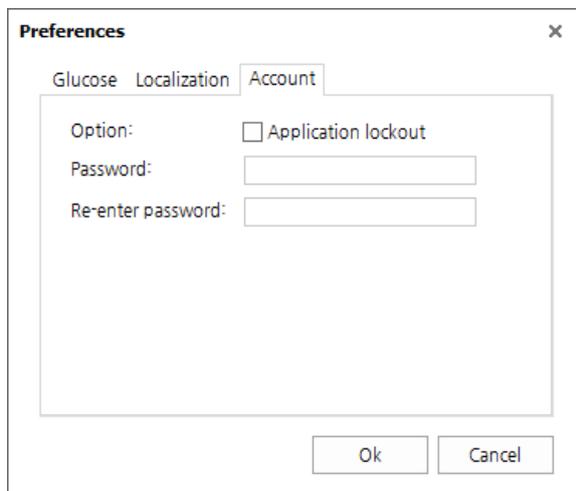
<Figure 22> Preference – Localization

#### **NOTE**

Only English, Finnish, simplified Chinese and Korean are available. Other languages are not available yet.

### 3.2.3 Account

Application lockout is provided as option. So, the users can set password.



<Figure 23> Preference - Account

## CHAPTER 4: FEATURES

### 1 User management

The software provides user management to users.

#### 1.1 Create new user

After data transfer, click “Create New User”.



<Figure 24> Create new user

User information dialog pops up. You can enter the user information and click “Ok”.

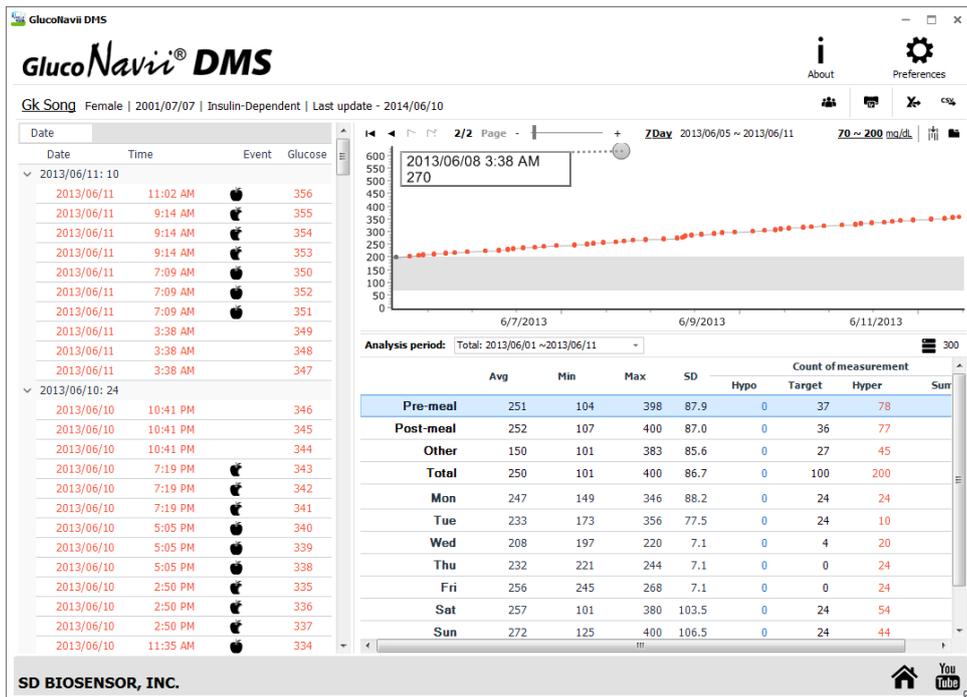
The image shows two side-by-side screenshots of the 'User Information' dialog box. The left screenshot shows the form with red exclamation marks next to the First name, Last name, Birthdate, Height, Weight, and Diabetic since fields, indicating they are required. The right screenshot shows the form with data entered: First name: User, Last name: SD, Gender: Female, Birthdate: 2014-10-11, Height: 182 cm, Weight: 80 kg, Diabetic type: Insulin dependent, Diabetic since: 2000-12-7, Target blood glucose: 70 - 200 mg/dL, and Device list: NewSD Glucose Meter.

<Figure 25> User Information

#### NOTE

Exclamation marks are essential items. User registration is not completed if all essential are not entered.

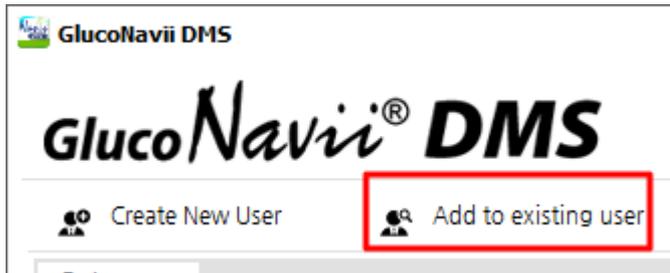
After the user registration, transferred data will appear.



<Figure 26>Data view mode

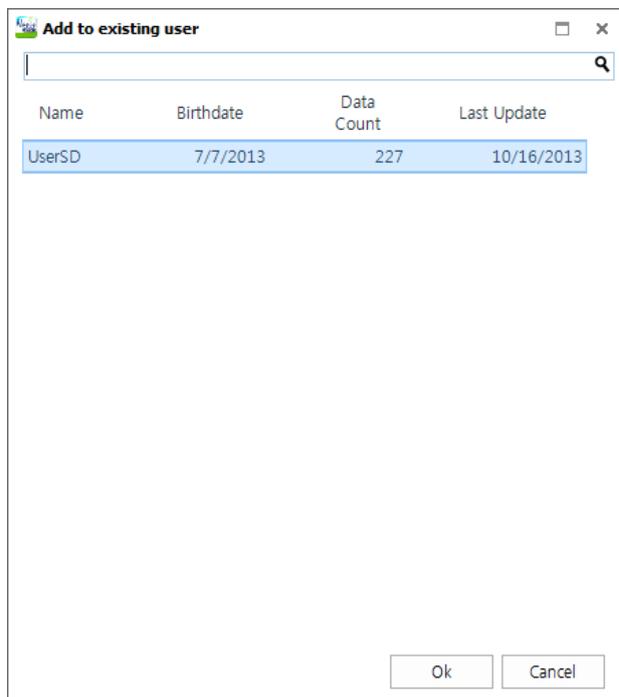
## 1.2 Add to existing user

Use the existing user profile after data transfer.



