





L21LMS1ENR0 Rev. 201203

Contents

Overview	04
Precautions	05
Usage	05
Requirements	07
Installing SD LipidoCare Lipid Management Program	09
Removing SD LipidoCare Lipid Management Program	15
Connecting with PC	18
Using SD LipidoCare Lipid Management Program	20
Data View	24
Settings	31



Overview

The SD LipidoCare Lipid Management Software program is a software program used to transfer blood lipid and glucose measurements from the measurement device to a PC.

Besides taking lipid and glucose measurements, the SD LipidoCare Lipid Management Software program can also be used to analyze the blood lipid and glucose measurements using various other software tools.

The information analyzed using the SD LipidoCare Lipid Management Software program can assist the user or healthcare provider in effectively managing blood lipid and levels.

The SD LipidoCare Lipid Management Software program provides the following functions.

- Transfer lipid and glucose measurements from the measuring device to a PC
- Electronic data can be used as a substitute for a log book
- Share user's results with a doctor

The SD LipidoCare Lipid Management Software program supports the following models manufactured by SD BIOSENSOR INC.

Description	Model No.	
SD LipidoCare Analyzer System	02LA10G	

Note: This software can be used in all models released since 02LA10G.

Precaution

The SD LipidoCare Lipid Management Software program should not be used for therapeutic and diagnostic purposes.

Please consult with a doctor before deciding on a course of action based on the results report produced from this product.

Do not measure blood lipid or glucose while the device is connected to a PC as there is risk of electrical shock.

Selected results cannot be transferred when results obtained from multiple persons are mixed together.

Usage

The SD LipidoCare Lipid Management Software is a software component for the following models.

SD LipidoCare Analyzer: Option

The SD LipidoCare Lipid Management Program transfers the measurement results from the device to a PC for effective management of the measurements.

The purpose of the SD LipidoCare Lipid Management Program is to allow general users or specialized medical personnel to effectively review, analyze and evaluate lipid and glucose measurements at home or in a medical facility.



Requirements

Requirements

The following are the system requirements to run SD LipidoCare Lipid Management Program.

- PC with at least 400MHz CPU. Does not support Mac
- More than 64MB of memory
- More than 14.2MB of HDD to run program
- -Microsoft Windows 95, 95SE, 98, 2000, ME, XP, Vista or Windows 7
 - : 32 bit operation system only
- 1024 x 768 or higher resolution
- Keyboard and mouse
- Additional requirements
- USB port to connect device
- Printer connected to Windows (when printing result report is required)



1. Double click "SD LMS Setup.exe" icon to install the software (Fig. 1)



<Fig. 1>

2. The "Installer Language" window will pop up (Fig. 2). Click the volume button to select your language. Click the "OK" button to install.



<Fig. 2>

Note: The software can only be installed in English or Korean.

3. The "Install SD LMS" window will appear (Fig. 3). Read the message and click "Next" to continue.



<Fig. 3>

4. The "End User Agreement" will appear (Fig. 4). Read carefully and click "I Agree" button if you agree with the agreement or click "Cancel" if you wish to terminate the install.





5. The "Select components" window will appear (Fig. 5). Select the components you want to install. Click the "Next" button to continue install. Otherwise click the "Cancel" button to terminate the install.



<Fig. 5>

The install program will run according to the components you wish to install (Fig. 5-1).

🐻 SD LMS Setup			
Choose Components Choose which features of SD LMS you want to install.	6		
Check the components you want to install and uncheck the components install. Click Next to continue.	you don't want to		
Select components to install: USB Driver MainSection VCREDIST_X86 VCREDIST_X86	ription on your mouse a component to s description.		
Space required: 3.9MB			
< Back Next	> Cancel	< Fig. 5-1 >	
212203 Driver Installer Droeram	n ^例 Microsoft .NET Framework 2.0 Setup	PL-2303 Driver Installe	- Program
Welcome Modily, repair, or remove the program.	Maintenance mode		Welcome to the InstallShield Wizard for PL-2303 USB-to-Serial
Welcome to the PL-2020 USEND Small Shape Mantemarce program. This program lets you modify the current relatations. Click one of the options below.	Select one of the options below: • Begint Repair Microsoft J&T Framework 2.0 to its original state.		The InstallShield Wizard will install PL-2303 USB-to-Serial on your computer. To continue, click Next.
Repair Remarked all program features installed by the previous setup. Second Remove all installed features. Remove all installed features.	O Uninstall Uninstal Microsoft : JET Pranswork 2.0 from this computer.		
ntalStrid	tint >	Gancel	< Back Next> Cancel

Note: Required components will be selected automatically and the installment process may differ based on the components you wish to install.

