User's Guide

For INFINITY™ Automatic Coding Blood Glucose Monitor

Communication Program

US Diagnostics, Inc.
New York, NY 10010
866-216-5308

Version 1.00

Contents

1. Introducing INFINITY^{TM} communication program

1. 1 About this guide

This guide is designed to show how to install and use the INFINITY^{TM} communication program to our blood glucose monitoring system users. This way, our users can monitor and manage the diabetes systematically with graphs and charts.

This program is easy to install and easy to use, and provides a variety of reports.

1. 2 Contacting Customer Service

If you have any problem by using this program, please contact our customer service toll free at 866-216-5308 or visit our website at www.usdiagnostics.net to download the most current version of the INFINITY™ Communication Program.

2. Components of INFINITY^{TM} communication program package

- Blood glucose management program set-up CD

- INFINITY™ Blood Glucose Management User's Guide

- PC communication cable (USB)(sold separately. Please contact your

   distributor or US Diagnostics Customer Service)

3. System requirements

- OS**:** Windows98(SE), WindowsME, Windows2000, WindowsXP,

   Windows Vista

- CPU : Pentium 1 or above

- RAM : 64mega bytes or above

- Pixel : 800 Χ 640 or above

- Hard disk : 10 mega bytes or above

- E-mail : Available through Outlook

- Port : COM1~COM20 (Auto Search)

   ○ **Baud rate : 4800bps**

   ○ **Data Bit : 8**

   ○ **Parity : NONE**

   ○ **Stop Bit : 1**

4. Program Installation

   1) Insert the CD in your PC or download from the US Diagnostics, Inc.

      website, www.usdiagnostics.net

   2) Execute the "INFINITY_setup.exe" file from the CD or desktop.

   3) Click "Next".

4) Designate the folder where you wish to install and click "Install". It is recommended that you use the default folder. By clicking "Install", the installation will be started.

5) The program installation will be processed automatically.

6) When shown the window "InstallShield Wizard Complete," click "Finish".

7) When the installation is completed, click "YES" button to restart your computer. You must restart your computer before using the INFINITY™ software for the first time.
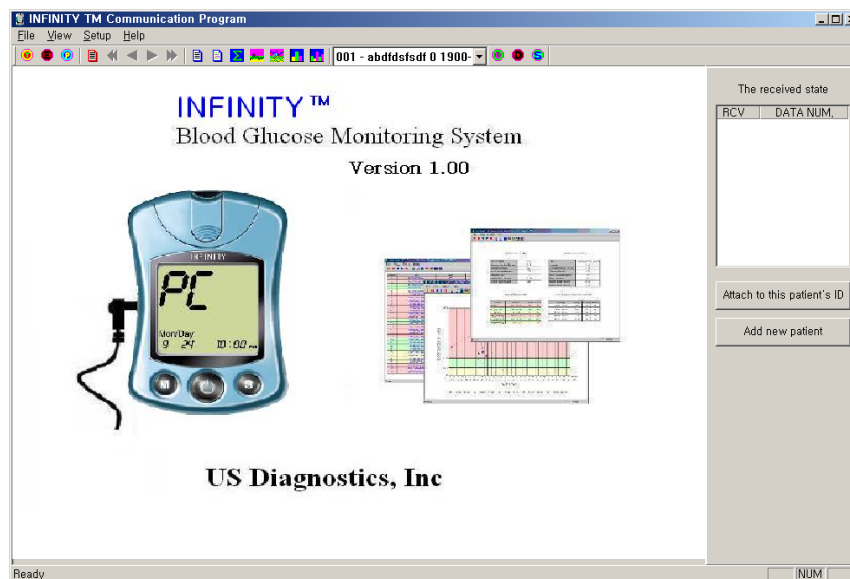

9) You will be able to find the INFINITY^{TM} icon on the desktop and on the [Start] – [Program] menu
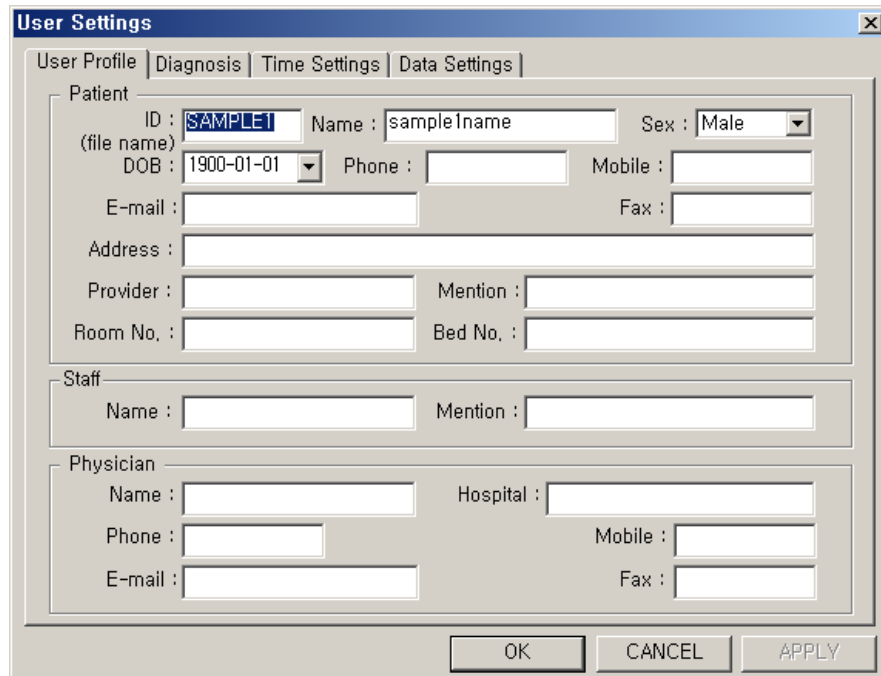
5. Usage

1) Connect the INFINITY^{TM} communication cable (USB) to your PC or

laptop.
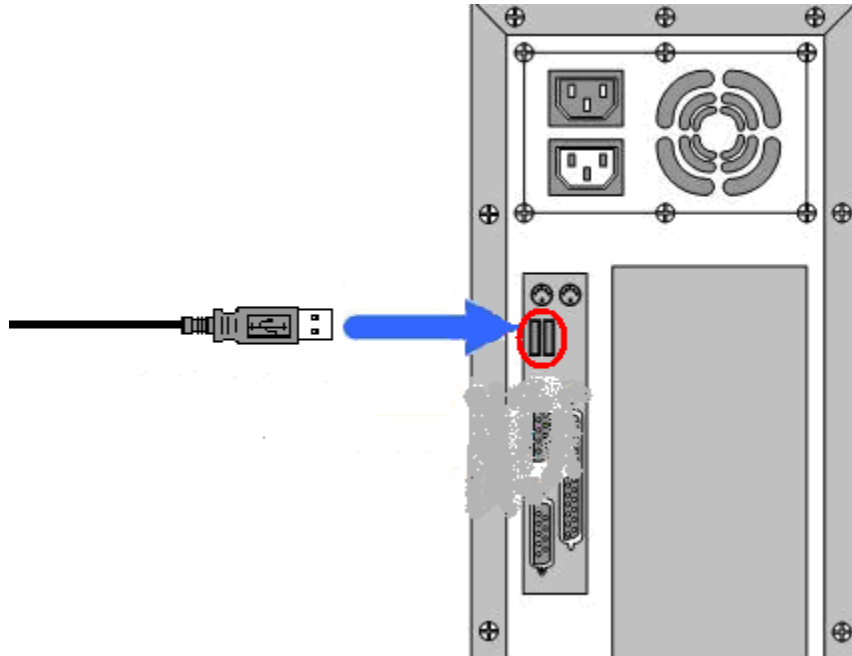
2) Click the INFINITY^{TM} icon on the desktop or in the [Start]- [Program]

menu to execute the INFINITY^{TM} communication program.

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3) Go to [User Profile] and enter the user or patient's information to be recorded. After all information is entered, click "OK." A file is saved with the name of the ID in [User Profile]. If the user or patient's information already exists, you do not need to reenter it.

4) Turn the INFINITY^{TM} meter on by pushing the button. Connect the cable jack to the jack port of INFINITY^{TM} meter. The meter LCD screen will show the letters "PC."

5) Execute [Receive meter data] on the menu bar of the program (or from the File menu) and the data stored in the meter will download to the PC.