<Figure 27> Add to existing user

1.2.1 Search the existing user's name. Select the user and click "Ok".



<Figure 28> Add to existing user dialog

After then, transferred data is added to existing user's data.

## 1.3 User management

Several function icons are displayed next to the each user name.



<Figure 29> User management screen

So, you can view the selected user's data, export the data, edit the user information or delete the user profiles.

<Table 1> User management icon

icon	Name	Description
	Data	View the selected user's data. The user data view mode will appear
	Export	Export the selected user's data.
	Edit	Edit the selected user information.
	Delete	Delete the selected user profile.

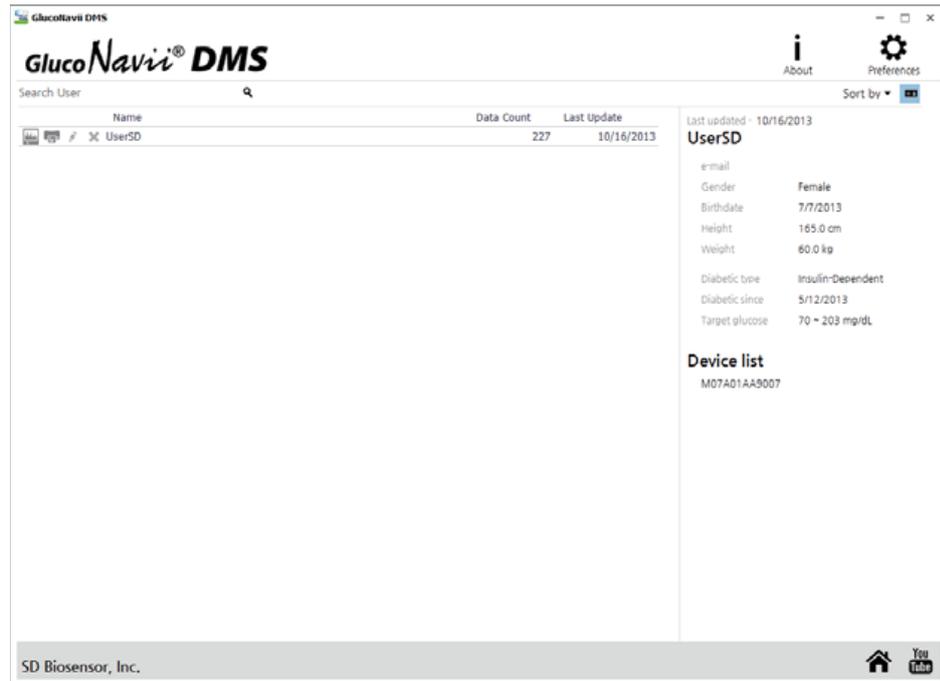
You can also check the user information or sort the users.

### 1.3.1 Check user information

Click  user information icon. The user information will be displayed in the right side.

About		Preferences	
		Sort by	
Data Count	Last Update		
227	10/16/2013		

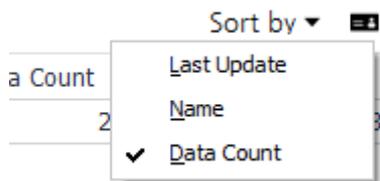
<Figure 30> User information icon



<Figure 31> User information

### 1.3.2 Sort user column

Click "Sort by". You can sort user column by last update, user name or data count.



<Figure 32> User information – Sort by

## 2 Logbook

The data are displayed, are grouped and sorted according to the latest date.

Date			
Date	Time	Event	Glucose
10/14/2013: 1			
10/14/2013	1:20 PM		148
9/25/2013: 3			
9/25/2013	7:15 PM		Lo
9/25/2013	7:14 PM		41
9/25/2013	7:13 PM		55
7/25/2013: 15			
7/25/2013	5:56 PM		108
7/25/2013	5:56 PM		103
7/25/2013	5:53 PM		101
7/25/2013	5:52 PM		99
7/25/2013	5:51 PM		97
7/25/2013	5:49 PM		95
7/25/2013	5:48 PM		100
7/25/2013	5:38 PM		285
7/25/2013	5:37 PM		308
7/25/2013	5:35 PM		293
7/25/2013	5:33 PM		294
7/25/2013	5:32 PM		283
7/25/2013	5:30 PM		287
7/25/2013	5:29 PM		279
7/25/2013	5:27 PM		279

<Figure 33> Logbook

## 2.1 Group column

Drag and drop the column from “column header” to column group panel.

Date	Time	Event	Glucose
2011/09/09	7:03 PM		492

<Figure 34> Group column

For example, the data is grouped by time if time is selected to column group panel.

Time	Date	Time	Event	Glucose
7:03 PM: 1	2011/09/09	7:03 PM		492
7:02 PM: 1	2011/09/09	7:02 PM		472
7:01 PM: 1	2011/09/09	7:01 PM		484
7:00 PM: 1	2011/09/09	7:00 PM		506
6:59 PM: 1	2011/09/09	6:59 PM		495
6:58 PM: 1	2011/09/09	6:58 PM		479
6:57 PM: 1	2011/09/09	6:57 PM		490
6:56 PM: 2	2011/09/09	6:56 PM		499
	2011/09/09	6:56 PM		486
6:55 PM: 1	2011/09/09	6:55 PM		484
6:54 PM: 3	2011/09/09	6:54 PM		477

<Figure 35> Logbook display after grouping column

## 2.2 Remove column group

Drag and drop the column to remove from “column group panel” to “column header”.

Date	Time	Event	Glucose
2011/09/09	7:03 PM		492

<Figure 36> Remove column group

## 2.3 Sort column

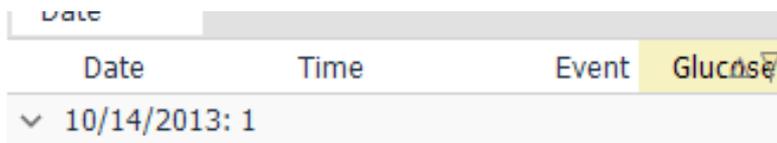
Click  icon after placing the mouse pointer to the column header. You can sort the data by descending or ascending order sequence. Only date and time is available.