6. The "Select folder" window will appear (Fig. 6). Use the basic install folder or click the "Search" button to search for the folder where you wish to install the software. Click "Cancel" button to terminate install.

🐻 SD LMS Setup	
Choose Install Location Choose the folder in which to install SD LMS .	Ø
Setup will install SD LMS in the following folder. To install in a different folder, click and select another folder. Click Install to start the installation.	Browse
Destination Folder Existination Folder Browsee	a
Space required: 3.9MB Space available: 7.1GB Nullsoft Install System v2.46	
< <u>B</u> ack Install	Cancel

<Fig. 6>

7. Select a folder in the list and click the "OK" button (Fig. 7).

🐱 Browse For Folder	?×
Select the folder to install SD LMS in:	
Image: Second secon	
Make New Folder OK Car	ncel

<Fig. 7>

8. The 'Installing" window will appear (Fig. 8). Please wait while the SD LMS is installed.



9. The SD LMS has been installed.

Check the "Run SD LMS" and click "Complete" if you wish to run SD LMS.



<Fig. 9>



Removing SD LipidoCare Lipid Management Program

1. Select "Control Panel" in the Windows Start menu. Double click "Add/Remove Programs" (Fig. 10).



<Fig. 10>

2. "Add/Remove Programs" window will appear. Select "SD LMS" and click the "Change/Remove" button to remove the software (Fig. 11).



<Fig. 11>

Note: All data containing lipid and glucose measurements stored in the PC will be deleted permanently if you remove the SD LipidoCare Management Program from your PC.

Removing SD LipidoCare Lipid Management Program

3. The "SD LMS Uninstall" window will pop up (Fig. 12). Click the "OK" button if you really wish to remove the "SD LMS".

SD LMS	Uninstall
?	Are you sure to remove SD LMS ?
	Yes No
<fig. 12=""></fig.>	

4. The "SD LMS Uninstall" window will appear (Fig. 13). Click "OK".



<Fig. 13>

Note: All data containing lipid and glucose measurements stored in the PC will be deleted permanently if you remove the SD LipidoCare Management Program from your PC.





Connecting with PC

You have to connect the device as shown below with a PC before you download the measurements to a PC or configure the device.

- 1. Connect the data cable to the device's data port while the analyzer is turned off.
- 2. Connect the other side of the data cable to the USB port of the PC.
- 3. Run SD LipidoCare Lipid Management Program.



Note: The data cable is sold separately. Contact your regional retailer to purchase a data cable.



Starting software

Double click the price icon on the desktop of your PC to run the software. The main menu screen will appear.



Main menu / Functions of each button

Click the system icon on your PC's desktop or click the system icon in the Start menu to run the software and enter the main menu screen (Fig. 14).



Click the following buttons in the main menu to use each function.

Button	Function
1. Data View	Register a new user or manage previous user information. Also view glucose measurements through this menu.
	(See "Data View" in page 23)
2. Setting	Configure settings for the system, screen, printing, language etc. (See "Settings" on page 28)
3. Exit	Click this button to end program.

Ċ

How to download datas

Connect the cable to PC's desktop and press

to download datas. (fig 15)







DATA VIEW

SD LMS



BIOSENSOR, INC ID 1123 Hong Kil dong Hospital Name Name SD Hospital 40 Age Tested Date 2012-02-09 12:16 1972 • 17 • тс 280 mg/dL 7 Birth Height 180 .0 ΤG 235 mg/dL cm HDL 65 mg/dL Weight 74 .5 kg ¢ Male 🔘 Female non-HDL 215 mg/dL Gender EXIT LDL/HDL 2.58 YES No Smoke Treatment for Hypertension VES LDL 168 mg/dL 🔘 No Treatment for
 YES
 Diabetes 251 mg/dL GLU 🔘 No Sys 120 Blood Pressure 80 Dia Cable unplugged \$ <Fig. 16> A B User's personal information

User's measurements and results

Button	Function
1. Save file	Save registered user data.
2. Load file	Load saved data.
3. Preview	Preview report on SD LipidoCare's measurements for user.
4. Print	Print out report on SD LipioCare's measurements for user.
5. Clear	Delete registered data.



Data View

Click the button to open the Save File window where you can save the registered user data (Fig. 17).