Pull out the cable jack from the meter. The letters "PC" will disappear from the LCD screen.
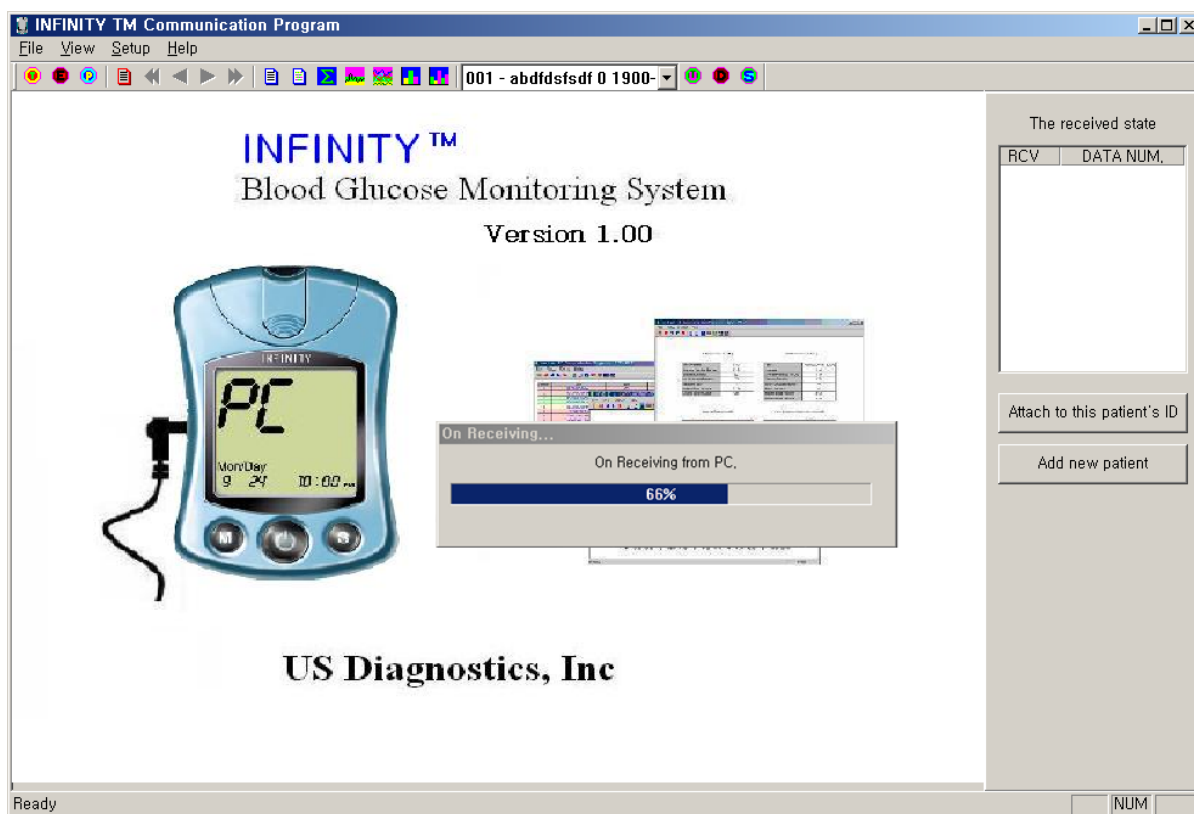
6) If you want to download more data from the meter, follow the steps

from 1) to 5) again.

Troubleshooting/Error Messages

i) If "PC" does not appear on the LCD screen when you connect the cable jack

to the jack socket of INFINITY^{TM} meter, please check the following:

(1) Check if the cable is connected to the PC firmly.

(2) Check if the meter has battery power.

ii) If you receive a "Communication Error " message when executing [Receive

meter data] from the program menu bar to download the data stored in the

meter to the PC, please check the following points.

(1) Check if the cable is connected to PC firmly.

(2) Check if the meter has battery power.

[General Error Case]

If you receive general error messages such as lack of space on hard drive or

shortage of space for memory space and/or virus or malicious program:

- Please secure the extra space for hard disk with 10 mega bytes or

above by not executing too many programs.

- Please execute Anti Virus program in order not to be contaminated

by virus or malicious program.

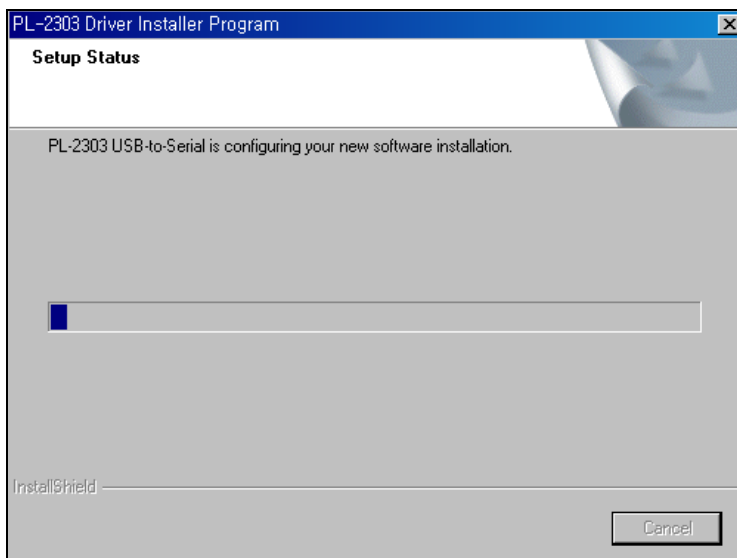A) If the USB-Serial Driver did not install properly, follow these steps:

1) Search or type "C:\Program Files\INFINITY\ USB-to-Serial

Converter Driver All-in-One Installer\ USB-to-Serial Converter

Driver All-in One.exe".

2) Execute the "USB-to-Serial Converter Driver All-in One.exe" from the
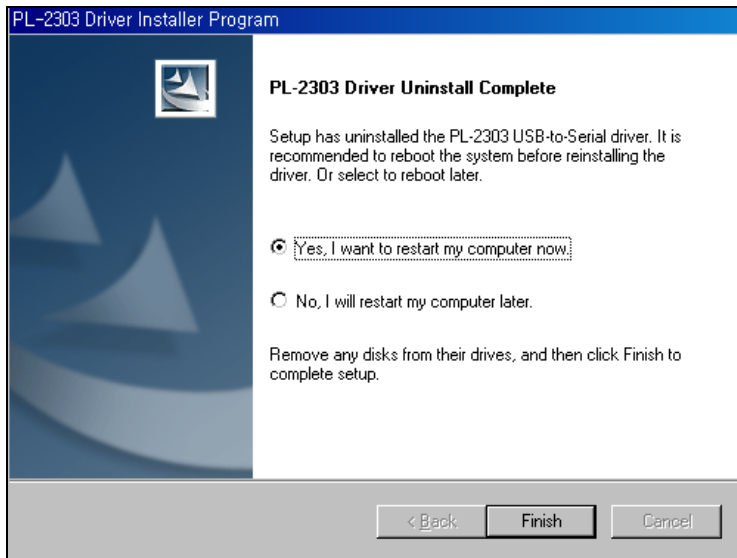
file.

3) If display the warning as following, click "Y" button.
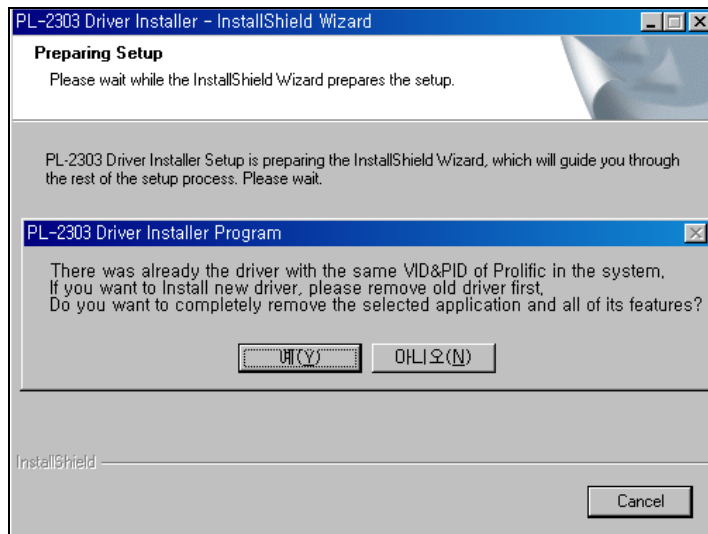
4) The program un-installation will be processed automatically.

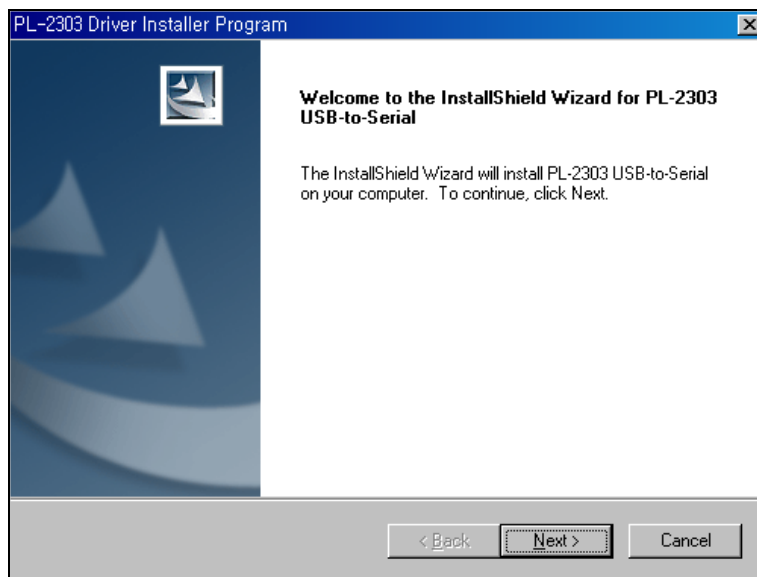5) If display the uninstall-complete as following, click "Finish" button.

6) Restart your computer.