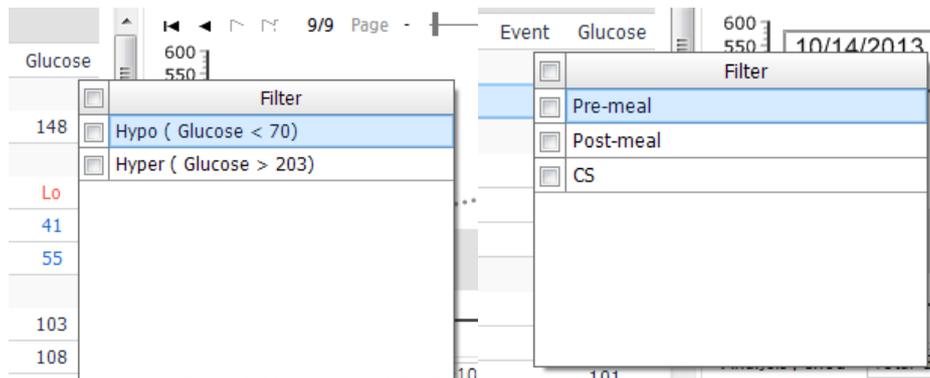
<Figure 37> Sort column

## 2.4 Filter column

Click  icon after placing the mouse pointer to the column header. Provide the filter options; glucose or event.



<Figure 38> Filter column



<Figure 39> Glucose filter option

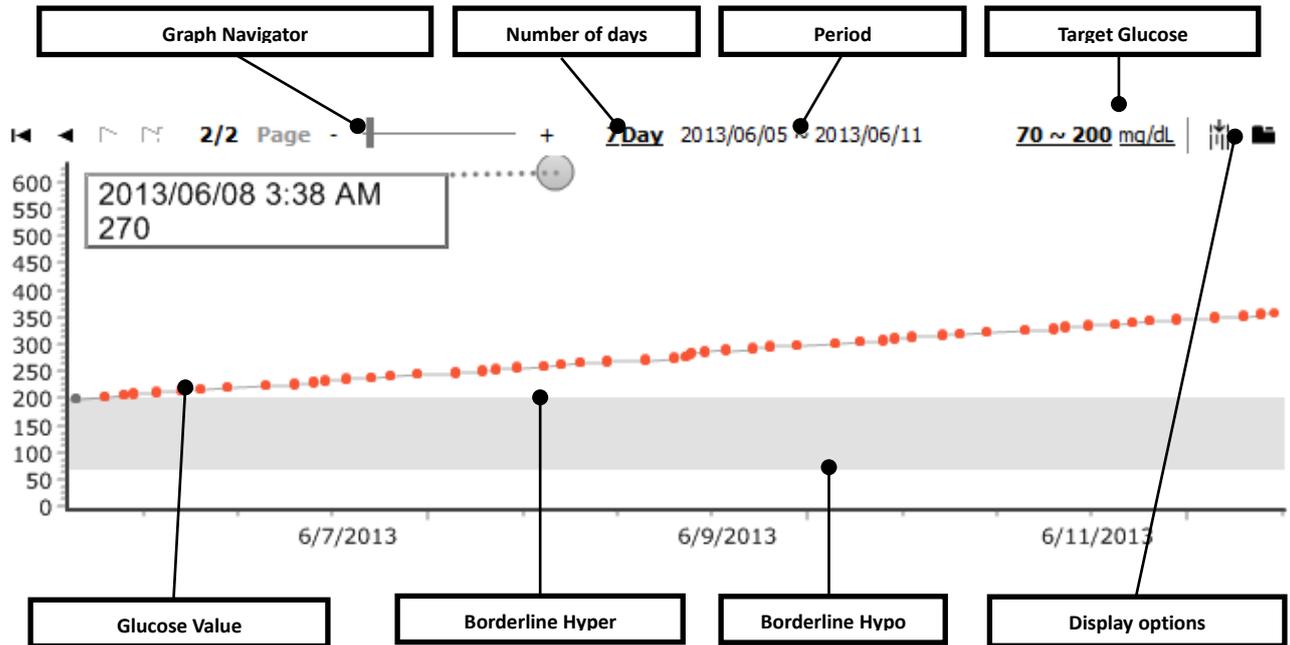
<Figure 40> Event filter option

### NOTE

If you select CS (Control Solution) as event filter option, filter out all the control solution test results.

### 3 Graph

The graph shows the data for a selected period. Also, it displays glucose target range to help you easily track the data.



<Figure 41> Graph

### 3.1 Change the target glucose range

You can change the target glucose range.

#### 3.1.1 Preference

For unregistered users, click “Preferences”. And then, set the target glucose range.

The screenshot shows a 'Preferences' dialog box with three tabs: 'Glucose', 'Localization', and 'Account'. The 'Glucose' tab is selected. It contains three input fields: 'Unit' (a dropdown menu showing 'mg/dL'), 'Hypo' (a text input field containing '70'), and 'Hyper' (a text input field containing '203'). At the bottom of the dialog are 'Ok' and 'Cancel' buttons.

<Figure 42> Change the target glucose range for unregistered users

#### 3.1.2 User information

For registered users, click the borderline. And then, set the target glucose range in the user information dialog.

The screenshot shows a 'User Information' dialog box. It contains several sections:
 

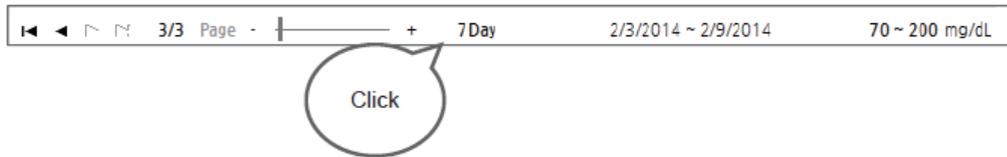
- First name:** User
- Last name:** SD
- e-mail:** (empty field)
- Gender:** Female
- Birthdate:** 2014, 10, 11
- Height:** 182.0 cm
- Weight:** 80.0 kg
- Diabetic type:** Insulin dependent
- Diabetic since:** 2009, 2, 11
- Target blood glucose:** 70 - 200 mg/dL
- Device list:** A table with two columns: 'Product' and 'Serial no'. The first row is 'SD GlucoNavii NFC' with serial number 'M07B00AA0032'.

 At the bottom are 'Ok' and 'Cancel' buttons.

<Figure 43> Change the target glucose range for registered users

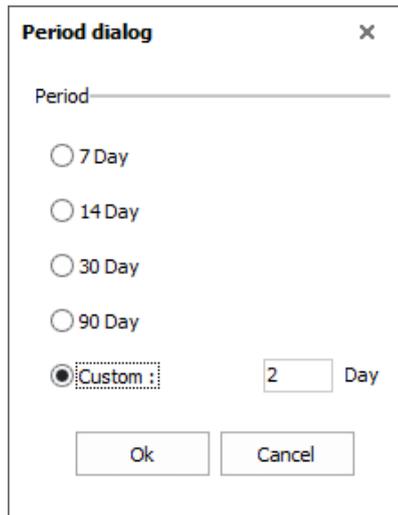
## 3.2 Change graph period

Drag the graph navigator bar or click the number of days.