O SD LMS						- ×		
BIOSENSOR, INC	1123			6				
			Use	r Information				
DATA VIEW	Name	Hong Kil d	long	Hospital Name	SD Hospital			
~~~~	Age	40		Tested Date	2012-02-09 12:16			
5 <b>010</b>	Birth	1972	FileSave		ł		? 🔀	
SETTING	Height	180	Save in:	🗀 UserData 💙	y 🖌 🖌 G	🤌 📂 🛄•		
	Weight	74	<b></b>	2011-10-24 AM 10 45 Hor	ng Gil Dong(1).txt ng Gil Dong.txt			
EXIT	Gender	Male	(C:) Local Disk					
	Smoke	• YES						
-	Treatment for Hypertension	YES	(D:) DVD Drive					
	Treatment for Diabetes	YES	2					
	Blood	Sys	Ť					
Cable unplugged	Flessure	Dia	B					
			Desktop					
			<b>S</b>	File name: 24-10-20	11 AM 10 45 Hong gil dong	<u> </u>	ave	< Fig. 17>
			My Network	save as gype: IXI File	[".6xt]		incei	3

Click the button to open the Load File window where you can load saved user data (Fig. 17).





A3C	40	Tested I	Date 2012-02-09 12:1	5				
Birth Height	1972 7 • 17	SD LIPIDOCAR SD Lipidocar	pidoCare	e Test	Report			
Weight	74 .5 r	kg				SD H	ospital 2012-03	2-09 오후 121
Gender	🖲 Male 💿 Female	User Information	Name Ho	ing Kil Dong		Height	180.0 cm	
Smoke	• YES ON0		Gender Ma	ale		Weight Blood Pressure	74.5 kg Svs: 120 / 1	Dia: 80
Treatment for Hypertension	● YES		Birth 19	72-07-18		Smoke	YES	
Treatment for Diabetes	• YES 💿 No	Tost Posult	mg/dL					
Blood	Sys 120	Testivesuit	Desirable	Borderline	High	Desirable	Borderline	High
Pressure	Dia 80		ERG ERG		280	01 10		235
			LEST .	200	240	1	50 200	
			0H0 65			đ		168
				60	40	-	10 160	
			#_ <b>_</b>	+	•			
			001 Oct		251			
			<u>ਰ</u>	100	125			
		Analysis Result	0	-	When you quit smokir	19		
			Y	Τ,	your blood vessel age When you treat hyper	( oo ) tension	18	1%
			68		your blood vessel age When you quit smokir	(61) ag and	10.	<b>T</b> /0
			$\sim$		treat hypertension your blood vessel age	(49)	> 10-Year Heart Normal:(3.9)	Risk %
			HeartAg	Je Pleas	e control steadily you	r blood		
				prooo	and and one officially		Ref, Framingh	
							-	am Heart Study
		Recommen	> Obesity: It makes to	tai cholesterol lev	el higher, and HDL Ch	iolesterol level lower		am Heart Study
		Recommen dations	<ul> <li>Obesity: It makes to</li> <li>Smoking: Smoking</li> </ul>	tal cholesterol lev makes Total Chol	el higher, and HDL Ch lesterol increasing, an	olesterol level lower d HDL Cholesterol d	ecreasing.	am Heart Sludy
		Recommen dations	<ul> <li>Obesity: It makes to</li> <li>Smoking: Smoking</li> <li>Avoid having oily fo mayonnaise.</li> </ul>	tal cholesterol lev makes Total Chol ods like bacon, hi	el higher, and HDL Cf lesterol increasing, an am, ice-cream, butter,	iolesterol level lower d HDL Cholesterol di lard, pizza, instant no	ecreasing. Iodles, cream bun,	am Heart Study agg yolks, and
		Recommen dations	<ul> <li>Obesity: It makes to</li> <li>Smoking: Smoking</li> <li>Avoid having oily for mayonnaise.</li> <li>Take the fibrous for pressure level and of</li> </ul>	tal cholesterol lev makes Total Chol iods like bacon, hi ids like vegetable cholesterol level le	el higher, and HDL Ch lesterol increasing, an am, ice-cream, butter, s, seaweed, fruits, mu ower.	iolesterol level lower d HDL Cholesterol di Ilard, pizza, instant no Illigrain foods, beans,	ecreasing. Iodles, cream bun, The fibers in these	am Heart Study agg yolks, and foods make bloc

<fig.< th=""><th>19&gt;</th></fig.<>	19>

	Category	Description
	1.Customer information	Provides user information including name, gender and age.
	2. Details	Blood test measurements are categorized into "Safe, Warning, Risk Group" visualized in color bar graphs and provides useful information on health and diet.