7) Search or type "C:\Program Files\INFINITY\ USB-to-Serial Converter Driver All-in-One Installer\ USB-to-Serial Converter Driver All-in One.exe".
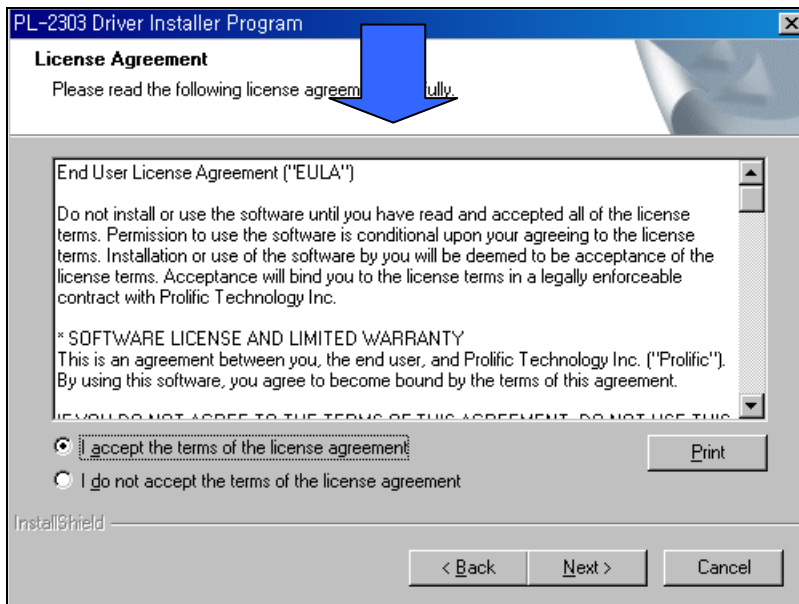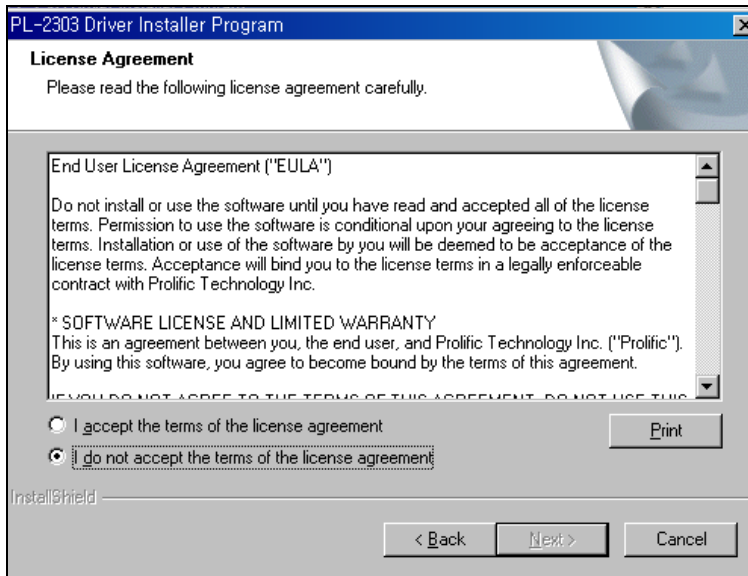
8) Execute the "USB-to-Serial Converter Driver All-in One.exe" \ from the file.
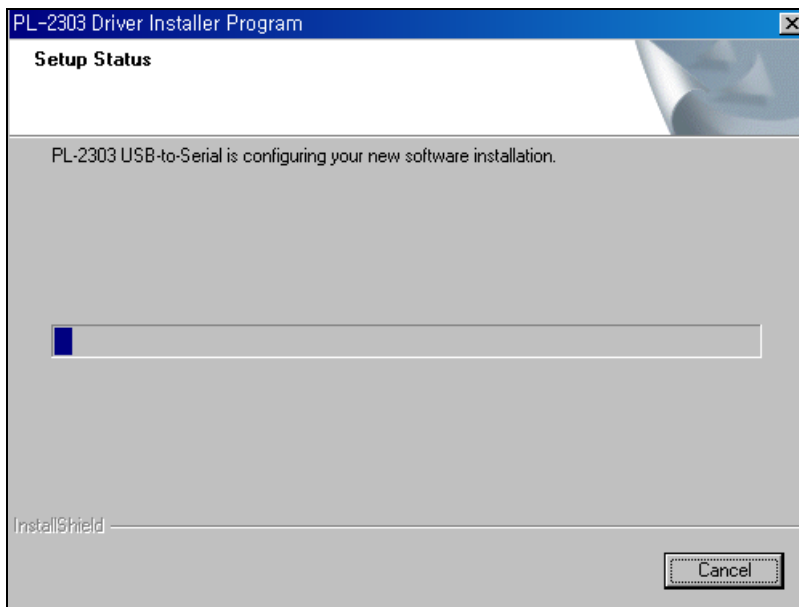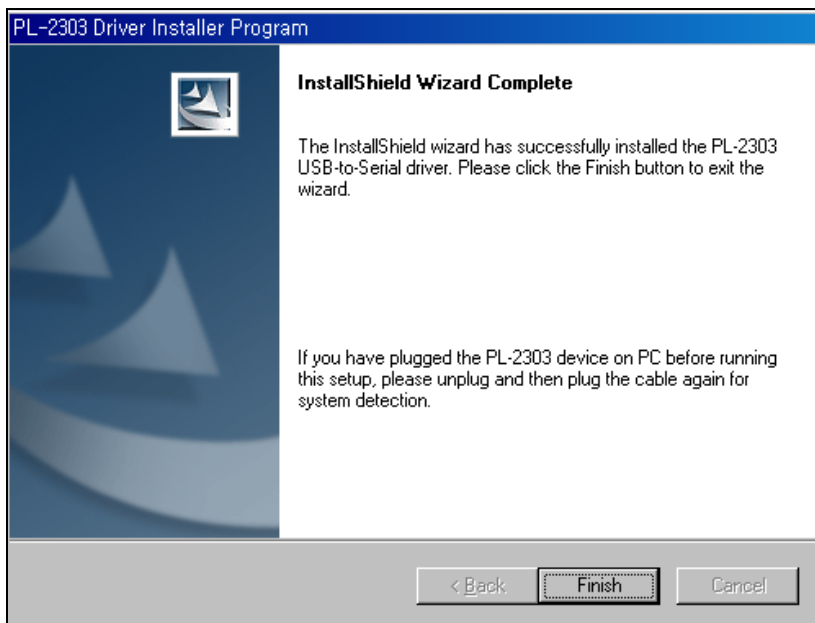
9) When the License Agreement appears on the screen, click "I accept the terms of the license agreement" checkbox and click "Next" button
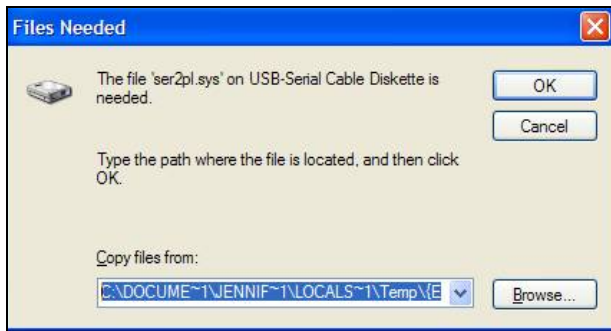
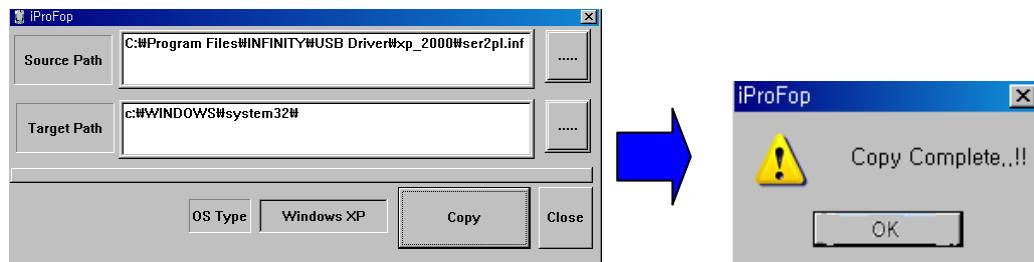10) The program installation will be processed automatically.

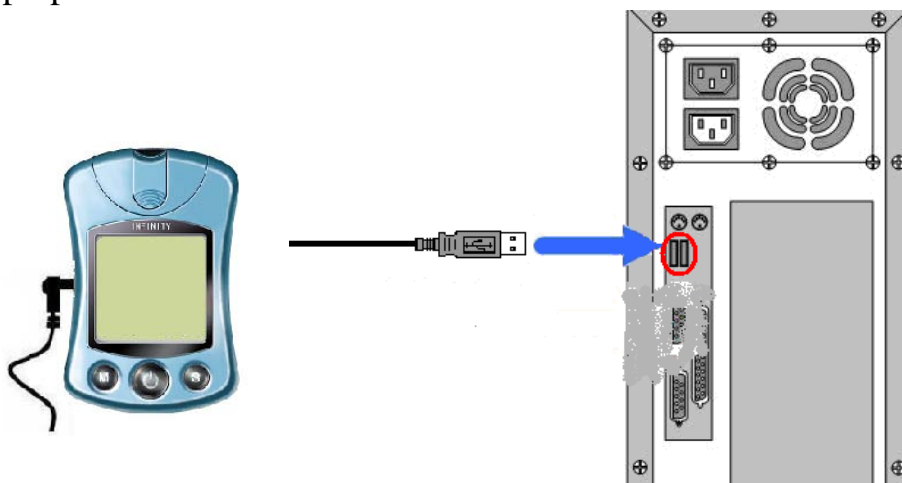11) If display the install-complete as following, click "Finish" button.

B) If USB-Serial driver file is not found, take the following steps.

1) INIFNITY Program Uninstall.

2) Search or type "C:\Program Files\INFINITY\USB Driver\".

3) Execute the "IProFop.exe" from the file.

4) If display the IProFop Program, click "Copy" button .