<Figure 44> Graph navigator

Graph period dialog will pop up. You can select the period (7, 14, 30, 90 or customized days).



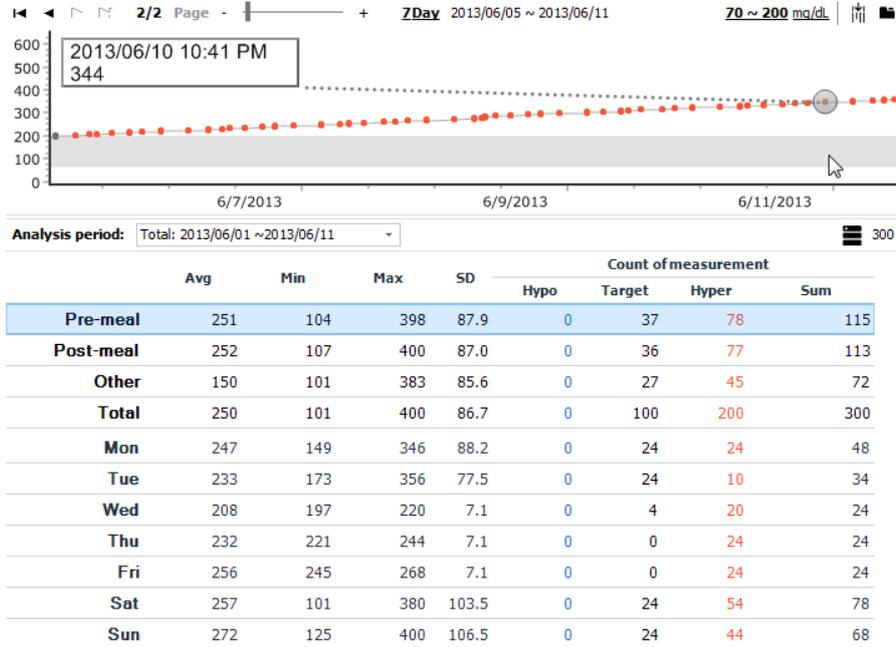
<Figure 45> Graph period dialog

### 3.3 Change graph view mode

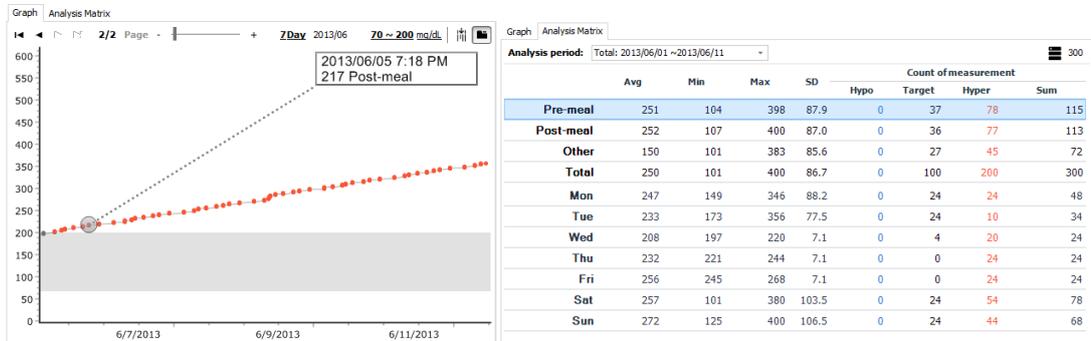
The user can change the following view modes.

- Single view: display Graph and Analysis areas on the single form.
- Tab view: divide Graph and Analysis areas by each tab.

Each view mode is toggled by clicking the  icon.



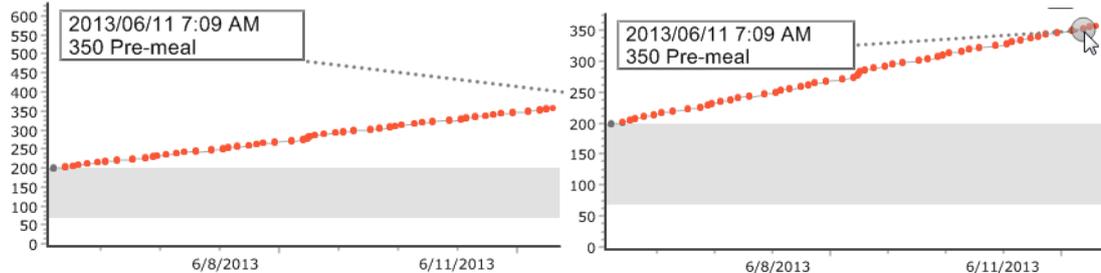
<Figure 46> Single view



<Figure 47> Tab view

### 3.4 Assign Y-axis auto range

Click  icon and enable Y-axis auto range function. If you move the mouse pointer in the graph area, the glucose range in Y-axis will be changed automatically.



<Figure 48> Y-axis auto range before and after

## 4 Analysis

The software analyzes the blood glucose data for the selected period.

Provide the statistics blood glucose data according to the day of week and Pre-meal/Post-meal/Other<sup>2</sup>.

- Average
- Minimum
- Maximum
- standard deviation
- Count of measurement

Analysis period: Total: 3/10/2013 ~10/14/2013 ▾

	Avg	Min	Max	SD	Count of measurement			
					Hypo	Target	Hyper	Sum
<b>Pre-meal</b>	0	0	0	0.0	0	0	0	0
<b>Post-meal</b>	0	0	0	0.0	0	0	0	0
<b>Other</b>	83	0	404	77.4	10	151	66	227
<b>Total</b>	161	0	404	77.4	10	151	66	227
<b>Mon</b>	163	40	397	78.5	2	25	12	39
<b>Tue</b>	157	0	268	63.6	1	17	8	26
<b>Wed</b>	131	0	404	84.6	3	15	5	23
<b>Thu</b>	173	41	308	83.9	1	22	16	39
<b>Fri</b>	147	29	335	70.3	2	23	5	30
<b>Sat</b>	180	88	401	83.8	0	23	10	33
<b>Sun</b>	161	51	307	71.1	1	26	10	37

<Figure 49> Analysis

### NOTE

Do not include Control Solution test results in analysis data.

For example, total number of data transferred from a meter is 100.95 data are blood glucose test results and 5 data are control solution test results.

So, the software analyzes only 95 blood glucose test results as analysis data.