-	3. Analysis Result	It provides user's current Heart Age and incidence rate within next 10 years.
26	4. Recommendation	Provides probability of heart diseases for the next 10 years and precautions, and provides the user's current heart age in numerical value.



## Data View

Click the

button to view SD LipidoCare's results report (Fig. 20).



<Fig. 20>



① It shows user's current cardiovascular age based on Framingham Heart Study.

(2) LMS Report provide some brief tips to reduce user's blood vessel age.

③ It shows user's heart disease incidence rate within next 10 years.

#### **※** Framingham Heart Study

Since 1948, the Framingham Heart Study, under the direction of the National Heart, Lung and Blood Institute (NHLBI), formerly known as the National Heart Institute, has been committed to identifying the common factors or characteristics that contribute to cardiovascular disease (CVD). It have followed CVD development over a long period of time in three generations of participants.



< Fig. 21 >



## Data View

Click the button to delete the registered user data and input new user information (Fig. 22).

		formation		1	
Name	Hong Kil dong	Hospital	SD Hospital		
Age	40	Tested Date	2012-02-09 12-16	_	
Birth	1972 7 • 17 •	TC	280 mg	/dL	
Height	180 .0 cm	TG	235 mg	/dL	
Weight	74 .5 kg	HDL	65 mg	/dL	
Gender	🔹 Male 💿 Female	non-HDL	215 mg	/dL	
Smoke	• YES O No	LDL/HDL	2.58	_	
Treatment for Hypertension	• YES O No	LDL	168 mg.	/dL	
Treatment for Diabetes	. YES 💿 No	GLU	251 mg	/dL	
Blood	Sys 120				
Pressure	Dia 80				
	SD LMS		Ľ		
	SD LMS	1123	Ľ		
	SD LMS SD SD BIOSENSOR, INC	1123		User Information	
	SD LMS SD LMS BIOSENSOR, INC DATA VIEW	1123 Name		User Information Hospital Name	SD Hospital
	SD LMS SD SD BIOSENSOR, INC DATA VIEW COL	1123 Name Age		User Information Hospital Name Tested D	SD Hospital
	CO SD LMS	1123 Name Age Birth	2012 M • D	User Information Hospital Tested D TC	SD Hospital
	C SD LMS	1123 Name Age Birth Height	2012 M • D	User Information Hospital Tested D TC cm TG	SD Hospital
	SD LMS SD SD BIOSENSOR, INC DATA VIEW SETTING SETTING	1123 Name Age Birth Height Weight	2012 M · P	User Information Hospital Tested D Tested D TC cm Kg HDL	SD Hospital
	SETING EXT	1123 Name Age Birth Height Weight Gender	2012 M • D • • • •	User Information Hospital Name Tested D TC cm TG kg HDL non-HDL	SD Hospital
	SETTING EXIT	1123     Name     Age     Birth     Height     Weisht     Gender     Smoke     Trastnert fo	2012 M - D 	User Information Hospital Name Tested D TC cm Kg HDL non-HDL LDL/HDL LDL	SD Hospital
	O SD LMS EVENSOR, INC DATA VIEW SETTING EXIT	1123     1123     Name     Age     Birth     Height     Weight     Gender     Smoke     Treatment fo     Hypertensito     Treatment fo	2012 M • D • • • • • • • • • • • • • • • • • •	User Information User Information Tested D Tested D TC Cm Kg HDL non-HDL LDL/HDL LDL GLU	SD Hospital
	C SD LMS	1123     1123     Name     Age     Birth     Height     Gender     Smoke     Treatment fo     Hypertensior     Treatment fo     Hopertensior     Hopertensior     Treatment fo     Hopertensior     Treatment fo     Hopertensior     Treatment fo     Hopertensior     Treatment fo     Hopertensior     Hopertensior     Treatment fo     Hopertensior     Hopertensior     Hopertensior     Treatment fo     Hopertensior     Hopertensior     Treatment fo     Hopertensior     Hopertensi     Hopertensior     Hopertensior     Hopertensior     Hopertensi	2012 M • D • Male • YES • No • YES • No	User Information Hospital Tested D TC Cm Ka HDL non-HDL LDL/HDL LDL GLU	SD Hospital







				- *	
) 					
Hospital Na	me	Date Format	t I	Time Format	1