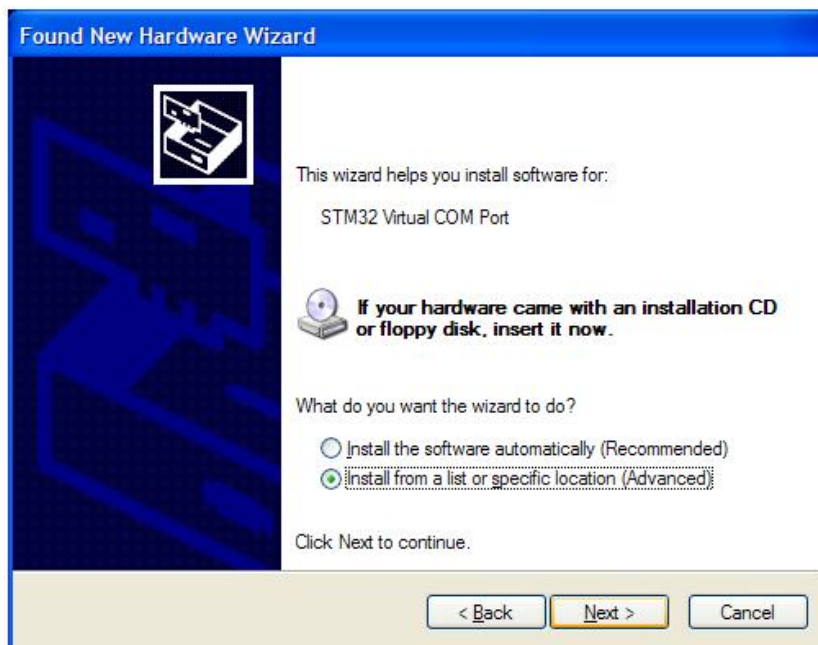

4) Connect the INFINITY^{TM} USB communication cable to your PC or
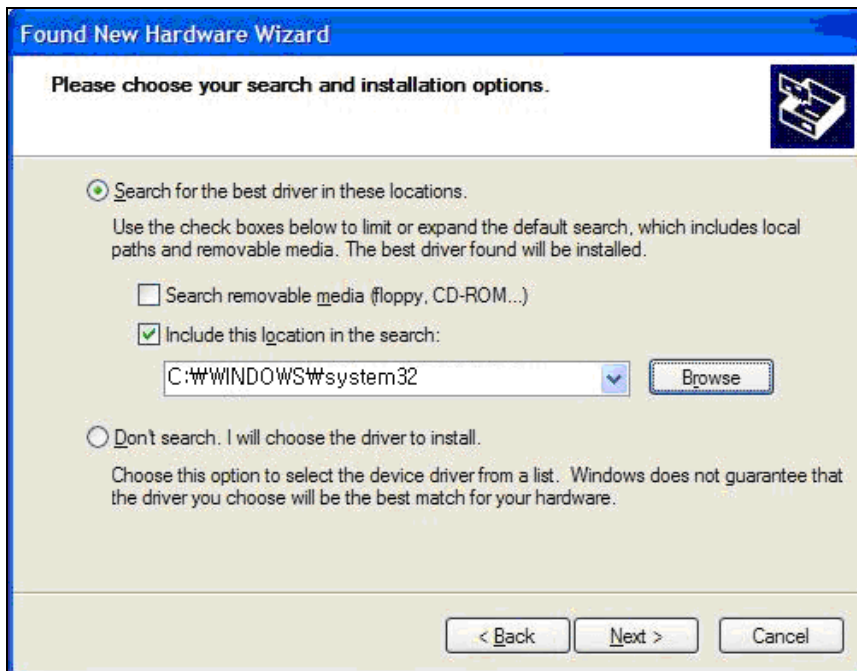
laptop.

6) Select "Yes, this time only" and click "Next" button.

7) Select "Install from a list or specific location (Advanced)" and click
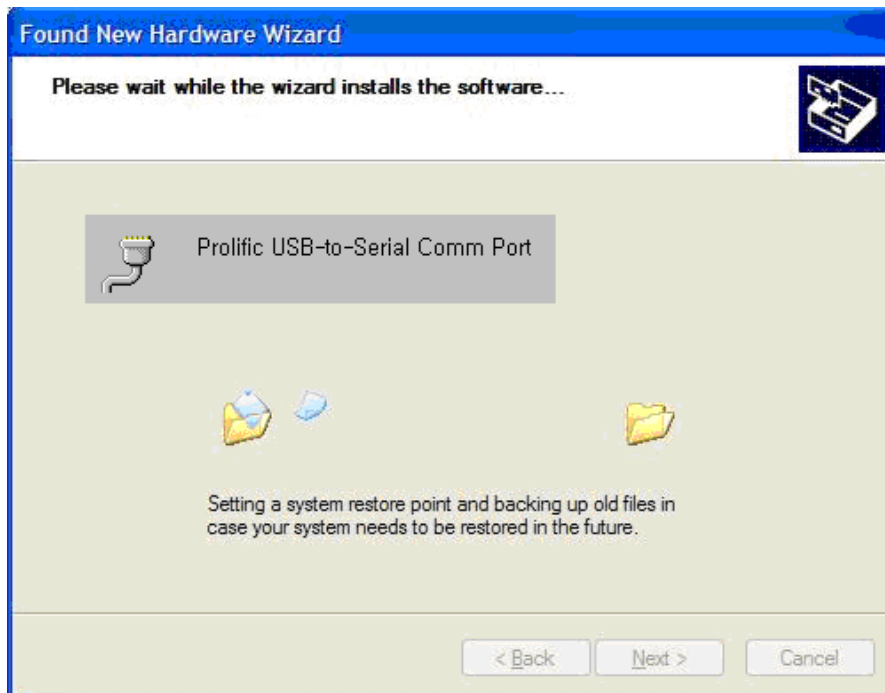
"Next" button.

8) Search or type "C:\Windows\system32 " and click "Next" button.

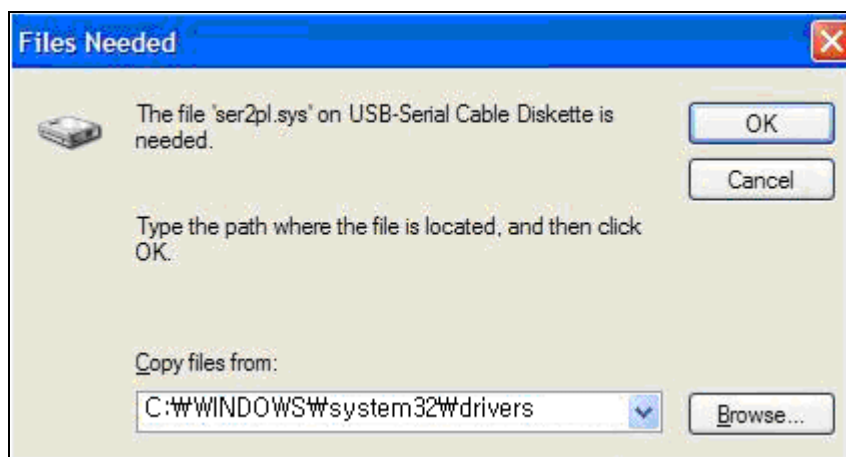9) If display the warning as following, click "Continue Anyway" button.

10) Wait while the wizard installs the USB software driver.

11) Search or type "C:\Windows\system32\drivers" and click

"OK" button.

12) Click "Finish" button.
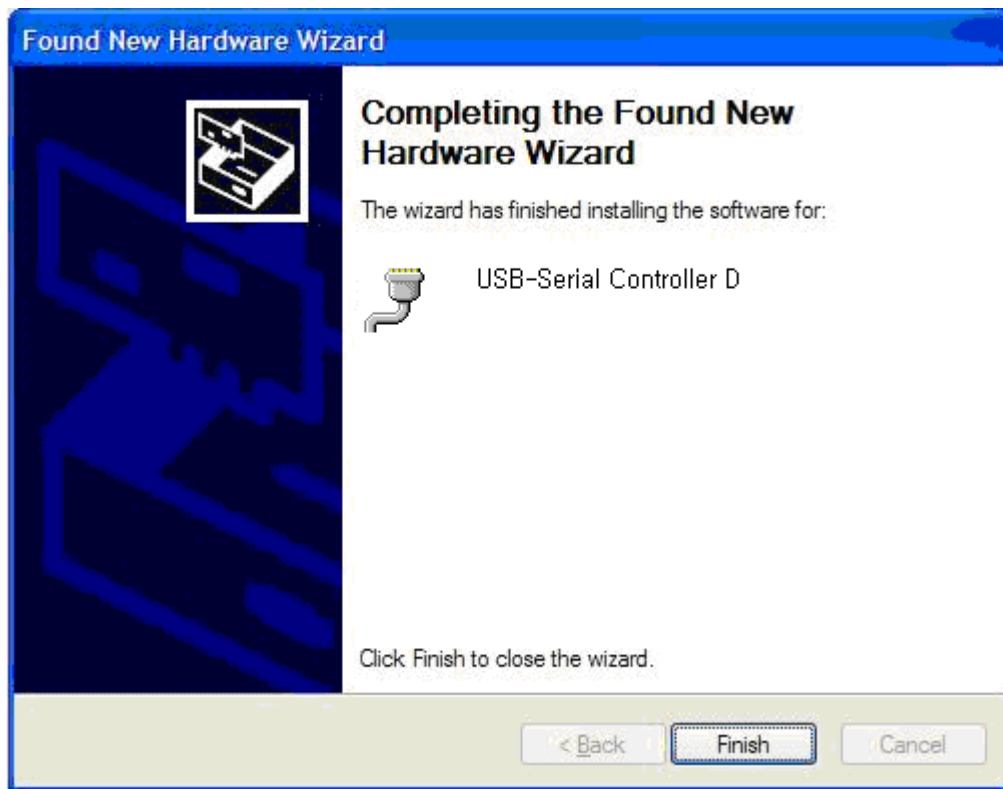
13) Restart your computer.