<sup>2</sup> Other means the blood glucose data not defined as pre-meal or post-meal as event.

## 4.1 Change analysis period

Click drop-down menu icon. Period window will pop up.  
 You can select the period (7, 14, 30, 90 or customized days).

Analysis period:	Total: 3/10/2013 ~10/14/2013				
	Total: 3/10/2013 ~10/14/2013				
	Graph: 10/14/2013 ~10/14/2013	SD	Count of measurement		
			Hypo	Target	Hyper
					Sum

<Figure 50> Change analysis period

**Period dialog** ✕

Period \_\_\_\_\_

7 Day

14 Day

30 Day

90 Day

Custom :  Day

<Figure 51> Analysis period dialog

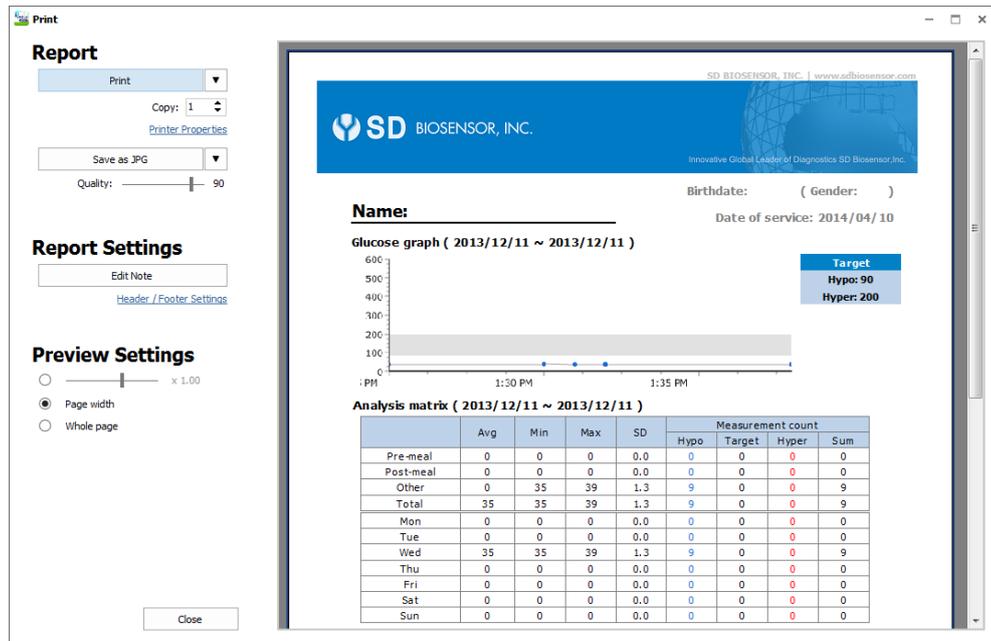
## 5 Report

### 5.1 Print

Click "Print" icon. Print dialog will pop up and display the report preview.



<Figure 52> Print icon



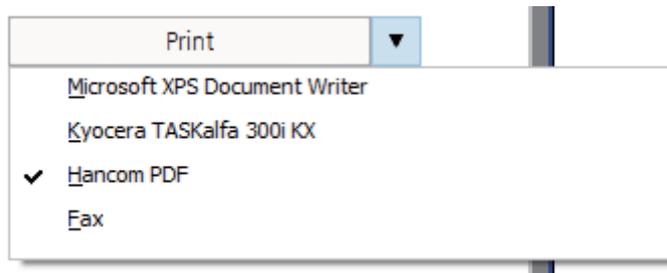
<Figure 53> Print dialog

#### 5.1.1 Execute printing

Click "Print" to print out the report with the printer connected to a PC.

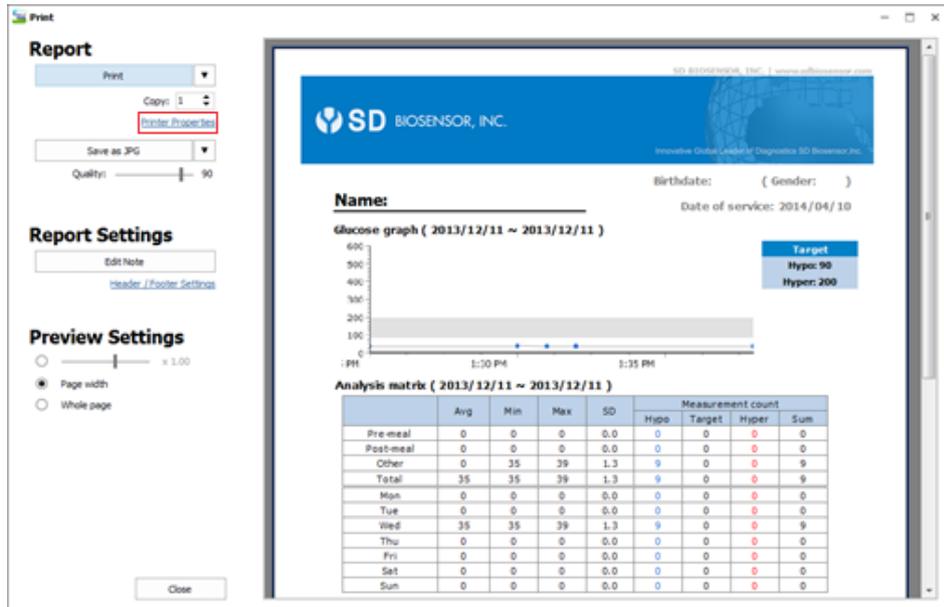
#### 5.1.2 Change the printer

Click ▼ drop-down menu icon next to "Print". Click the printer to change.