DEFAULT		YY/MM/DD ON YY/DD/MM OD	MM/DD/YY D/MM/YY	<ul> <li>12(AM/PM)</li> <li>24Hour</li> </ul>	
Auto Printing	Default Unit	Weight Form	nat I	Height format	
⊙ ON ⊚ OFF	⊚ mg/dL ⊚ mmol/L	◉ kg ⊘ pound	0	cm feet-inch	
Languag	e	Test report	background im	age	
English	-	DEFAL	JLT		-
Printer		Hospital Code	ID COD	E	
DEFAULT		S D B	000		- (

Category	Description
A	Save user's settings.
В	Load background image for results report.
С	Change measurement device's hospital code and ID code.



You can set the date, time and unit for the system in the Setting screen (Fig. 24).

					Ľ.	- ×
				2	3	
DATA VIEW	Hospital Nam	e	Date	Format	Time Format	
	DEFAULT	5	<ul> <li>YY/MM/DD</li> <li>YY/DD/MM</li> </ul>		12(AM/PM)     7	
SETTING	Auto Printing	Default Unit	Weig	ht Format	Height format	
EXIT	ON OFF	⊚ mg/dL ⊘ mmol/L	⊚ kg ⊘ pour	ıd	⊚ cm ⊘ feet-inch	
	Language		Test	report backgroun	d image	
	English			DEFAULT		
	Printer		Hospital Co	nde ID	CODE	
able unplugged	DEFAULT	•	S D	B 0	001	Q
						<fig. 2<="" td=""></fig.>

Note: This system setting is applied only to the SD Lipid Management Program. It will not affect the settings of the analyzer



1 Hospital name

(3) Time format

(4) Automatic printing

Input name of hospital. (Fig. 25).

Hospital Name DEFAULT

< Fig. 25>

(2) Date format Select from 4 formats for year, month and day (Fig. 26)

Salast from 4 formats for your month and day	Dat	e Format
(Fig. 26)	<ul> <li>YY/MM/DD</li> <li>YY/DD/MM</li> </ul>	<ul> <li>MM/DD/YY</li> <li>DD/MM/YY</li> </ul>
		<fig. 26=""></fig.>
Time format Select either a 12-hour (AM/PM) or 24-hour format		Time Format
(Fig. 27)		<ul> <li>12(AM/PM)</li> <li>24Hour</li> </ul>
		<fig. 27=""></fig.>
Automatic printing Select either "Yes" or "No". (Fig. 28)		Auto Printing

Note: If choosing "On" for Auto-printing and click "Power button", all data's will be saved to the computer and printed out automatically.

< Fig. 28>

OFF

(5) Basic unit Select either mg/dL or mmol/L as the basic unit. (Fig. 29)

Default Unit



⁽⁶⁾ Weight format Weight Format Select either "kg" or "pound". (Fig. 30). 💿 kg 🔘 pound < Fig. 30> (7) Height format Height format Select either "cm" or "feet-inch". (Fig. 31). o cm feet-inch < Fig. 31> (8) Language Language Click the icon and select your language from the list. (Fig. 32) English ~ < Fig. 32> (9) Background image for results report Test report background image Select a background image. (Fig. 33) DEFAULT < Fig. 33> icon to load a file. Click the Look jn: 🗀 bgFiles 💌 🔇 🤌 📂 🔜 -💼 defaultbg.jpg 💼 movie.jpg (C:) Local Disk (D:) DVD Driv ł B Deskto File name: ~ <u>O</u>pen

My Ne

Files of type

JPG files (*.jpg)

~

Cancel



#### 10 Printer

Click the icon and select your printer from the list. (Fig. 34)

	Printer	
Microso	ft XPS Document Writer	•

<Fig. 34>

(1) Hospital code  $\cdot$  ID code ID CODE Hospital Code You can set the ID code to separate A....Ø multiple users who use the software. S D В 0001 <Fig. 35> icon to Click the

change the anlyzer's hospital code and ID code.





12

Save user settings.

Change and save the above settings. (Fig. 36)

SD NSOR, INC					
	B				
AVIEW	Hospital N	ame	Date Format	Time Format	
-	DEFAUL	T	YY/MM/DD	<ul> <li>12(AM/PM)</li> <li>24Hour</li> </ul>	
TING	Auto Printing	Default Unit	Weight Format	Height format	
<b>G</b> ≫	<ul><li>○ ON</li><li>● OFF</li></ul>	● mg/dL mmol/L	<ul><li>● kg</li><li>⑦ pound</li></ul>	⊚ cm ⊘ feet-inch	
	Languag	je	Test report backgro	und image	
1	English	•	DEFAULT		
$(\mathbf{i})$	Printer		Hospital Code	ID CODE	
unplugged	DEFAULT		S D B	0001	
	4				