14) Verification.

[Start] menu – [Program] menu - [Control Panel] menu

-[System] Icon - [Hardware] tap – [Device Manager] Button

- [Port] tree menu

6. Composition of toolbar

- This program provides a user convenient toolbar, to help you manage
  the blood glucose easily.

7. Menu Functions

7.1 File[Alt+F]

▶ Receive meter data [R] : to download the stored data from the meter
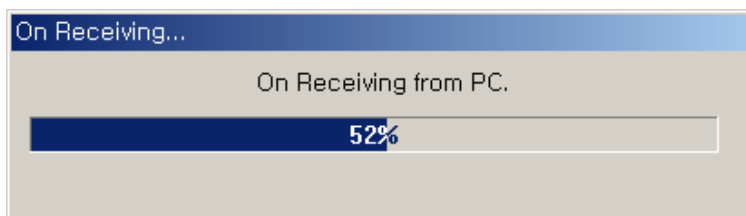
Progress bar during importing data from the meter
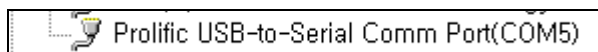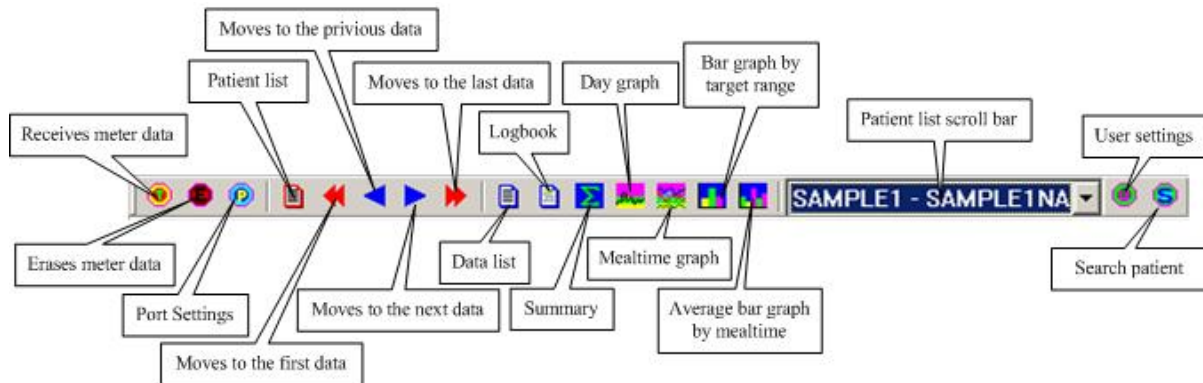
After connecting the communication cable to the USB port of the PC and the jack socket of the meter, the meter displays "PC". Click 'Receive meter data' and the data will be downloaded to the PC from the meter. During importing the data, the "On Receiving" box (as shown above) will be displayed, and the computer will show the dialog box of 'Data List' indicating that the data is stored with the file extension of 'gdt' as in "Patient ID.gdt."

Erasing Meter Data

▶ Erase meter data [R] : to erase the stored data of the meter
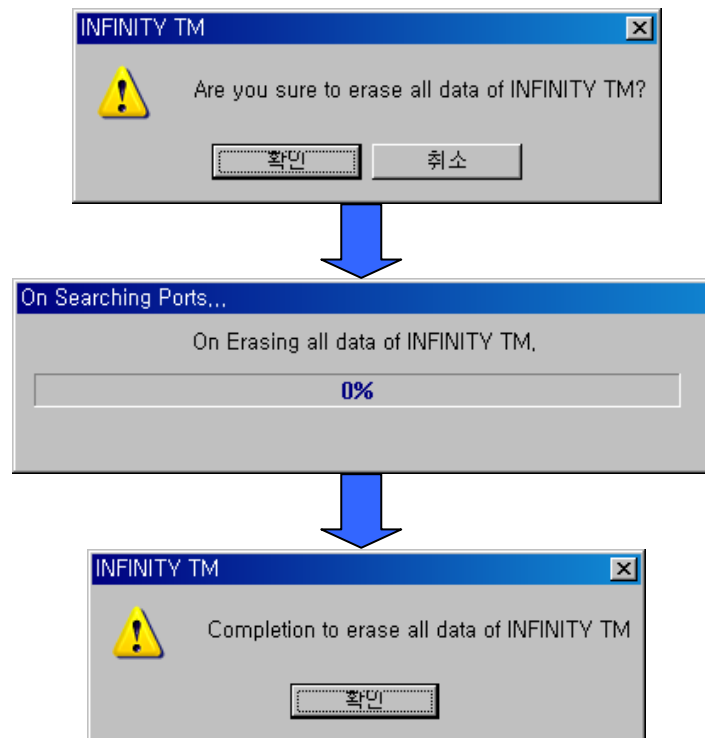
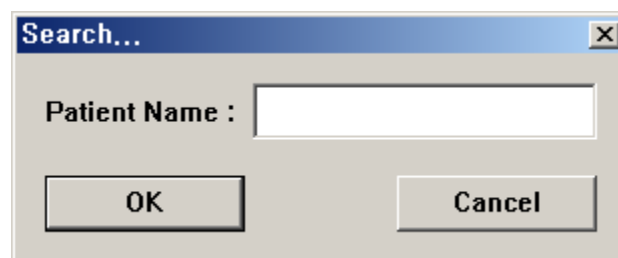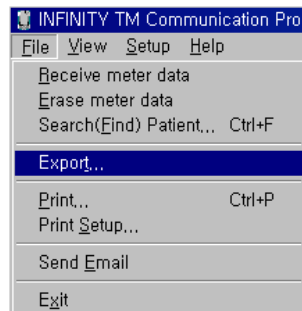When you connect the communication cable to the USB port of the PC and the jack socket of the meter, the meter displays "PC". After clicking 'Erase meter data', the all the data stored in the meter will be deleted.

▶ Search(Find) Patient [F or Ctrl+F] : to search the patient name

▶ Export [T or Ctrl+T] : to export the 'CSV' format file.

```
[Patient]
Name:     Jone Doe
Sex:      Male
DOB:      1976-04-08
Phone:
Mobile:
E-Maile:
FAX:
Address:
Provider:
Mention:
Room No.:
Bed No.:

[Staff]
Name:     Brown
Mention:

[Physician]
Name:     Johnes
Hospital:
Phone:
Mobile:
E-Maile:
FAX:
```

Number	Date	Time	Measuring	Temperatu	Icon
1	2009-01-02	8:23	123	24.1	Blood
2	2009-01-02	11:41	103	20.1	Blood
3	2009-01-02	17:06	93	22.6	Blood
4	2009-01-05	8:28	133	24.1	Blood
5	2009-01-05	11:30	153	22.1	Blood
6	2009-01-05	17:30	113	24.1	Blood
7	2009-01-08	8:18	112	24.1	Blood
8	2009-01-08	11:09	132	21.3	Blood
9	2009-01-08	18:21	92	23.3	Blood
10	2009-01-12	8:13	143	24.1	Blood
11	2009-01-12	11:29	163	20.9	Blood
12	2009-01-12	17:09	123	23.9	Blood
13	2009-01-18	7:33	130	24.1	Blood
14	2009-01-18	12:21	150	22.3	Blood
15	2009-01-18	20:29	110	24.3	Blood
16	2009-01-21	8:30	128	24.1	Blood
17	2009-01-21	11:28	148	23.6	Blood
18	2009-01-21	17:21	108	25.6	Blood
19	2009-01-27	8:16	126	24.1	Blood
20	2009-01-27	11:18	146	24	Blood
21	2009-01-27	17:43	106	26	Blood
22	2009-02-02	6:27	129	24.1	Blood
23	2009-02-02	12:16	149	21.8	Blood
24	2009-02-02	17:03	109	23.8	Blood

▶ Print [P or Ctrl+P] : to print
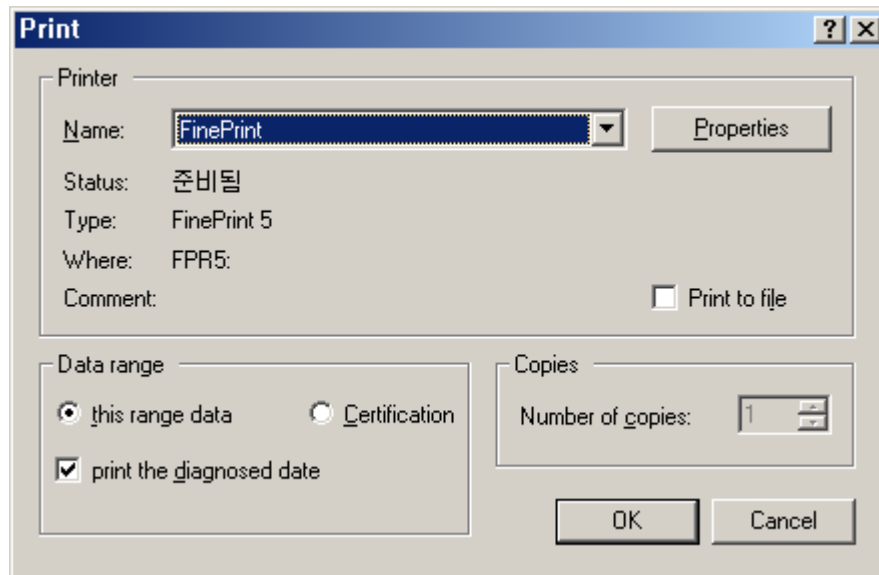
- In addition to the basic function of the Windows program, the user can print out the views by setting the range.