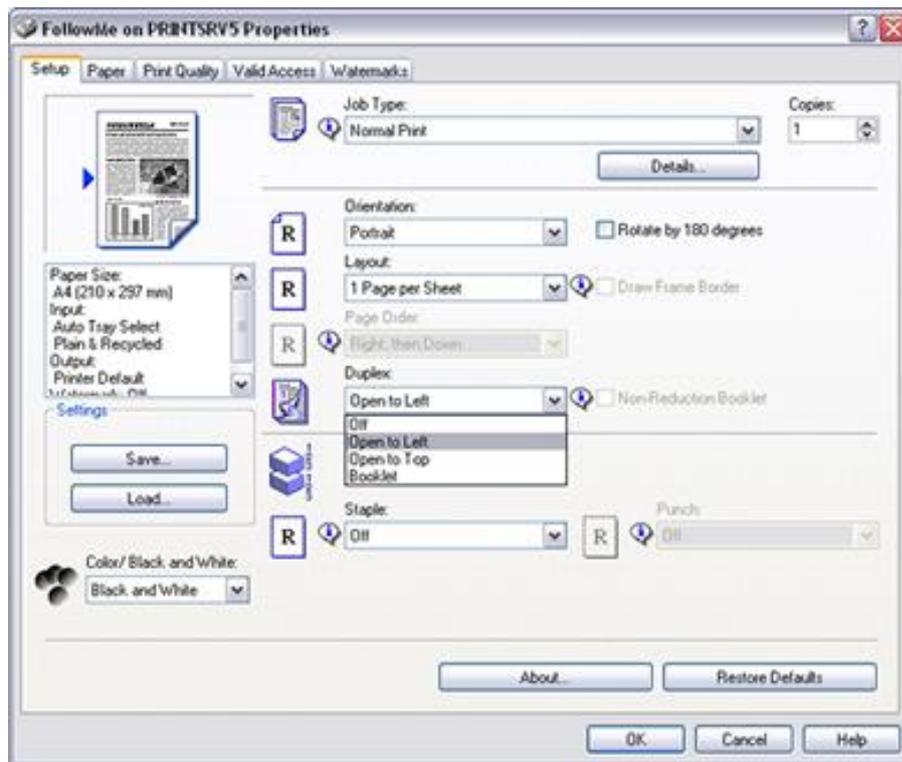
<Figure 54> Select the printer

- 5.1.3 Change printer properties  
 Click “Printer properties” to change the properties of the printer.



<Figure 55> Print dialog

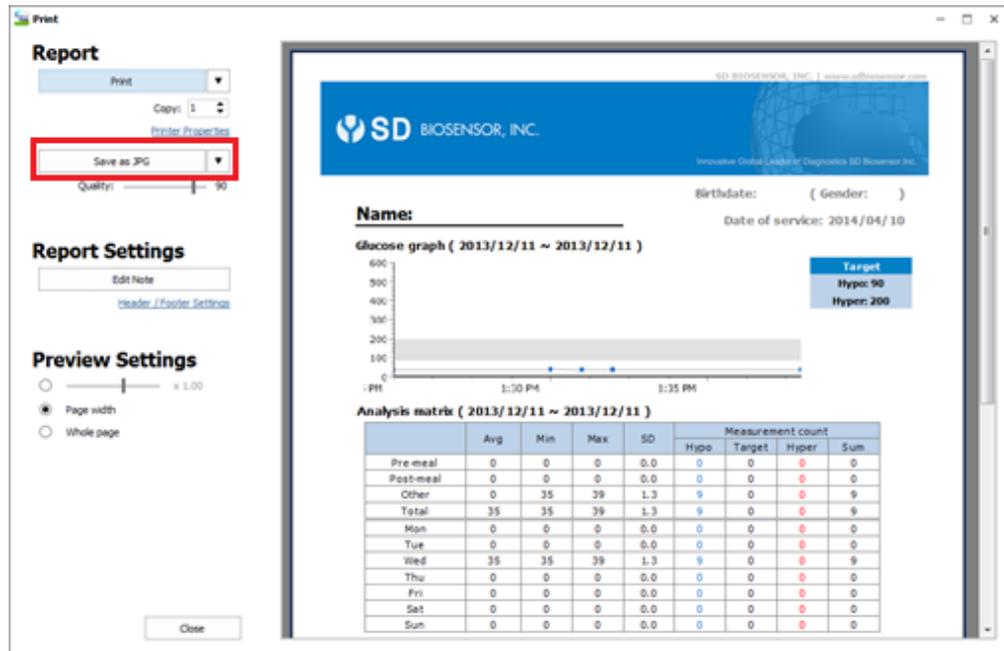
After then, the printer property will appear. You can set all the print properties.



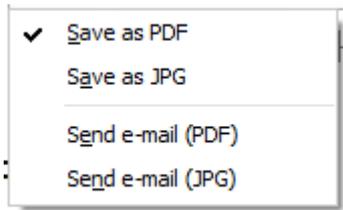
<Figure 56> Printer properties

## 5.2 Save as file / Send to e-mail

Click ▼ drop-down menu icon to save the report or send the report to e-mail through Microsoft Outlook.



<Figure 57> Print dialog – Save as file / Send to e-mail



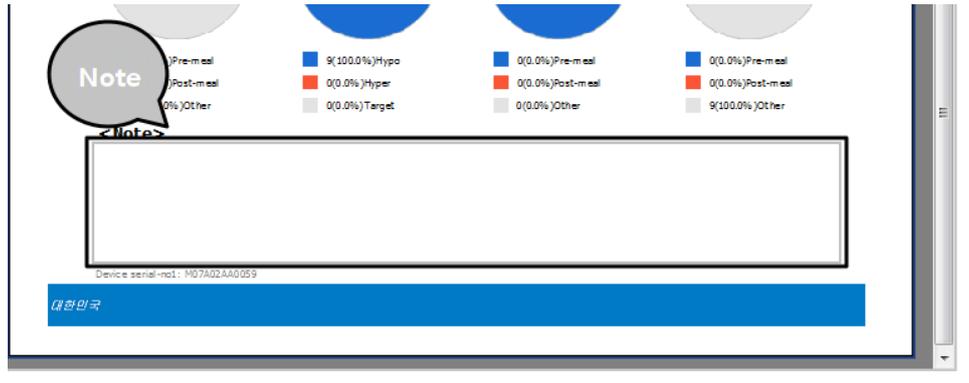
<Figure 58> drop-down menu on Save as file / Send to e-mail

### NOTE

Microsoft Outlook must be installed and e-mail account must be registered to use "Send an email".

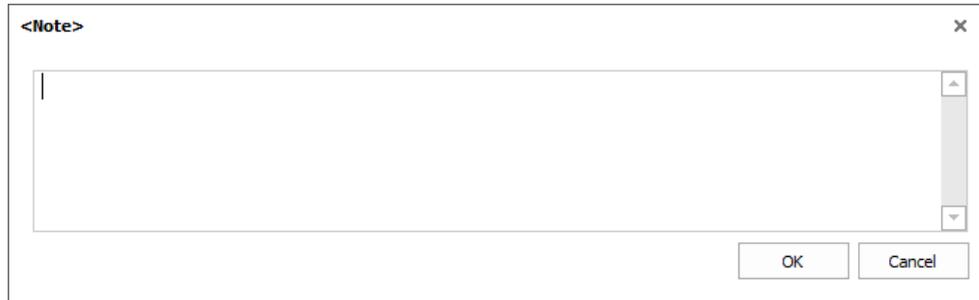
## 5.3 Edit note

Note section represents the black box in the report.



<Figure 59> Note section in report preview

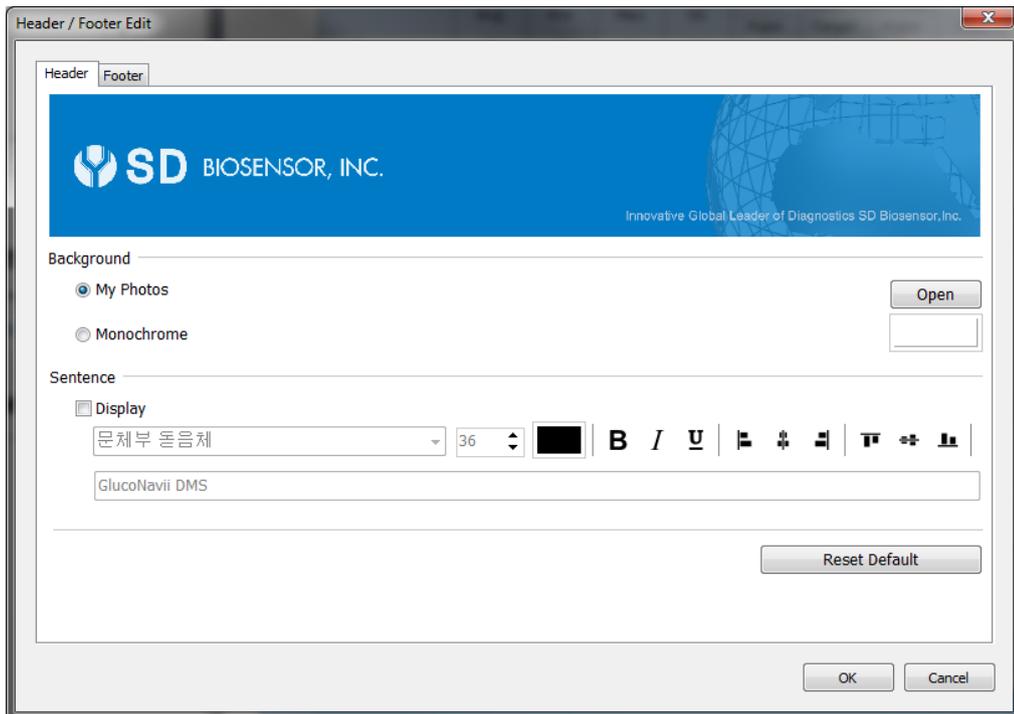
Click  or click note section directly in the report preview. Note dialog will pop up.



<Figure 60> Edit note

## 5.4 Edit header / footer

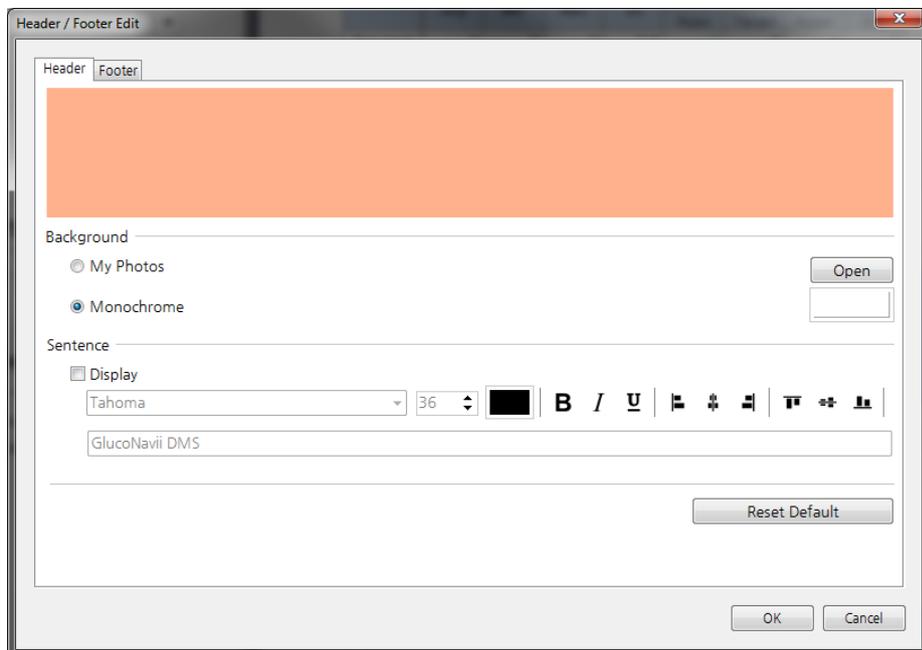
Click “Header / Footer Settings” icon.



<Figure 61> Header / Footer edit dialog

### 5.4.1 Edit background image

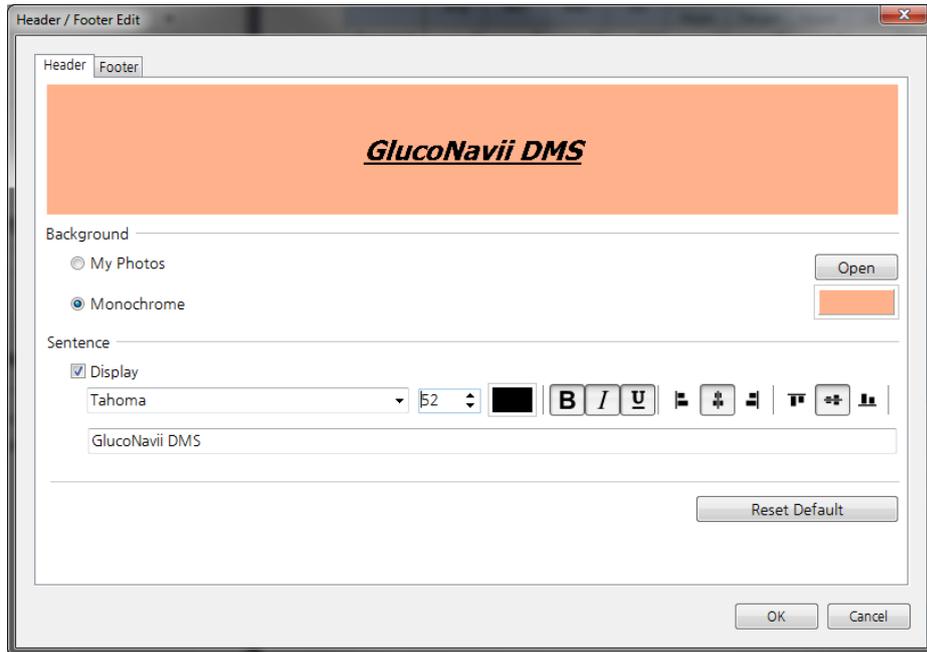
You can select background image with a picture (BMP, JPG or PNG) or solid colors.