• Views

① Data list - lists the test results and enables the availability of the correction, addition and deletion of the data

② Logbook - reports the average readings by day and by meal time

③ Summary - shows the statistics in total or monthly

④ Day graph - plots the average readings by day and the user can spot the blood glucose level patterns during the period

⑤ Mealtime graph - displays the average results by meal time and it can be distinguished between pre-meal and post-meal
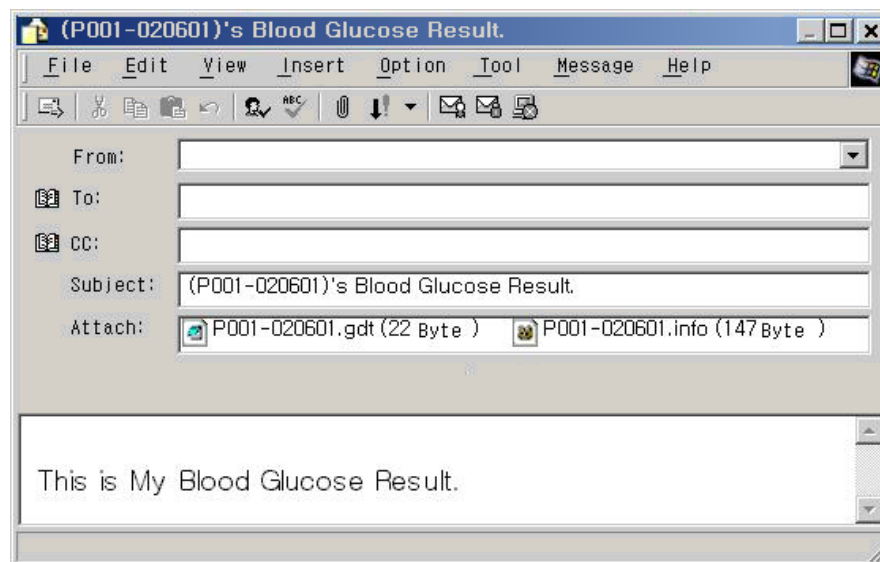
⑥ Bar graph by target range – plots all results in three bars which

shows below, in and above target range over time

⑦ Average Bar graph by mealtime – shows the average readings by

mealtime

▶ Print Setup [S] : to set up printing

- Follows the Windows default setting

- If printer does not work, please make sure whether the printer set-up is

installed.

▶ Send E-mail [E] : to send e-mail

- The mail is automatically ready to be sent from the Outlook program of

  your PC, with two type files attached. One type of 'gdt' extension and the

  other with 'info' extension as shown at the picture above.

- In the case above, it has been set up in the [User Profile] within the

  program, the patient as the sender and the physician as the receiver

  respectively.

- Send E-mail[E] is available when only using Outlook or Outlook Express

  program.

▶ Exit [X or Alt+F4]

- Click 'Exit' to close the program.

7.2 View [Alt+V]

- If there are data stored at the data files, each view can be open.

- If not, the screen displays the starting menu.

▶ Data List [D] : to display the data list

Number	Date	Time	Icon	Mealtime	Measuring value	Temperature	Level
1	01/15/2008 Tue	12:55 PM	Blood	Before Lunch	84	22.5	Target
2	01/15/2008 Tue	07:53 AM	Blood	Before Breakfast	112	22.5	Target
3	01/14/2008 Mon	07:04 PM	Blood	Evening	98	22.5	Target
4	01/14/2008 Mon	12:56 PM	Blood	Before Lunch	100	22.3	Target
5	01/14/2008 Mon	08:05 AM	Blood	After Breakfast	127	22.3	Target
6	01/13/2008 Sun	07:01 PM	Blood	Evening	132	22.4	Target
7	01/13/2008 Sun	12:41 PM	Blood	Before Lunch	129	22.4	High
8	01/13/2008 Sun	07:40 AM	Blood	Before Breakfast	117	22.0	Target
9	01/12/2008 Sat	07:40 AM	Blood	Evening	104	21.9	Target
10	01/12/2008 Sat	12:59 PM	Blood	Before Lunch	126	22.1	High
11	01/12/2008 Sat	08:10 AM	Blood	After Breakfast	112	22.1	Target
12	01/11/2008 Fri	06:52 PM	Blood	After Dinner	126	21.6	Target
13	01/11/2008 Fri	12:40 PM	Blood	Before Lunch	85	21.6	Target
14	01/11/2008 Fri	08:07 AM	Blood	After Breakfast	90	21.7	Low
15	01/10/2008 Thu	07:12 PM	Blood	Evening	87	20.9	Target
16	01/10/2008 Thu	12:58 PM	Blood	Before Lunch	110	21.1	Target
17	01/10/2008 Thu	08:02 AM	Blood	After Breakfast	104	21.3	Target
18	01/09/2008 Wed	06:23 PM	Blood	After Dinner	118	20.8	Target
19	01/09/2008 Wed	12:22 PM	Blood	Before Lunch	120	20.6	Target
20	01/09/2008 Wed	08:51 AM	Blood	After Breakfast	129	21.5	Target
21	01/08/2008 Tue	06:50 PM	Blood	After Dinner	89	21.5	Low
22	01/08/2008 Tue	12:44 PM	Blood	Before Lunch	114	22.5	Target
23	01/08/2008 Tue	08:54 AM	Blood	After Breakfast	102	22.5	Target
24	01/07/2008 Mon	06:15 PM	Blood	After Dinner	128	22.5	Target
25	01/07/2008 Mon	12:54 PM	Blood	Before Lunch	110	22.3	Target
26	01/07/2008 Mon	08:00 AM	Blood	After Breakfast	127	22.3	Target
27	01/06/2008 Sun	07:07 PM	Blood	Evening	92	22.4	Target
28	01/06/2008 Sun	01:22 PM	Blood	After Lunch	89	22.4	Low
29	01/06/2008 Sun	07:43 AM	Blood	Before Breakfast	97	22.0	Target
30	01/05/2008 Sat	06:53 PM	Blood	After Dinner	104	21.9	Target

- In this menu 30 test results are displayed, from newest to oldest.

- The results are color coded to make diabetes management easier:

Yellow indicated a low blood glucose level, green the target range and red

the high level.

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▶ Logbook [L] : to view average chart by day and by meal time

Date	Sleep 12:00 AM ~ 04:59 AM	Breakfast (Before/After) 05:00 AM ~ 10:59 AM	Lunch (Before/After) 11:00 AM ~ 02:59 PM	Dinner (Before/After) 03:00 PM ~ 06:59 PM	Evening 07:00 PM ~ 11:59 PM
01/01/2008		121 (0 / 121)	119 (0 / 119)	129 (0 / 129)	
01/02/2008		99 (0 / 99)	110 (110 / 0)	118 (0 / 118)	
01/03/2008		134 (0 / 134)	120 (120 / 0)	107 (0 / 107)	
01/04/2008		110 (0 / 110)	115 (0 / 115)		126
01/05/2008		82 (82 / 0)	96 (96 / 0)	104 (0 / 104)	
01/06/2008		97 (97 / 0)	89 (0 / 89)		92
01/07/2008		127 (0 / 127)	110 (110 / 0)	128 (0 / 128)	
01/08/2008		102 (0 / 102)	114 (114 / 0)	89 (0 / 89)	
01/09/2008		129 (0 / 129)	120 (120 / 0)	118 (0 / 118)	
01/10/2008		104 (0 / 104)	110 (110 / 0)		87
01/11/2008		90 (0 / 90)	85 (85 / 0)	126 (0 / 126)	
01/12/2008		112 (0 / 112)	126 (126 / 0)		104
01/13/2008		117 (117 / 0)	129 (129 / 0)		132
01/14/2008		127 (0 / 127)	100 (100 / 0)		98
01/15/2008		112 (112 / 0)	84 (84 / 0)		
01/16/2008					
01/17/2008					
01/18/2008					
01/19/2008					
01/20/2008					
01/21/2008					
01/22/2008					
01/23/2008					
01/24/2008					
01/25/2008					
01/26/2008					
01/27/2008					
01/28/2008					
01/29/2008					
01/30/2008					
01/31/2008					

The received state

RCV   DATA NUM,

Attach to this patient's ID

Add new patient

- shows the average value by day and by mealtime

▶ Summary [S] : to view statistics
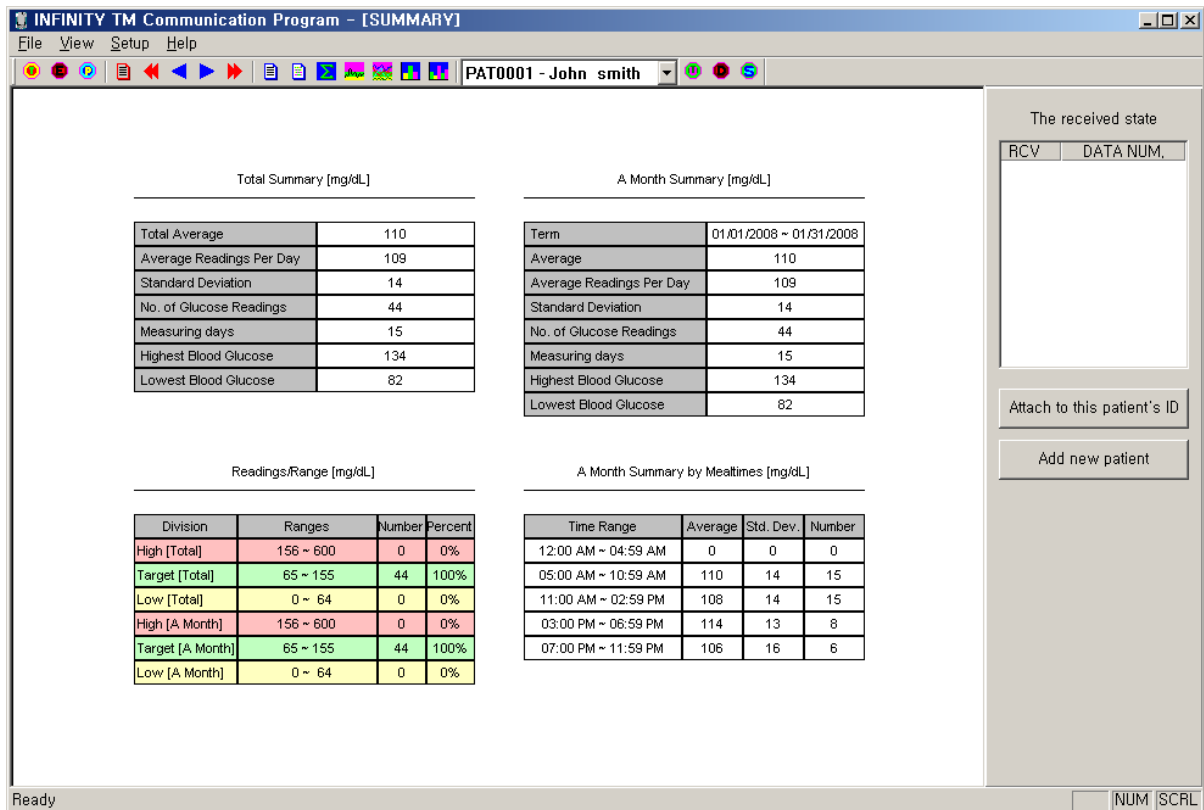
- Shows the statistical summary in total, by month, by measuring range and

  by mealtime.

▶ Day graph [G] : to view the average change by day
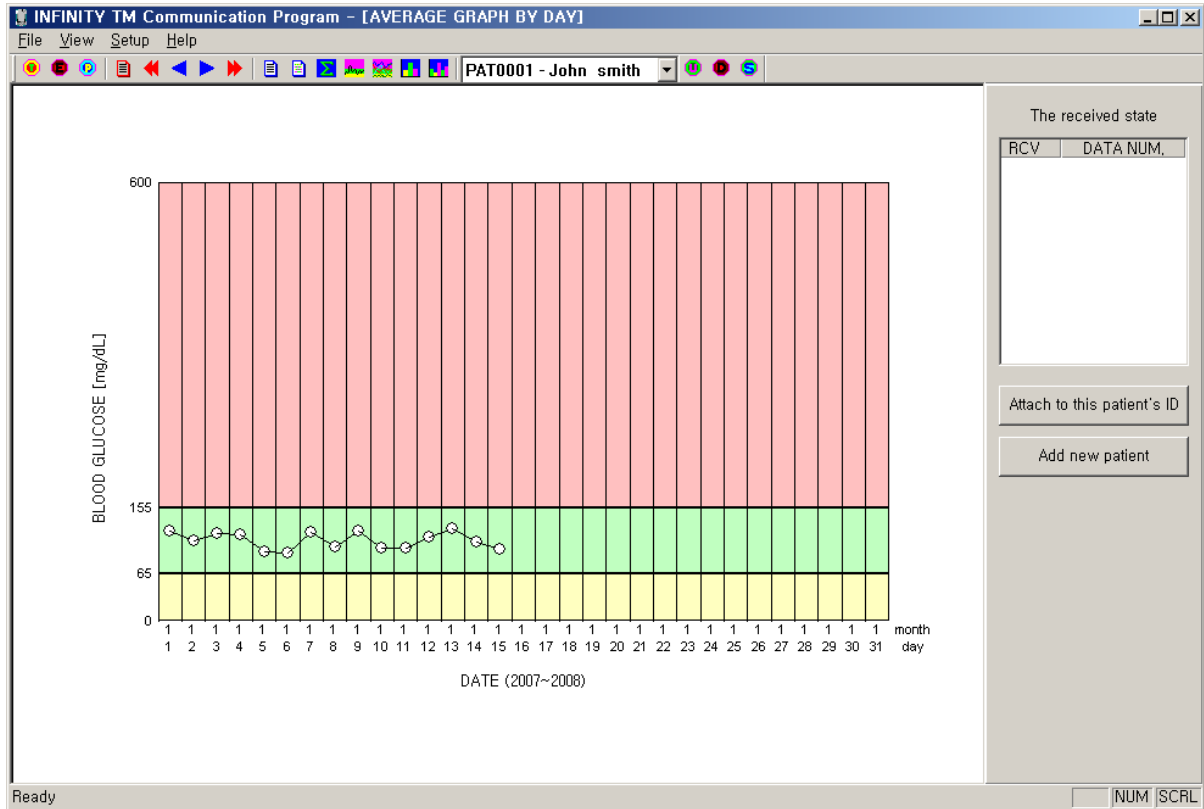
- Displays the average by day in one month graph.

▶ Mealtime graph [M] : to view the average by meal time
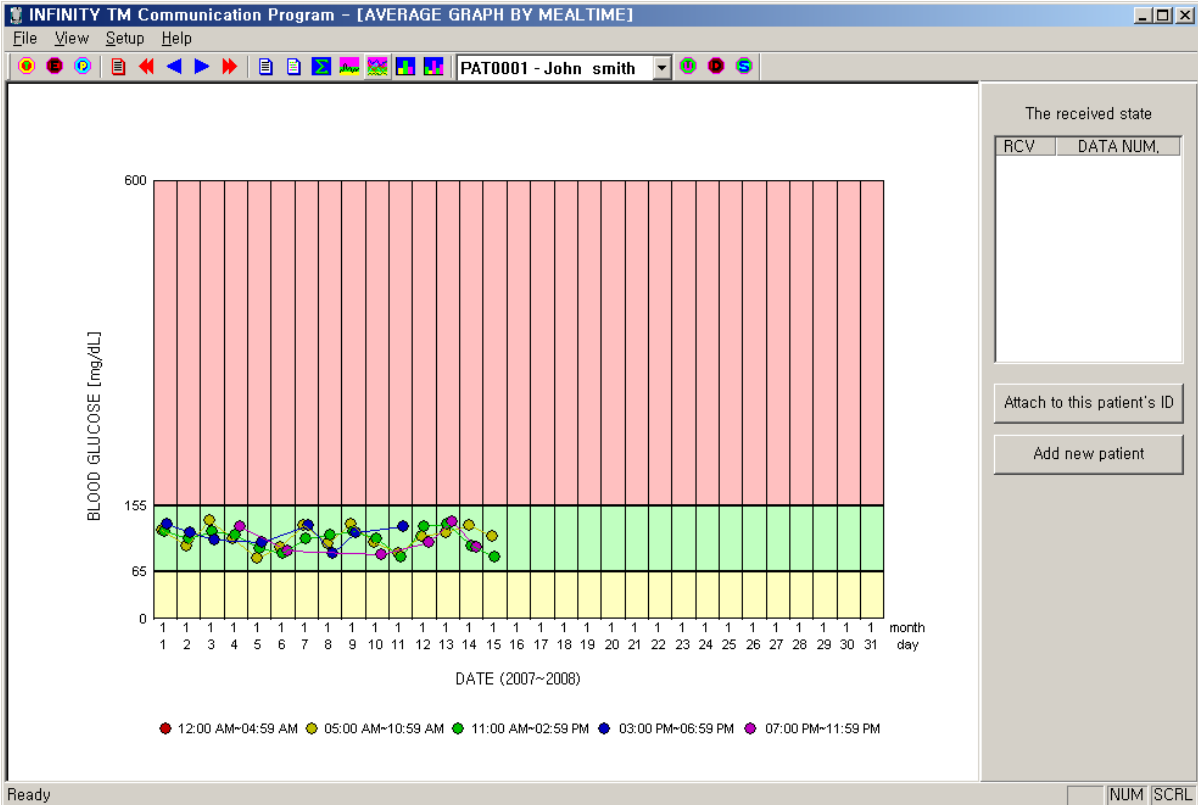
- Shows the average readings by mealtime in one month graph.