<Figure 62> Select monochrome

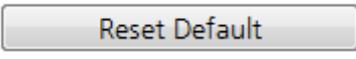
## 5.4.2 Edit sentences

Check “Display” check box. Select font style, size, color and other options.



<Figure 63> Example of sentence

## 5.4.3 Reset header / footer settings

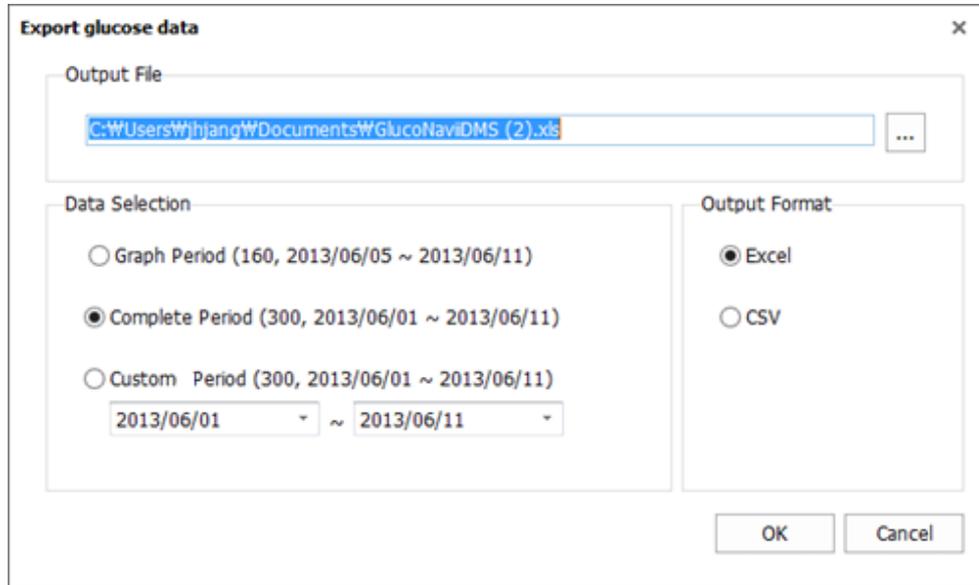
Click  to reset the header/footer.

## 6 Export

The data exporting as Excel or CSV file format is provided.

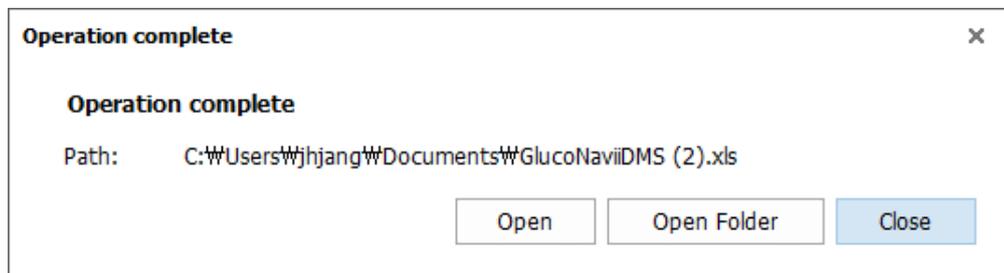
### 6.1 Export excel / CVS file format

Click  Export or  CSV icon. Export dialog will pop up.



<Figure 64> Export glucose data

You can select the data format type, the location and the data period. Click "OK" to save glucose data.



<Figure 65> Operation complete

## CHAPTER 5: TROUBLESHOOTING

### 1 Troubleshooting situations

Situation description	Solution										
Program installation failure	<p>Make sure you have a compatible version on your PC.</p> <p>Compatible versions:</p> <ul style="list-style-type: none"> <li>- Microsoft® Windows Vista</li> <li>- Microsoft® Windows 7</li> <li>- Microsoft® Windows 8</li> <li>- Microsoft® Windows 10</li> </ul> <hr/> <p>Make sure that your PC meets the following minimum requirements:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">CPU</th> <th style="background-color: #cccccc;">RAM</th> <th style="background-color: #cccccc;">HDD</th> <th style="background-color: #cccccc;">Display</th> <th style="background-color: #cccccc;">Other</th> </tr> </thead> <tbody> <tr> <td>800 MHz</td> <td>512 MB</td> <td>50 MB</td> <td>1024 × 768</td> <td>- USB port - USB cable</td> </tr> </tbody> </table>	CPU	RAM	HDD	Display	Other	800 MHz	512 MB	50 MB	1024 × 768	- USB port - USB cable
CPU	RAM	HDD	Display	Other							
800 MHz	512 MB	50 MB	1024 × 768	- USB port - USB cable							
Program installation and/or operation Failure	<p>You must build up your computer's defenses.</p> <ul style="list-style-type: none"> <li>- Prior to installing and using the software, scan the computer system with anti-virus and anti-spyware programs from a trusted source to make sure the system is virus-free.</li> <li>- Install, set up and enable adequate anti-virus software.</li> <li>- Maintain up-to-date anti-virus software.</li> <li>- Make sure the operation system has the latest security updates applied.</li> <li>- Turn on the firewall at the PC.</li> <li>- Windows Vista, 7, 8 and 10 have built-in fire walls that turn on by default.</li> </ul>										
Time Sync icon is not displayed on the GUI.	<p>Please confirm that USB cable is correctly plugged in the PC.</p> <p>If the problem is not resolved, please contact SD Biosensor, Inc. TEL: +31-300-0400.</p>										
The software does not respond although pushing the power button on the meter for data transfer.	<p>Please confirm that USB cable is correctly plugged in the PC. And then, push the power button again.</p> <p>If the problem is not resolved, please contact SD Biosensor, Inc. TEL: +31-300-0400.</p>										

### 2 Error message on meter

In certain circumstances, "E-5" error message may appear on your meter display. Try the solution suggested below.

Indication	Error description
	<p><b>Error: Communication Error</b> The communication between a meter and PC is failed during synchronization.</p> <hr/> <p><b>Solution</b> Please push the power button on the meter again.</p> <hr/> <p>If there is still error message, please contact SD Biosensor, Inc. TEL: +31-300-0400.</p>



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