▶ Bar graph by target range [B]
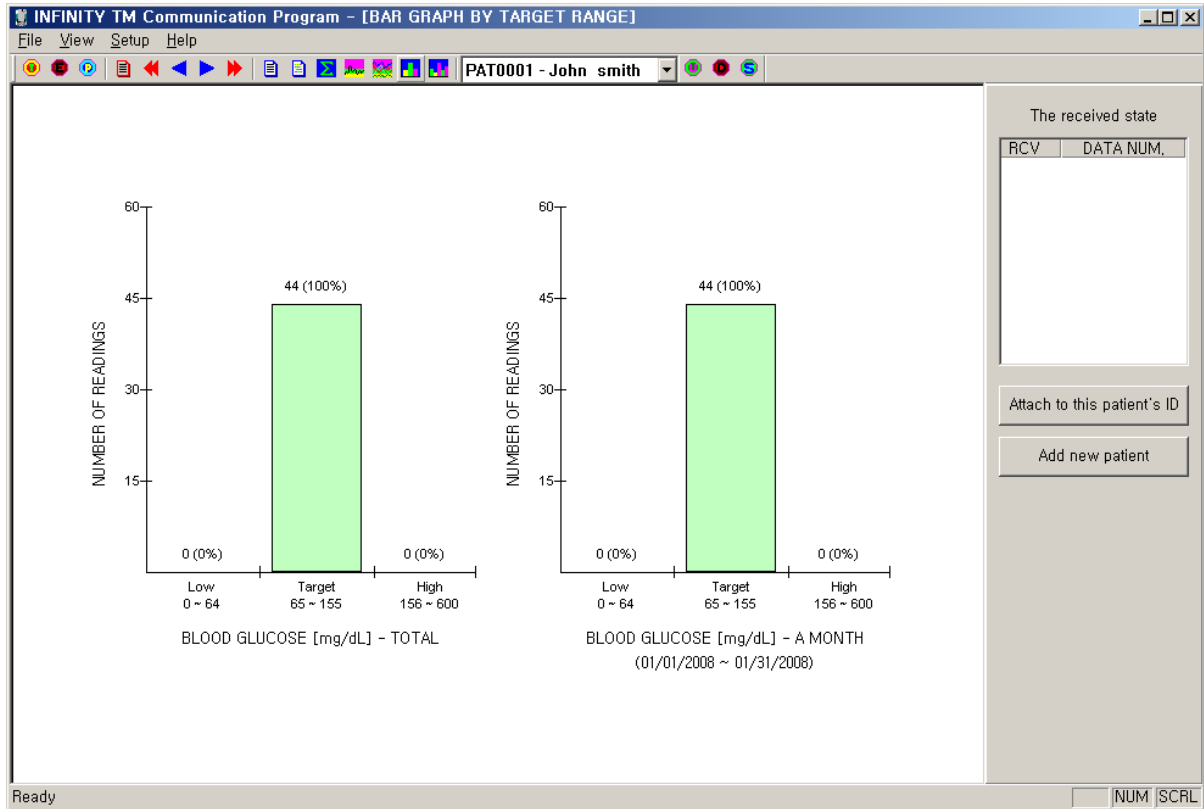
- Displays three bars which are the low range, target range and high range
respectively in total and by month.

▶ Average bar graph by mealtime [A]
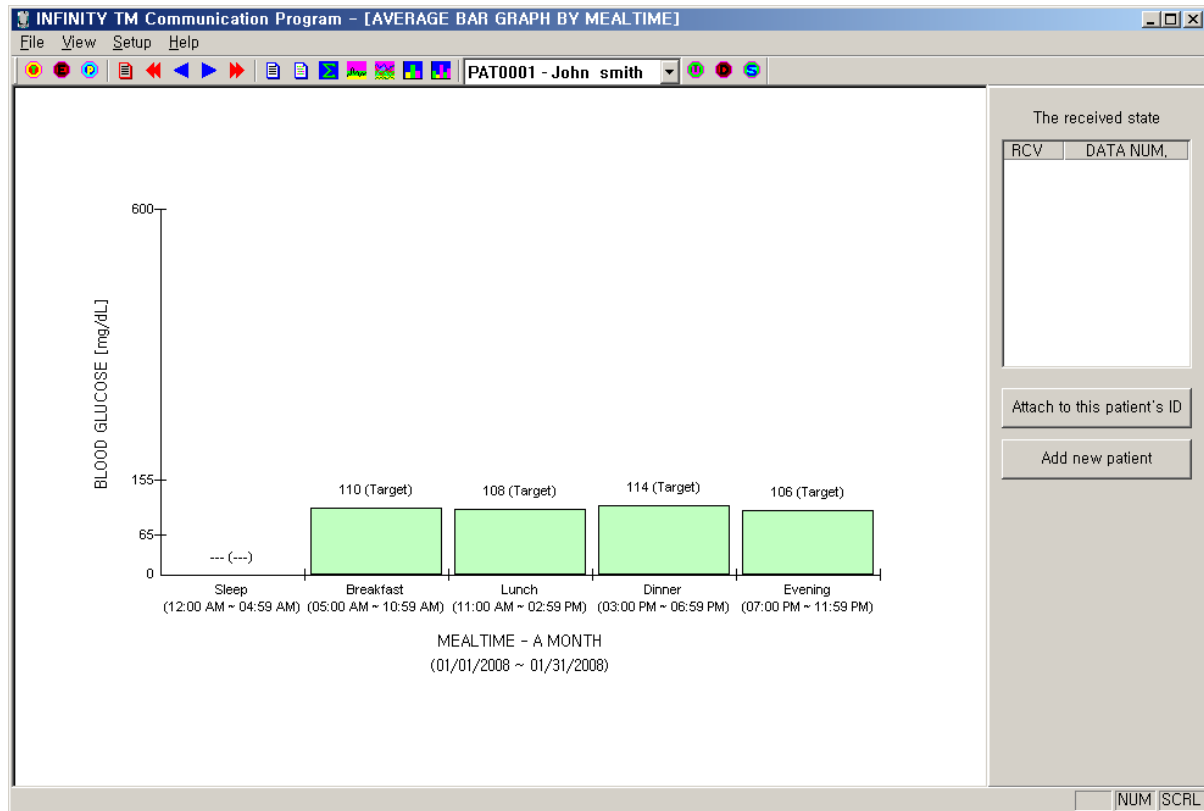
- Displays the statistics graph by mealtime.

7.3 Setup [Alt+S]

▶ User Settings [U]
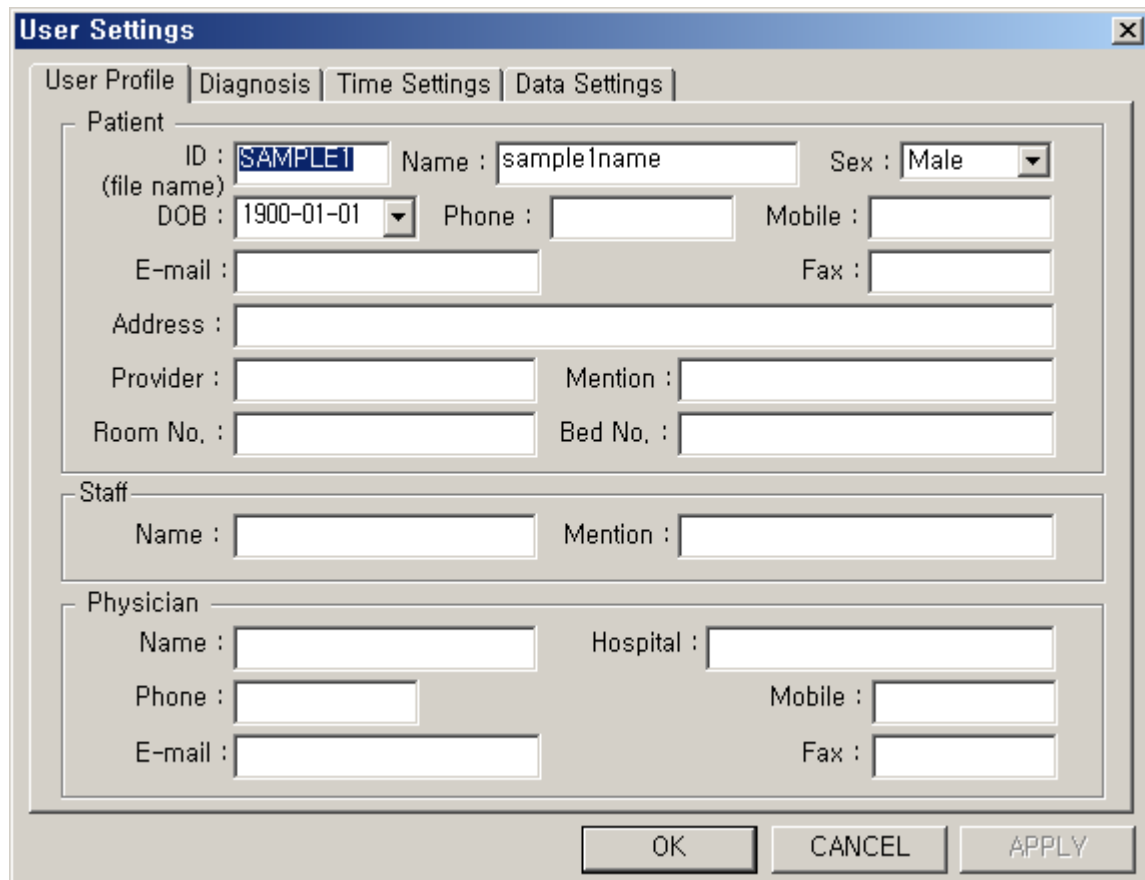
• User Profile

- Fill in the patient's and the physician's profiles

- Stores the data at the 'info' file.

>> Patient ID can be the file name of both 'gdt' and 'info.'

>> E-mail addresses can be used when the user commands 'Send E-mail'.

• Diagnosis

- Allows the physician to make treatment recommendations by email.

>> The physician sends the diagnosis to the patient by email, based on the

data downloaded from the meter.

- Time Settings

  - Here, you can set up the date and time displaying format and mealtime.

- Data Settings

  - You can set up the measuring unit, the temperature settings, icon

    settings and the target range.

※ Patient ID is the file name.

7.4 Help [Alt+H]

▶ About INFINITY^{TM} Communication Program [Alt+A]